



Creative Multimedia Kit



QR to the 'Gram'



B2022xxxx

Generating...

98%



Warning:

May contain small parts
of big dreams.



www.instagram.com/theportfolio.utbcc

An Insight to Creative Computing Capstone Projects

THE PORTFOLIO

2025

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Made in UTB

Generative AI



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*"Be proud of what you have achieved.
keep believing in the joy of why you chose
Creative Computing."*

OPENING REMARKS

Welcome to another year of celebrating the achievements of our students from the School of Computing and Informatics, Universiti Teknologi Brunei (UTB). This has been a memorable year for the Creative Computing programme area, as our graduating cohort will be the last group of students to complete the BSc. (Hons) in Creative Multimedia. Seventeen students will be walking up the stage on Convocation Day to receive their bachelor's certificates. I believe this piece of paper is only a small part of their reward for completing the degree.

They have shown great dedication and hard work over the last three years, shaping their character into strong and committed individuals.

They have made friends along the way that may last a lifetime, including friends among their peers and friends among the academics.

They have shown creativity in problem-solving when completing assignments and Capstone Projects, equipping themselves with skills that would carry them forward in the real world. This is their reward.

To further celebrate the students' achievements, we are pleased to present this year's edition of 'The Portfolio' digital magazine, from the School of Computing and Informatics, UTB, which features students' work undertaken for their Capstone Projects. For the Capstone Project, students have worked with various local organisations, such as McDonald's and Pusat Sejarah Brunei, as well as with the international university Universiti Teknologi MARA (UiTM), Malaysia. As you explore the pages in this magazine, you will have the opportunity to catch a glimpse of the capabilities of our students and the many interesting projects they have undertaken.

To the Creative Computing graduates of 2025, be proud of what you have achieved. Always remember that completing your degree is just one step in a long journey. Keep on marching with your head held high and your feet grounded. Keep believing in the joy of why you chose Creative Computing. Use what you have gained over the years to create a better community.

PG DR. HAJI AZHAN BIN PG HAJI AHMAD

Programme Leader Creative Computing
School of Computing & Informatics
Universiti Teknologi Brunei

"We built more than projects; we built bonds that will last well beyond university."

“

الْحَمْدُ لِلَّهِ

FOREWORD

Congratulations to all my fellow graduates of the Creative Computing Capstone Project cohort of 2025. Looking back, it is incredible to see how far we have come from those first days of nervous introductions to this proud moment of accomplishment. I am deeply proud of each and every one of us.

These past few years have been more than lessons and projects. They have been filled with laughter, challenges, late nights, and endless support. We have shared ideas, lifted each other through setbacks, and celebrated every small victory along the way. It is this sense of community and friendship that made the journey truly meaningful.

As the second intake of the Capstone Project, we built on what the first cohort started and shaped it into something uniquely ours. Our time here unfolded alongside one of the most transformative shifts in creative technology. During our first year, tools such as ChatGPT began to emerge, offering new ways to explore ideas and approach creative challenges. While these technologies provided helpful perspectives at certain stages, the core of our work remained driven by our own thinking, imagination, and collaboration. Through this experience, we learned that tools could support and enhance creativity, but the true innovation

The Capstone Project challenged us to go beyond textbooks and classrooms, to face real problems and deliver real solutions for real clients. It taught us resilience, professionalism, and the ability to adapt in an ever-evolving world. These lessons will remain with us long after this chapter closes.

To our lecturers and supervisors, thank you for your patience, guidance, and belief in us. To my friends and teammates, thank you for the memories, the teamwork, and the encouragement when things became difficult. We built more than projects; we built bonds that will last well beyond university.

As Allah says in the Quran:

فَإِنَّ مَعَ الْعُسْرِ يُسْرًا إِنَّ مَعَ الْعُسْرِ يُسْرًا

[Surah Al-Inshirah 94:5-6]

"Indeed, with hardship [will be] ease. Indeed, with hardship [will be] ease."

مُحَمَّدُ

MUHAMMAD ZAKWAN BIN HJ ZUNAIDI

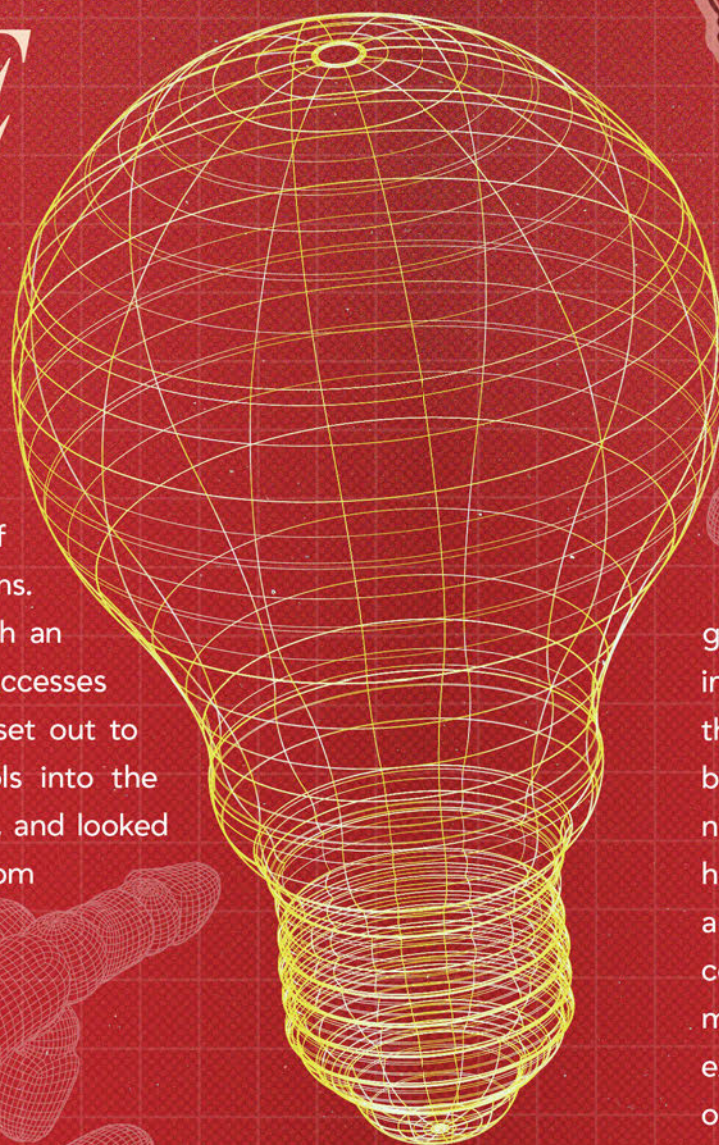
BSc. (Hons) in Creative Multimedia
Creative Computing
School of Computing and Informatics
Universiti Teknologi Brunei



PREFACE



We are the second intake to undertake the Capstone Project, inheriting a framework that challenged us to merge creativity, technology, and real-world problem solving. For us, the Capstone Project was more than a requirement at the end of our studies. It became the defining chapter of our journey, a space where lessons from three years of learning finally met the realities of industry expectations. Being the second intake to walk this path gave us both an advantage and a responsibility. We learned from the successes and challenges of the pioneering cohort, but we also set out to make the experience our own. We brought new tools into the process, experimented with fresh ways of collaborating, and looked for opportunities to push our ideas beyond the classroom into solutions that could make a tangible impact.

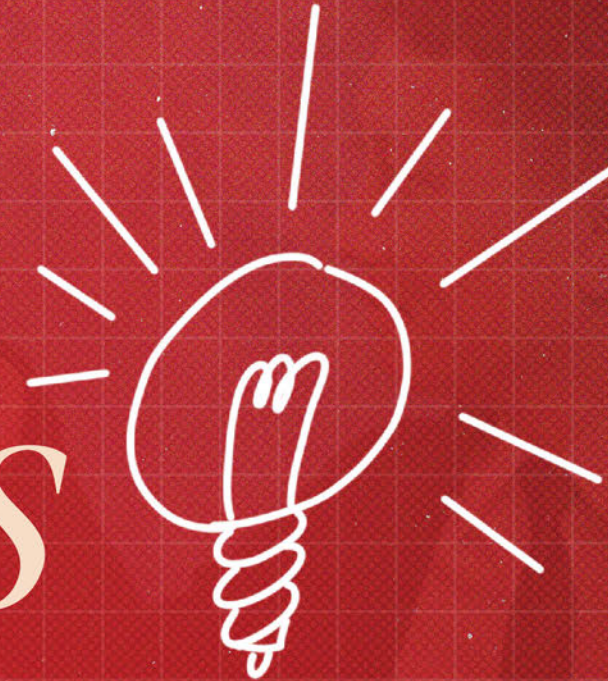


Our journey began in 2022, the same year tools like ChatGPT were introduced to the world. By the time we graduated in 2025, AI had become an increasing part of the creative landscape.

We observed how these technologies could support idea generation, research, and refinement, while also recognising the importance of grounding our work in our own imagination and critical thinking. AI did not define our process but rather served as a backdrop to our time in the Capstone Project. It reminded us that new tools will always emerge and that the real skill lies in knowing how to use them thoughtfully, balancing innovation with originality and efficiency with authenticity. This was also the year when the conversation about ethics, originality, and responsible use of AI moved to the centre of creative practice. We learned not only to experiment with new technologies but also to question their role in our work and to ensure that what we created reflected our own voices and values. This magazine captures that moment. It is a reflection of a cohort who embraced change, built on what came before, and left our own mark on what the Capstone Project can be. It is also a thank you to our mentors, peers, and industry partners who walked this journey with us, and an invitation for you to see what the next generation of creatives is ready to bring to the world.



CREATIVE COMPUTING LECTURERS



AZHANAHMAD
PG DR. HAJI AZHAN BIN PG HJ AHMAD

Programme Leader, Research Leader for
Digital & Creativity Research Thrust



<https://bit.ly/AzhanAhmad>

SPECIALIZED AREA

End-User Development
Technology-Enhanced Learning
Serious Games



IBRAHIM EDRIS

IBRAHIM BIN DRIS/EDRIS

Lecturer



SPECIALIZED AREA

Artificial Intelligence
Autonomous Agents
Game Developments
Social Intelligence
Virtual and Augmented Reality

<https://bit.ly/IbrahimEdris>



DEENINA SALLEH

NOOR DEENINA BINTI HAJI MD SALLEH

Lecturer



SPECIALIZED AREA

Visual Experience
Emotional Design

<https://bit.ly/DeeninaSalleh>



AHMAD ELAKLOUK

DR. AHMAD M. S. ELAKLOUK

Assistant Professor



SPECIALIZED AREA

Multimedia Technology & HCI
Serious Games Designs and
Developments for Learning and
Training Edutainment System
Design Science
Game-based Rehabilitation

<https://bit.ly/AhmadElaklouk>



IDHAM MASHUD

HAJI IDHAM MASWADI BIN HAJI MASHUD

Lecturer

SPECIALIZED AREA

Visual Communication
Interface Design

Creative Multimedia CLASS OF 2025



This page is dedicated to the Creative Multimedia Class of 2025, a group of diverse individuals who have grown, learned, and innovated together throughout the programme. Each member brings unique strengths and perspectives, and together we have built a supportive community shaped by collaboration, resilience, and creativity.

Beyond academic achievements, this page reflects the friendships, teamwork, and shared experiences that define our journey. It captures the spirit of who we are as a cohort, not just classmates but a family who has encouraged, challenged, and inspired one another along the way.

UNI VIBES



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QALIF JAMALUDDIN
B20220265



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AKMAL DANIAL
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HASBOL WAFI
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ZAKWAN ZUNAI
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ASHIKIN SIMAT
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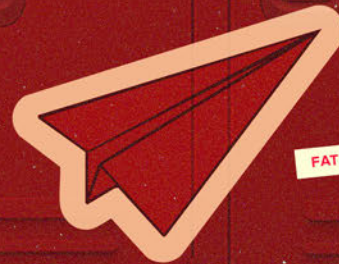


IQMAL YUSRI
B20220421

BRUNEI ENERGY HUB



01



FATIN FARIDA

AKMAL DANIAL

'ARIEF





AKMAL DANIAL

AKMAL DANIAL BIN HAMID

BSc(Hons) in Creative Multimedia

"This uni life tested my skills, and resilience, but after all the struggles and sacrifices, I've finally achieved my checkmate."

ABOUT ME

Hi! I'm Akmal Danial, a passionate and creative individual with a strong interest in design, technology, and innovation. I enjoy turning ideas into exciting projects that not only capture attention but also provide meaningful experiences. For me, design is not just for its aesthetics but it is about solving problems, telling stories, and leaving a lasting impression through impactful work.

I thrive in collaborative environments where I can share experiences, exchange ideas, and continue learning alongside others. Teamwork is important to me as it allows me to contribute my abilities while also being inspired by the people around me. Every interaction becomes an opportunity to learn something new, gain fresh perspectives, and refine my approach to challenges. I welcome opportunities that encourage me to think creatively, push boundaries, and grow both personally and professionally as I continue my journey in the world of design and technology.



AUGMENTED REALITY (AR) APPLICATIONS DEVELOPMENT

Project Synopsis

This project is developed to create an engaging Augmented Reality (AR) Applications. The AR experience transforms static images into immersive, interactive 3D visuals that capture users attention and spark curiosity. By introducing AR elements that bring renewable energy concepts to life, the project aims to make learning more vivid and memorable, allowing visitors to gain a deeper understanding of sustainable energy solutions through direct interaction. The main goal of this project is to enhance the visual presentation of the Energy Lab's exhibits and provide visitors with a hands-on experience using AR technology. By blending physical displays with digital content, the system gives users the opportunity to explore 3D models and animations that clarify complex ideas. The project also seeks to ensure that the AR system is intuitive, accessible, and engaging for visitors of all ages, supporting the Energy Hub's mission to inspire greater awareness about renewable energy and future technologies.

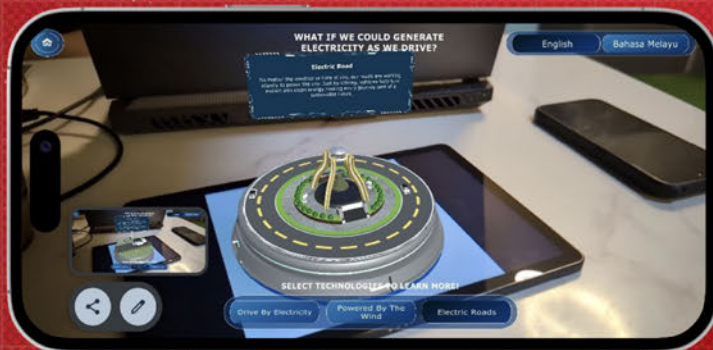
Reflection

Working on this AR project has been an eye-opening and rewarding experience. Developing an interactive AR system for the Brunei Energy Hub has allowed me to apply my technical skills in Unity and Blender while also sharpening my abilities in UI/UX design and visual storytelling. One of the key lessons from this project was the importance of balancing creativity with practicality. I had to ensure that the AR visuals were not only

appealing but also clear and user-friendly for visitors of all ages.

This project has strengthened my problem-solving skills, taught me to adapt when facing technical challenges, and given me greater confidence in creating interactive experiences that combine design

and technology. I feel proud to have contributed to something that may help educate and inspire others about renewable energy and the future of sustainable solutions.



AUGMENTED REALITY APPLICATION OUR FUTURE: OUR EYES ON TOMORROW



OVERVIEW

This project focuses on the development of three(3) Augmented Reality (AR) applications for Gallery 3(Energy Lab) at the Brunei Energy Hub Dermaga Diraja. Each AR app presents an interactive learning experience centered around renewable energy concepts to enhance public awareness and engagement with Brunei's sustainable future.

AIM

To develop an intuitive and engaging AR application that educates users about Brunei's renewable energy future.

OBJECTIVES

- Design a friendly, intuitive UI suitable for all ages
- Improve user engagement through 3D models
- Support Educational Goals of Brunei Energy Hub.
- Incorporate Brunei's local landmarks into AR scenes to enhance cultural relevance

TARGET AUDIENCE



- General Public / Casual Visitors
- Families with Children
- Tourists
- Students
- Educational Stakeholders

MAJOR PHASES



PROBLEM STATEMENTS

The current AR system in Gallery 3 is difficult to use, lacking essential features such as a language selection menu on the first page. The interface is visually unengaging, and the 3D models are fixed in position, preventing user interaction. It also lacks sound effects, which reduces immersion.

PROPOSED SOLUTION

Developing a new Augmented Reality (AR) application that is more interactive, and visually enhanced. This solution is specifically designed to educate and engage visitors on Brunei's renewable energy initiatives.

DISCUSSION

The results from our user testing feedback clearly show that the AR app was successful in increasing engagement and understanding. A majority of users (76%) reported feeling very engaged while using the app, and 84% preferred the hands-on experience over the previous static setup. This highlights the effectiveness of making the AR interactive and user-controlled. Additionally, 72% of participants said the 3D models helped them better understand the renewable energy concepts presented. These findings confirm that our design choices such as visual animations, and an intuitive layout positively impacted the learning experience.

CONCLUSION

This AR project enhances Gallery 3 at the Brunei Energy Hub by providing an interactive, educational, and AR experience focused on Brunei's renewable energy future. Featuring three(3) AR App:

1. Recyclable Energy
2. Electric Roads
3. Quick Recharge

These app engages visitors of all ages through animated 3D models. Designed for ease of use and local maintenance, it offers a sustainable alternative to the current AR setup and supports the Hub's goal of promoting energy awareness through innovation.

IMAGE TARGETS



Electric Roads



Recyclable Energy



Quick Recharge

TOOLS USED



Designing



Modelling



Developing & Deploying

Supervisors: Sir Ibrahim & Dr Azhan

Akmal Danial Bin Hamid (B20220136) Bachelor of Science in Creative Multimedia



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AKMALUL 'ARIEF



MD AKMALUL 'ARIEF BIN DSP HJ MD IRWAN

BSc (Hons) in Creative Multimedia

*"Noted. Because screaming internally
for three years doesn't fit in this book."*

ABOUT ME

My name is Muhammad Akmalul 'Arief Bin Dato Seri Pahlawan Hj Mohammad Irwan, and I am currently a Creative Multimedia student with a strong passion for 3D modelling and animation. I enjoy immersing myself in creative projects, particularly those that involve building interactive designs and transforming ideas into engaging visual experiences.

I am especially drawn to the way art and technology can be combined, as this allows me to explore different forms of media and discover new approaches to storytelling and design. Through this process, I am able to constantly develop and refine my skills, ensuring that I continue to grow as both an artist and a multimedia creator.



AUGMENTED REALITY (AR) APPLICATIONS DEVELOPMENT

Project Synopsis

This project introduces an engaging Augmented Reality (AR) Application where the AR experience highlights immersive and interactive 3D visuals that capture users' attention. The project aims to make learning more effective and memorable by implementing the AR elements that bring renewable energy concepts to life. Therefore, visitors can gain a deeper understanding of sustainable energy solutions through direct interaction. The primary objective of this project is to enhance the visual presentation of the Brunei Energy Hub Dermaga Diraja exhibits in Gallery 3 and provide visitors with a hands-on experience utilizing AR technology. The system gives users the opportunity to explore 3D models and animations that clarify complex ideas. The project also seeks to ensure that the AR system is intuitive, accessible, and engaging for visitors of all ages, supporting the mission of Brunei Energy Hub Dermaga Diraja to inspire greater awareness about renewable energy and future technologies.

Reflection

Working at the Energy Hub Dermaga Diraja has taught me the importance of working professionally. I have learnt the value of creativity, team bonding, and collaboration. I gained many valuable lessons while working on the AR app and developed skills in adapting to challenges, including problem-solving, technical abilities, and creative thinking. Additionally, the development of the AR app has enhanced my animation skills, including maintaining device performance, and applying keyframing, timing, and motion path techniques.

I am proud of my team and the achievements we earned developing this app together. This project has demonstrated the potential of AR to be adapted as an impactful tourism experience.



Muhammad Akmalul 'Arief bin Dato Seri Pahlawan HJ Mohd Irwan
B20220400

AUGMENTED REALITY

OUR FUTURE: OUR EYES ON TOMORROW

Abstract

The research of this project is to develop an interactive, informative and engaging Augmented Reality (AR) for a place of attraction to attract visitors to try the hands-on interaction of renewable energy, electric roads and quick recharge. The interactive AR aims to provide visitors with engaging knowledge of energy sustainability and introduce Augmented Reality to Brunei as AR is rarely being applied.

Introduction

Augmented Reality is a topic rarely talked about. It is such an engaging creative medium that comes to life through 3D animations. The goal of the Augmented Reality (AR) is to educate, inspire individuals to adopt sustainable habits by showcasing demonstrations of green technologies. Moreover, experience our Augmented Reality application in the Brunei Energy Hub Dermaga Diraja.

Objectives

- To present an educational demonstration through accurate/understandable animation
- Engage visitors through interactive animations
- Showcase environmental awareness



Methods

The 3D models for the AR are replaced with more elaborate designs and educational animations in order to provide a more interactive and dynamic experience. To add greater visual complexity and realistic textures will make the content more immersive and visually appealing. With the presentation of various views and giving users the ability to control the view, the experience will be more dynamic and interactive.

Problem Statement

These are the problems in Brunei Energy Hub Dermaga Diraja:

Angles don't seem to change in each device. Defeating the purpose of the main aspect of augmented reality, which requires exploration from all angles.

Some models for Quick Recharge are too simple and the animations can be improved.

Discussion

Usability testing provided valuable insights into user experiences with the AR application, highlighting both its strengths and areas for improvement. Participants generally praised the app's interactive features and educational value, particularly its ability to visualize complex concepts through 3D models. However, several key themes emerged from the feedback that can guide future development.

Augmented Reality

Augmented Reality works by acquiring a camera and image target. The image target has to be processed and identified in Vuforia. The colors, contrast, shapes and symmetry will be tested to achieve a working image target.

UTB Supervisors:
Dr ahmad elaklout
Ibrahim edris





FATIN ASRI



FATIN FARIDA BINTI HAJI ASRI

BSc(Hons) in Creative Multimedia

*"Is this diploma due at 11.59pm too? Oops, force of habit.
Mastered the art of last-minute miracles and somehow graduated."*

ABOUT ME

My name is Fatin Farida binti Haji Asri, commonly known as Fatin. I am 26 years old and have been in the Multimedia industry for 8 years, starting at IBTE, Politeknik Brunei and UTB. I always have a strong passion for all areas of multimedia, especially photography, videography, graphic design, animation, and 3D modeling. I also enjoy combining creativity with technology to bring ideas to life through compelling visuals and interactive content.

With skills in Adobe Premiere Pro, Illustrator, Photoshop, Blender, and Unity, I am continuously learning and growing as a multimedia designer, driven by curiosity, creativity, and a love for digital storytelling.



AUGMENTED REALITY (AR) APPLICATIONS DEVELOPMENT

Project Synopsis

This project showcases a captivating Augmented Reality (AR) application that draws users in with its immersive and interactive 3D images. Through the use of AR components that give concepts related to renewable energy life, the project seeks to improve learning effectiveness and retention. As a result, through face-to-face engagement, visitors may learn more about sustainable energy options.

Enhancing the visual presentation of the Brunei Energy Hub Dermaga Diraja exhibits in Gallery 3 and providing visitors with a hands-on experience using AR technology are the main goals of this project. Users can investigate 3D models and animations that make difficult concepts easier to understand thanks to the technology. Additionally, the initiative aims to make the AR system user-friendly, accessible, and interesting for visitors of all ages.


Reflection

Working on this AR project has been a valuable learning experience, combining technical skills with creative problem solving. Through collaboration, the team successfully integrated Blender for 3D modeling and Unity with Vuforia for the AR environment. I have gained more knowledge in 3D modeling using Blender and also learned how to animate within Unity, which has expanded my skill set significantly. One of the main challenges was optimizing performance while ensuring visual quality, especially with limited platform support.



This project highlighted the potential of AR in educational spaces and emphasized the importance of teamwork, adaptability, and user-centered design in developing impactful digital experiences.

PATIN FARIDA HAJI ASRI (020220369)



AUGMENTED REALITY

OUR FUTURE: OUR EYES ON TOMORROW

ABSTRACT

This project presents an AR application for Gallery 3 at the Brunei Energy Hub, using 3D models to educate the public on sustainable energy. Built with Blender, Unity, and Vuforia, it highlights AR's role in promoting interactive learning and sustainability awareness.


PROBLEM STATEMENT

The AR app at Brunei Energy Hub aims to provide interactive learning but faces issues like unclear language selection, static models, dull visuals, a confusing interface, and lack of sound—reducing user engagement and overall experience.

3D MODEL & ANIMATION

I created the 3D models using Blender, drawing inspiration from sources like dioramas on Google, Pinterest, and local locations. Some models were also sourced from BlenderKit. After modeling, I exported the assets to Unity, where Vuforia is installed. In Unity, I applied AR image targets and added animations using Unity's built-in tools.


IMAGE TARGETS



RECYCLABLE ENERGY







QUICK RECHARGE



ELECTRIC ROADS

TOOLS USED

INTRODUCTION

This project involves creating an Augmented Reality (AR) experience for the Brunei Energy Hub, covering its concept, design, and implementation. It outlines the problem, objectives, and methods used. The report also highlights key design features, local elements, and technology used to create an engaging and immersive experience.

PROPOSED SOLUTION

To enhance the AR experience at the Brunei Energy Hub, improvements include adding clear language selection (Bahasa Melayu and English), a redesigned user-friendly interface, and upgraded 360° AR models with better textures, zoom, and smoother performance. These changes aim to make the experience more engaging and accessible for all visitors.


DISCUSSION

Usability testing showed that users found the AR app engaging, educational, and easy to use. Language selection and interactive 3D models were especially appreciated. Suggestions for improvement included adding audio, better UI for mobile, and more content. Overall, the app has strong potential, with feedback guiding future enhancements to boost learning and user experience.

CONCLUSION

The AR app was effective and well-received, though limited by time, small sample size, and device issues. Challenges were addressed with simpler models and Unity fixes. Users suggested voiceovers, gamification, better tracking, and improved mobile UI for a richer experience.

UTB SUPERVISOR:
DR. AHMAD M S ELAKLOUK & IBRAHIM EDRI



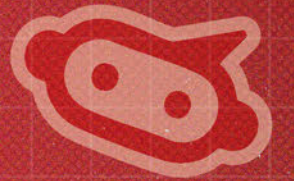
Final Report

HOST SUPERVISOR:
NORIDA EMELA BINTI ABDULLAH & FRANCIS EMELA BRANDWIJK





QALIF JAMALUDIN



ABDUL QALIF BIN HAJI JAMALUDIN

BSc(Hons) in Creative Multimedia

"Thanks ChatGPT, I couldn't have done it without you!"

ABOUT ME

Hi! My name is Qalif. I am a creative designer and web designer with a passion for blending aesthetics and functionality into purposeful digital experiences. With a Bachelor's degree in Creative Multimedia, I specialize in crafting designs that are visually engaging while remaining intuitive and user-friendly. My work is driven by the belief that great design is more than just decoration, it's a strategic tool that communicates ideas, solves problems, and connects people to the content they need. My experience includes rebranding and developing websites under real-world constraints, such as redesigning the Department of Labour's website using SharePoint Designer within strict EGNC/MOHA guidelines. These projects strengthened my ability to work within technical limitations while still delivering professional, accessible, and visually appealing results. Whether designing for government, corporate, or creative projects, I prioritize clarity, consistency, and user-centered design principles to ensure that every element serves a purpose.

Beyond web design, I bring a versatile creative approach that extends into visual storytelling, brand identity, and community-focused concepts. From developing engaging layouts to enhancing user experiences, I strive to create designs that are both impactful and timeless. Every project I take on is an opportunity to merge creativity with practicality, delivering solutions that not only look good but work seamlessly for the people who use them.



REBRANDING DEPARTMENT OF LABOR'S WEBSITE

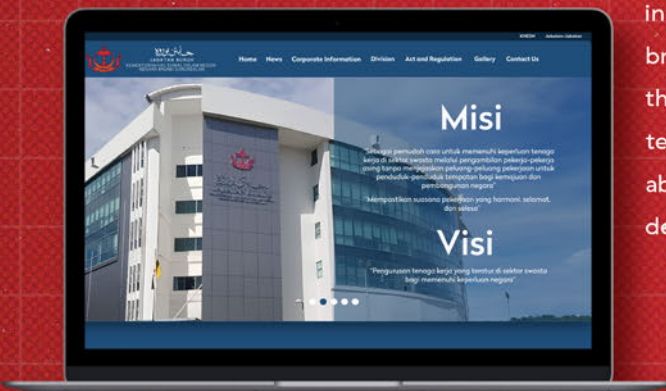
Project Synopsis

The rebranding of the Department of Labour's website focused on enhancing visual design, usability, and accessibility while adhering to EGNC/MOHA regulations. The project began with a thorough analysis of the existing website, identifying issues such as outdated layouts, inconsistent typography, and unclear navigation. Using SharePoint Designer, the site was restructured with a clear hierarchy, consistent visual elements, and improved accessibility features, including better colour contrast, readable fonts, and responsive design across devices. Content presentation and navigation were streamlined to make information easier to find and interactions more intuitive. The final result balances compliance with government standards and modern design principles, delivering a more professional, user-friendly, and accessible digital experience for all stakeholders.

Reflection

This project provided an invaluable opportunity to apply creative and technical skills in a real-world government context. Working under the constraints of EGNC/MOHA regulations and using SharePoint Designer presented unique challenges, particularly with limited software flexibility and slower system performance. These challenges required problem-solving, patience, and adaptability, as every design decision had to balance innovation with regulatory compliance. Through the process, I gained a deeper understanding of user-centered design principles and the importance of accessibility in public-facing websites. The project reinforced the significance of clear communication and attention to detail, especially

in environments where design choices have broader organizational implications. Overall, the rebranding project not only enhanced my technical proficiency but also strengthened my ability to navigate professional constraints while delivering impactful design solutions.





REBRANDING DEPARTMENT OF LABOUR'S WEBSITE

Abdul Qalif bin Haji Jamaludin (B20220265)
BSc in Creative Multimedia
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Abstract

This project aims to rebrand and modernize the Department of Labour (DOL) website in Brunei Darussalam. The current site suffers from poor usability, outdated visuals, and limited accessibility. Due to constraints from EGNC/MOHA, the development must use SharePoint Designer, presenting technical challenges. The project employs user-centered design principles, wireframe prototyping with Adobe XD, and accessibility audits to improve user experience. Where full SharePoint development is impractical, a backup strategy of delivering UI/UX templates to the government will ensure the project's continuity and sustainability.

Introduction

Context

The Department of Labour provides essential services like job facilitation and labour law enforcement. However, its digital presence does not align with its public service mission.

Problem Statement

The current website features outdated design, weak navigation, lack of accessibility, and poor brand representation.

Objectives

- Improve user interface and navigation
- Ensure WCAG 2.1 accessibility compliance
- Align website branding with DOL values
- Develop a usable design within SharePoint limitations

Methodology

```

graph TD
    A[Requirement Analysis] --> B[Stakeholder Meetings]
    B --> C[UI Design in Adobe XD]
    C --> D[SharePoint Designer Prototyping]
    D --> E[Feedback & Iteration]
  
```

Findings/Results

Issue Identified	Proposed Solution
• Outdated Interface	• Modern, clean, responsive layout
• Inefficient Navigation	• Restructured sitemap and menus
• Accessibility Gaps	• Implement WCAG 2.1 standards
• No Feedback Tool	• Add user feedback & FAQ modules

Discussion

The learning curve of SharePoint Designer has slowed progress, but contingency planning (alternative UI delivery) has ensured project viability. Stakeholder consultations validated the need for bilingual support, clean navigation, and mobile responsiveness. Technical constraints inspired creative design compromises and innovative content structuring.

Key Results

- Completed preliminary wireframes
- Government email acquired (Week 7)
- SharePoint Designer workflow in progress
- Backup UI templates prepared

Tools Used





Figma : UI/UX prototyping
EGNC : Government email access
SharePoint Designer : Development platform

Conclusion

The rebranding initiative is on track, balancing creativity with practical constraints. The project's key contributions include:

- A scalable, accessible, and user-centered web design
- A practical workflow for constrained government tech environments
- Strategic adaptability through backup design documentation

References

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Acknowledgement

Special thanks to my supervisors, the Department of Labour, and Universiti Teknologi Brunei for their support and guidance throughout this project.





HAJI IZZAT IHTISYAM



HAJI IZZAT IHTISYAM BIN HAJI SHAMEON

BSc(Hons) in Creative Multimedia

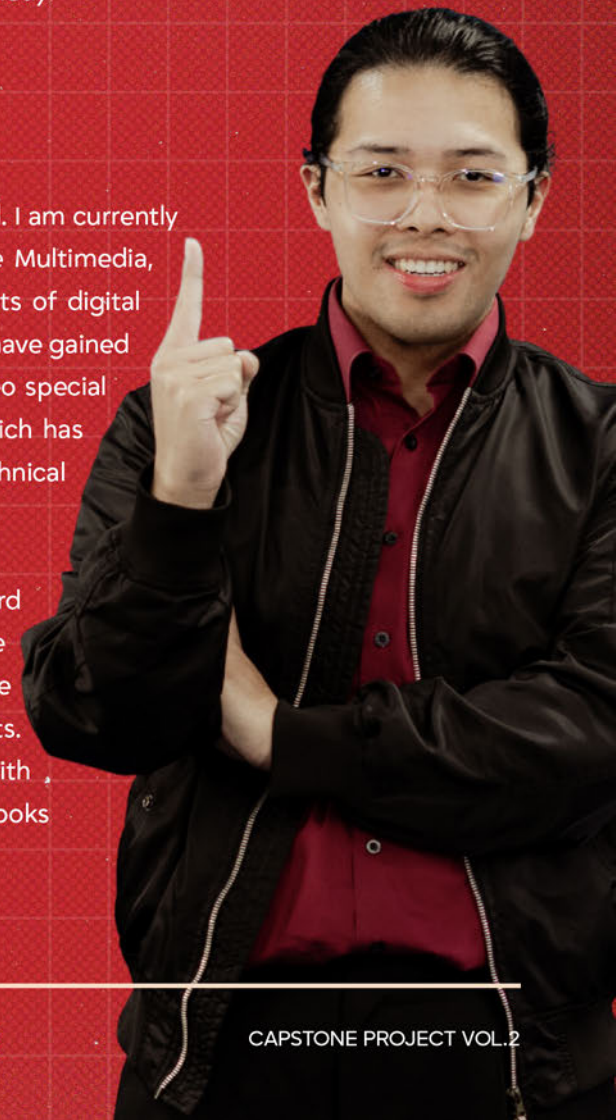
"Every accomplishment starts with the decision to try."

— John F. Kennedy

ABOUT ME

My name is Haji Izzat Ihtisyam, and I am 22 years old. I am currently a third-year student pursuing a degree in Creative Multimedia, where I have been able to explore different aspects of digital media and design. Over the course of my studies, I have gained valuable experience in 2D game development, video special effects (SFX), video editing, and poster design, which has allowed me to strengthen both my creative and technical skills.

I am proficient in using a variety of industry-standard software, including Unity, Adobe Illustrator, Premiere Pro, and After Effects—tools that have supported me in producing engaging and visually appealing projects. Through my work, I strive to combine creativity with functionality, ensuring that each project not only looks good but also communicates effectively.



BIG MAC MATCH-UP!

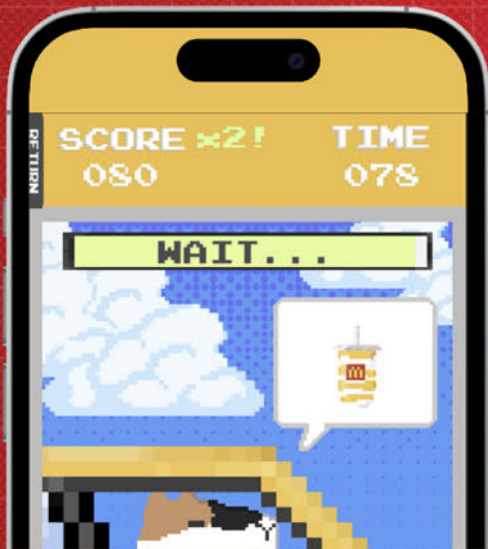
Project Synopsis

The "Big Mac Match-Up!" project was developed with the goal of delivering a lightweight, memory-based touchscreen game that combines retro aesthetics with cognitively engaging gameplay suitable for mobile devices. From initial concept to final deployment, every design and technical decision was carefully made with the player experience in mind, prioritizing speed, clarity, and enjoyment. The game features Pixel Art and simplified User Interface (UI) layouts, creating a visually appealing and easy-to-navigate interface. The choice of a retro theme and pixelated style was both an artistic and technical decision, selected for its nostalgic charm as well as its practical efficiency on mobile platforms, ensuring smooth performance and an engaging user experience.

Reflection

Developing "Big Mac Match-Up!" was both a highly rewarding and eye-opening experience that pushed me to bridge the gap between theory and practice. The project challenged me to apply my knowledge in real-world scenarios, combining elements of game design, user experience principles, and technical development into a single, cohesive product.

From designing intuitive interfaces to implementing gameplay mechanics, every step required careful consideration of both aesthetic appeal and functional efficiency. Throughout this journey, I gained a deeper appreciation for the interdisciplinary nature of game development, understanding how it demands a delicate balance of creativity, structured problem-solving, and empathy for the end user. The experience not only strengthened my technical and design skills but also highlighted the importance of iterative testing, user feedback, and thoughtful decision-making to create an engaging and enjoyable player experience.





BIG MAC MATCH-UP!



Haji Izzat Ihtisyam bin Haji Shameon B20220466 - Creative Multimedia

Supervisors: Idham Mashud, Azhan Ahmad

ABSTRACT

The project proposed is the addition and development of an app-based game that is imbedded into McDonald's Brunei Mobile Application through SmartWeb View. The game randomly generates object orders displayed in speech bubbles, requiring players to accurately select corresponding images from a dynamically randomized UI menu. Incorporating adaptive difficulty through timing, scoring mechanisms, and NPC feedback.

INTRODUCTION

The McDonald's Drive-Thru game (Big Mac Match-Up) is a time management game where players will work as a drive-thru employee, serving customers with the correct menu items within a given time limit. The game is in a Retro Pixel Art theme and features a playful and fun environment with a soundtrack that is light-hearted with an 80s chipmunk sound, but will be high tempo to encourage the players to get the orders done quickly. All of the assets are created using BeepBox (SPK), Pixel (Visual Assets), and Unity (Game Engine).

METHOD

The methodology adopted for the project is a mix of Agile with Iterative Development and Continuous Updates approach before continuing to the next task. This methodology is built to embrace change, which can increase the likelihood of completing projects on time. The tools used for the project are Unity, Pixel, Visual Studio, BeepBox, and Itch.io.

An analysis of dozens of game postmortems (post-project reviews) found that all major problems of the traditional software industry are also found in the games industry and recommend Agile practices as solutions (Petrillo & Pimenta, 2010).

RESULTS

A completed game with all of the planned features including Randomized McD Meal Orders (BB), Randomized NPC and Vehicles (Cappuccino, Cars, etc.), NPC Expression Feedback (Happy, Neutral, Angry), Scoring System (+10 for correct, -10 for incorrect), Multiplier System (x2, x4, x8), Changing Backgrounds Throughout Gameplay (every 40 seconds, morning to sunset), and 3 Difficulty Levels (Easy, Medium, and Hard).



DISCUSSION

Analytics from the BMUJ (Big Mac Match-Up) dashboard showed significant engagement from the customers in viewing and playing the game within the first 2 weeks. Customer feedback indicates positive reactions to the gameplay. At 40 responses, the game averages an 8/10 with an overwhelming 85.7% of customers responded that they would play the game again. Multiple respondents have also commented that they enjoy the game and find it interesting. Although engagement rate is low, it can be confirmed that the players that did play the game found it entertaining enough to play again.

- Peaking at 1121 views and 278 plays in the 2nd week
- 20% engagement due to no rewards
- Future implementation to reward vouchers to incentivize customers to play the game.



IMPLEMENTATION

The game is integrated with the McDonald's Brunei app through its backend system, which facilitates the deployment and accessibility of interactive content within the app. This integration is achieved by creating a dedicated banner (window) within the application that links to the game via McDonald's Global Mobile App URL, allowing users to access and play the game directly within the McDonald's app without any external navigation.

A key advantage of this integration is the game's flexibility in adapting to different screen dimensions. To maintain accessibility across different environments, both local and global whitelisting mechanisms are implemented. These whitelisting protocols ensure that the game link is recognized and permitted within various network configurations.

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ACKNOWLEDGEMENT

This incredible and memorable journey would not have been possible without the support of the most important people in my life and the opportunities given to me. First and foremost, to "Allah SWT" for giving me strength, wisdom and clarity to bear the challenges faced throughout my years of study while juggling memorable milestones in my personal life. To the Brunei government for the financial support towards my studies. To the staff and students of UTH, and Mekan Ceni Sdn Bhd (IT Department) for allowing me to expand the research and experience through the SCI Capstone Project.

DOWNLOAD THE MCDONALD'S BRUNEI APP TO PLAY THE GAME HERE!



IQMAL

100

MINISTRY
OF EDUCATION



04

UNI
VIBES

AN INSIGHT TO CREATIVE COMPUTING CAPSTONE PROJECTS





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IQMAL YUSRI



MD SHAFIQ IQMAL BIN YUSRI

BSc(Hons) in Creative Multimedia

"The only way is out is forward."

ABOUT ME

My name is Shafiq Iqmal Yusri, and I am 25 years old. I have always carried a consistent passion for photography, graphic design, and motion graphics, which continues to inspire my work and creative direction. Over time, I have built a strong foundation in visual communication and digital media, allowing me to explore different creative avenues with both technical and artistic focus. I am proficient in Adobe Illustrator, Photoshop, Premiere Pro, and After Effects, which I frequently use to bring my ideas to life through both still and moving visuals. Alongside this, I have gained valuable experience in 3D modelling, motion graphic animation, poster creation, short film production, website design, advertisement, and media management.

These opportunities have enabled me to refine my skills across multiple areas while continuing to expand my knowledge in multimedia and design.



ROAD SAFETY: EDUCATIONAL 3D VIDEO

Project Synopsis

This project aims to educate young children in Brunei about the importance of safe road behaviours through the use of modern media techniques. It emphasises the importance of obeying traffic signals, using road facilities such as zebra crossings and sidewalks, and staying alert to their surroundings.

The initiative seeks to instil responsible habits early on, encouraging children to understand how their actions affect both their own safety and the well-being of others. By integrating safe practices into daily life, the project aims to reduce accidents and foster a culture of thoughtful, responsible road use within the community.

Reflection

Working on this project has given me deeper insight into the range of resources and processes involved in producing a 3D animation series. This includes everything from subject research, idea development, and storyline creation to storyboarding, scripting, 3D modeling, rigging, environment creation, animation, and rendering.



During my time with the Creative Multimedia Unit, I was guided through the steps required to complete tasks independently.

I also gained a better understanding of the importance of effective communication when collaborating on professional group projects.

Mohammad Shafiq Iqmal Bin Yusri
 Supervisor: Dr. Ahmad Elaklout
 Creative Multimedia



ROAD SAFETY

MANNERS AND SAFETY 3D ANIMATION

Abstract / Overview

A short 3D animated video to teach young children about road safety. It explains the safety rules, the behavior of passengers, the behavior of a good driver and the safety rules that pedestrians need to keep in mind while they are on the road.

Problem Statements

Lack of road safety education in schools:
Educational road safety materials aren't normalized for children in Brunei primary schools.

A high risk of accidents involving children:
Children have limited awareness and understanding of traffic rules.

Limited use of modern educational tools
failure to capture children's attention with current methods, while lacking innovation and visual based content.

Proposed Solutions

- Developing a vibrant 3D animated video made for young children
- Using colorful visuals, relatable characters and simple storytelling
- Use of modern digital media to increase awareness and improve retention

Aims

The aim of this project is to educate children on the importance of safe road behaviors, such as using the prepared facilities, staying alert to prevent accidents and normalizing responsible road usage.

Objectives

To raise awareness about road safety while, normalizing safe road habits to reduce accidents and help encourage young children and young teens to make responsible decisions while on the road.


Animations proposed


Episode 1 Passenger Behaviors
This episode highlights the importance of the safety rules of a passenger and children who are in a car.

Episode 2 Driver Behaviors
This episode shows how a good driver operates a moving car while dealing with certain situations on the road.

Episode 3 Pedestrians
this episode explains the safety rules for pedestrians when using on the road.

Tools





Blender Audacity Premiere

Conclusion

This project highlights the importance of early road safety education, by using 3D animation, we can effectively capture children's attention and deliver safety messages in a way they can understand and remember.





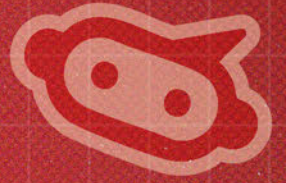
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IZZATI SYAHIRAH



NORIZZATI SYAHIRAH BINTI ABDULLAH

BSc(Hons) in Creative Multimedia

*"Running on low battery since semester one,
but Alhamdulillah still reached the finish line."*

ABOUT ME

My name is Izzati Abdullah, a Creative Multimedia student with a passion for 3D game development and 3D modelling, alongside experience in graphic design and animation. I believe creativity and technical ability work hand in hand, enabling me to transform ideas into meaningful and engaging projects that connect with people. Throughout my studies, I have developed skills across a range of multimedia tools, including Adobe software, Blender, and Unity, which have allowed me to explore visual storytelling, interactivity, and design from multiple perspectives.

I strive to grow with every project, seeking fresh and creative approaches and embracing challenges as opportunities for learning and innovation. My aim is to produce work that demonstrates both technical precision and creative expression, while also resonating with audiences. Ultimately, I aspire to use multimedia as a platform for storytelling, education, and the preservation of culture.



INTERACTIVE GALLERY GAMES: THE CONSTITUTION GALLERY

Project Synopsis

"Constitutional Quest" is a 3D interactive educational game developed for the Constitution Gallery at Pusat Sejarah Brunei. Designed in a third-person point of view (POV) style using Unity for touchscreen devices, the game aims to make learning about Brunei's constitutional history more engaging, especially for students and young visitors. Through exploratory gameplay, players navigate the 3D gallery environment, interact with Non-Player Characters (NPCs) and collect scrolls. This project was developed to transform traditional museum learning into an enjoyable experience by combining storytelling with educational quizzes, interactive dialogues, and task-based objectives. It encourages active learning by allowing players to discover and absorb historical content at their own pace, making the information more accessible, memorable, and meaningful. By integrating game elements such as character interactions, exploration, and rewards, Constitutional Quest not only educates but also motivates visitors to further appreciate Brunei's rich constitutional history in an engaging and modern way.

Reflection

Developing the Constitutional Quest for the Constitution Gallery has been a truly enlightening journey. It pushed me to think beyond traditional gameplay and explore how interactive media can make learning history more meaningful and engaging. This project showed me that games can play a powerful role in education, not just as entertainment but as tools to connect people with their culture.



One of the most fulfilling parts of this journey was designing ways for young visitors to discover and appreciate Brunei's constitutional history in a fun and interactive way. It reminded me that creating games isn't only about coding or visuals; it's about creating experiences that leave a lasting impact. Developing this game taught me the importance of preserving our heritage while

presenting it in ways that resonate with today's generation, ensuring that these stories continue to inspire the future.



INTERACTIVE GALLERY GAME

PROJECT OVERVIEW

This interactive educational game is developed for the Constitution Gallery at Pusat Sejarah. Historical content is presented through an engaging and immersive digital format that encourages interactive learning. By combining storytelling, gamification, and multimedia elements, the game enhances visitor interaction and understanding of Brunei's constitutional history.

AIM & OBJECTIVES

To create an interactive educational game that boosts engagement and understanding of Brunei's constitutional history in a museum setting.

- Design a game based on key constitutional events.
- Integrate interactive elements like quizzes, puzzles and storytelling.
- Assess engagement, usability and learning outcomes through user feedback.
- Encourage historical literacy through digital media.

PROBLEM STATEMENT

Traditional museum displays like static panels often lead to low engagement, especially among younger audiences. The Constitution Gallery struggles to make complex historical content accessible and memorable, highlighting the need for more interactive and user-friendly experiences.

PROPOSED SOLUTION

An interactive digital game featuring storytelling, quizzes, and puzzles will be installed on a tablet and connected to a tv. The game is a third-person, maze-style experience where players navigate through challenges, collect items, and answer questions based on Brunei's Constitution to win.



TARGET AUDIENCE

- Students
- Young visitors
- Museum visitors



TOOLS






ADOBE ILLUSTRATOR UNITY BLENDER VISUAL STUDIO CODE

NORIZZATI SYAHIRAH BINTI ABDULLAH (B20220103)
 BACHELORS OF SCIENCE (HONS) IN CREATIVE MULTIMEDIA
 SUPERVISOR: IBRAHIM BIN EDRIS

ODBA 80%



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HAFIZAH SOFFIAN



SITI NURHAFIZAH BINTI MD ABU SOFFIAN

BSc(Hons) in Creative Multimedia

"I stand proud and grateful for who I am today, shaped by every challenge, every lesson, and the encouragement I received along the way."

ABOUT ME

My name is Hafizah Soffian and I am 24 years old. I am a Creative Multimedia student who always eager to learn new things that can contribute to both my personal and professional growth. I believe that every new experience is an opportunity to improve myself, whether it is through gaining knowledge, developing new skills, or exploring different perspectives. I enjoy challenging myself with tasks that push me out of my comfort zone because they allow me to grow stronger and more confident in what I do.

I value continuous learning, not just in formal education or work, but also through everyday experiences and interactions with people. For me, growth comes from being open-minded, adaptable, and willing to put in effort to achieve better results. My goal is to keep improving myself, not only to build a successful career, but also to become someone who can make a positive impact on others.



INTERACTIVE GALLERY GAMES: PADIAN OHH PADIAN!

Project Synopsis

The goal of this project is to create an interactive game for Pusat Sejarah, addressing the gallery's lack of interactive technology and making the visitor experience more engaging. "Padian Ohh Padian!" is a Unity trading game where players act as the Padian, navigating the Bidar boat to deliver goods like fish, sago, oil, rice and fruits. The game lets visitors experience the floating market and learn how the Padian was done before, inspired partly by Airplane Chef.

Villagers will call out to the Padian from their homes, and when goods are delivered, points will be added. Each delivery also unlocks new historical facts about the Padian. Characters reflect the Brunei culture where villagers wear baju kurung and casual clothes, while the Padian wears seraung bini and baju kurung. The environment shows colorful Kampong Ayer houses based on real ones and designed to appeal to kids. The title Padian Ohh Padian! comes from the real way villagers used to call out to river traders, making the game feel authentic.

Reflection

Working on this game has been a transformative journey that challenged and improved my design and programming skills, particularly in Unity. Creating a game with so many interconnected mechanics was no easy task, especially since I had never completed a full game before and often struggled with the technical side of development. To overcome those hurdles, I dedicated time to researching each important system

and reached out to friends and lecturers who supported me along the way.

Completing the game felt surreal, and seeing it displayed at Pusat Sejarah Brunei made all the effort worthwhile. I couldn't be more grateful to have finished the entire project in less than five months, it still amazes me. From feeling uncertain in the beginning to now watching visitors interact with the game and learn about Bruneian heritage through something I created, the experience has been both empowering and humbling. It's an achievement I'll always carry with pride.



Siti Nurhafizah Binti Md Abu Soffian (B20220259)
Bachelor of Science in Creative Multimedia
Supervisor: Dr Hj Azhan bin Pg Hj Ahmad

INTERACTIVE GALLERY GAME

Project Overview

This project focuses on developing interactive games based on the Golden Age era in Pusat Sejarah Brunei. Aimed at engaging young visitors. By incorporating immersive and educational game elements, the project seeks to enrich the visitor experience and make historical learning more appealing and memorable.

Problem Statement

Pusat Sejarah Brunei currently relies on printed materials, leading to low engagement, especially among children. The lack of interactive technology limits learning, misses opportunities for innovation, and results in higher maintenance costs. Overall, the visitor experience feels outdated and less aligned with modern educational standards.

Software



To use immersive elements that engage young audiences.
To improve the visitor experience with interactive learning.

Objectives

Aim

To develop interactive games based on the Golden Age era in Pusat Sejarah Brunei, aimed at engaging young visitors.

Proposed Solution

Game 1 : Padian Ohh Padian

A serving game inspired by the Airplane Chef. Where players must drag correct item to match the displayed icon above each customer.

Game 2 : Brunei Historical Timeline

A timeline puzzle where players drag historical events to the correct years. Incorrect matches will be declined.

Conclusion

In conclusion, this proposed project will serve as an important part of Pusat Sejarah Brunei's plan to increase the number of visitors and ensure sustainability. It demonstrates how game-based learning can help engage young visitors while aiming to enhance knowledge retention and make the experience more enjoyable. It is also important to ensure that all progress and plans run smoothly to achieve an ideal result.



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NURIN SUFFIAN



NURIN BINTI SUFFIAN

BSc(Hons) in Creative Multimedia

"I actually made it, despite fear, doubt, and the many days I wanted to quit."

ABOUT ME

My name is Nurin Suffian, also known as Wen, and I am a Creative Multimedia student with a deep love for the visual arts. Alongside this passion, I am also drawn to game development, where I enjoy exploring new ways of creating interactive and engaging experiences. I thrive on learning new things and challenging myself to grow through every project I take on.

I strongly believe in the importance of constant growth and the power of curiosity. For me, creativity is not only about expression but also about discovery—finding new approaches, experimenting with ideas, and turning concepts into meaningful impact. With this mindset, I continue to learn, adapt, and create, always striving to push my skills to the next level.



INTERACTIVE GALLERY GAMES: BORNEO MANUSCRIPT GALLERY

Project Synopsis

The main aim of this project is to develop an interactive and informative game that engages users while educating them. The goal is to transform the gallery into an interactive learning environment, designed to appeal to a broad audience and foster a deeper appreciation for Borneo's rich cultural and historical heritage.

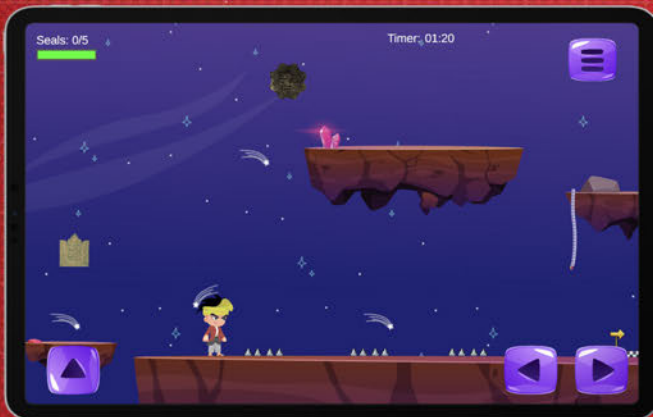
The project proposes three games that present Brunei's cultural heritage in a dynamic and engaging way. Each game has been carefully crafted to function both as a learning tool and an enjoyable experience, providing players with the opportunity to interact with historical manuscripts and cultural elements in a meaningful format. To bring this vision to life, the project will utilize Unity software, allowing for immersive and interactive gameplay that enhances the overall educational experience.

Reflection

The opportunity to work with the Borneo Manuscript Collections Gallery and bring Brunei's rich history to life through interactive media has not only challenged me creatively but also deepened my appreciation of the idea that games can be more than just entertainment.

One of the most rewarding aspects of this project has been figuring out how to make Brunei's historical and cultural heritage accessible and exciting for younger audiences. This journey has reaffirmed why I

create games — it's not just about coding or art; it's about building meaningful connections. When working with cultural heritage, especially something as fragile and precious as historical manuscripts, there is a responsibility to honour the past while making it relevant for the future, ensuring that these stories continue to inspire and educate for generations to come.



BACKGROUND STUDY

The Borneo Manuscript Collection at the Brunei History Centre offers a unique and invaluable glimpse into the rich cultural and historical heritage of Borneo.

These manuscripts, which date back centuries, provide critical insights into the region's traditional knowledge, and historical events.

These letters, which are on display in the exhibit, are rich in culture and historical value, demonstrating the various scripts, dialects, and formats that are employed in official correspondence.

TOOLS



CONCLUSION

This project comes up with new ways to make historical sources easier to read, remember, and fun by creating games like "Ancient Seal Quest" (a 2D platformer), "Match the Official Seals" (an educational memory game) on the interactive TV, and making one of the tablet informative.

Nurin binti Suffian (B20220116)
Bachelor of Science (Hons) in Creative Multimedia

Dr. Pengiran Haji Azhan bin Pengiran Haji Ahmad (1st Supervisor)
Dr. Ahmad Elaklout (2nd Supervisor)

INTERACTIVE GALLERY GAMES MANUSCRIPT GALLERY

PROJECT OVERVIEW

This project aims to enhance visitor engagement at the Brunei History Centre's Manuscript Gallery by introducing an interactive educational game. It can be challenging for visitors, particularly younger ones, to relate to ancient manuscripts because traditional displays frequently lack interactivity.

Through interactive gaming and cultural education, the game lets players solve memory game, collecting the seals, and discover Brunei's historical documents in an entertaining and unforgettable way.

PROBLEM STATEMENT

The current gallery exhibition format relies heavily on traditional static displays and as listed below:

Lack of Digitalization

Limited Interactivity

Overwhelmed Contextualization

AIM

The main aim of the capstone project is to develop an interactive informative and game. This system can provide an immersive learning experience, making the manuscript more accessible, interactive and engaging for the public.

OBJECTIVES

- To offer an engaging experience.
- Bridge historical and modern experience by blending traditional manuscript content with innovative gameplay elements

PROPOSED SOLUTIONS

The proposed solutions introduces an engaging game designed to transform the gallery experience by offering a digital, interactive platform for exploring historical manuscripts. The three types of games are introduced below:

SULTANATE CHRONICLE SEALS

In this 2D Platformer, player will navigate various levels filled with challenges and collecting the manuscript official seals.

TERJEMAHAN MANUSKRIP

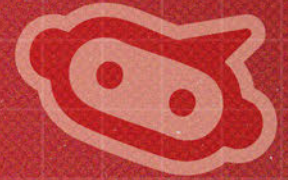
The game offers an information section where players can delve into details and translations about each manuscript and seal.

SEAL SCHOLAR: MEMORY EDITION

Flip over two cards to find matching pairs of the seal images.



AMEERAH 'AISYAH



AMEERAH 'AISYAH BINTI HAJI EDHAM

BSc(Hons) in Creative Multimedia

*"I studied (sometimes). I stressed. I procrastinated...
and somehow, I still made it!"*

ABOUT ME

Hi, I'm 'Aisyah, a Creative Multimedia student from Universiti Teknologi Brunei (UTB). I've been in the multimedia field for about eight years, starting at IBTE, then Politeknik Brunei, and now UTB. Over the years, I've explored different areas including photography, videography, graphic design, animation, and 3D modelling. I enjoy finding creative ways to share ideas and communicate visually through different forms of media.

I'm experienced with Adobe Photoshop, Illustrator, Lightroom, Premiere Pro, After Effects, as well as Blender and Unity. Working on various projects has pushed me to grow both technically and creatively whether it's video editing, designing visuals, or creating interactive media. What interests me most about multimedia is how it can go beyond visuals or entertainment, to tell stories, preserve culture, and create experiences that connect with people. I'm eager to keep learning and exploring new ways to bring ideas to life.



INTERACTIVE GENEALOGY OF SULTAN HAJI HASSANAL BOLKIAH

Project Synopsis

This interactive digital family tree system, built with Unity and C#, beautifully showcases the royal genealogy of His Majesty Sultan Haji Hassanal Bolkiah. It provides an engaging way to explore Brunei's royal lineage through four sections: Parents and Siblings, Wives and Children, Full Family Tree, and a Mini Game where users match names to faces via drag and drop. With a clean, clickable interface featuring photos and names, the system makes learning about the royal family more engaging than traditional printed charts.

The interface is designed to be user-friendly and visually clean, with culturally inspired elements such as Brunei's royal colours and traditional patterns. The system was developed and structured to help users learn in a step-by-step manner, making it easier to understand complex family relationships. It also highlights how digital tools can enhance cultural learning by making heritage content more interactive, especially for younger or tech-savvy audiences. This project demonstrates the potential of combining technology with tradition to preserve and promote Brunei's royal history in a fresh and accessible format.

Reflection

Working on this project was a valuable learning experience. As a beginner in Unity and C#, I learned to build interfaces, script features, and solve technical issues. Though challenging at first, I grew more confident and enjoyed creating a system that is both functional and user-friendly.



Through this project, I gained a better understanding of how digital tools can help preserve culture in engaging ways. I faced challenges like time constraints and not being able to test the project on its intended display, but these experiences taught me to adapt and make the most of the resources I had. Collecting user feedback also helped me improve the system and better understand how it could be refined. Overall, the experience strengthened both my technical and creative skills and showed me the value of combining tradition with technology.

Interactive Genealogy of Sultan Haji Hassanal Bolkiah

Ameerah 'Aisyah bte Haji Edham | B20220281 | Ibrahim Edris

This project presents the development of an **interactive family tree system** focused on the lineage of His Majesty Sultan Haji Hassanal Bolkiah. The objective is to modernize traditional static displays by offering a **visually engaging and user-friendly digital platform** that allows visitors to explore royal genealogy through names, titles, and birth/death dates. Designed and developed using Unity and Adobe Illustrator, it is designed to **run offline** and features a **culturally inspired interface** incorporating **Bruneian aesthetics**. The project highlights the effectiveness of interactive design in enhancing visitor experience while promoting sustainability through the reduction of printed materials.

AIM & OBJECTIVES

1. Develop a digital platform to present Brunei's royal genealogy
2. Enhance visitor engagement through an interactive user interface
3. Reduce reliance on printed materials through sustainable design
4. Preserve historical integrity and cultural heritage
5. Ensure offline accessibility for gallery use

PROBLEM STATEMENT

Current genealogical displays in historical galleries are **static, difficult to update, and lack engagement**, especially for tech-savvy younger audiences. They also contribute to **high printing costs and paper waste**.

PROPOSED SOLUTION

Create an **offline interactive genealogy display system** that digitizes and enhances the visual presentation of the Sultan's lineage, reducing reliance on printed materials while increasing accessibility and educational value.

METHODOLOGY

1. Requirements Gathering

Identified key features and audience needs
Outlined structure and purpose of the family tree

2. System Design

Created UI layout and section breakdown
Planned visuals to match royal and cultural aesthetics

3. Implementation

Developed the system in Unity using C#
Integrated navigation buttons, images, and game logic

TOOLS



4. Testing

Conducted user testing on a laptop
Collected feedback through surveys (10 participants)

5. Evaluation & Refinement

Analyzed feedback
Made layout improvements

DISCUSSIONS

Interpretation of Findings

Survey results showed that most users found the system easy to navigate, visually appealing, and educational. The mini game, clickable layout, and sectioned family tree helped users understand Brunei's royal genealogy more effectively than a printed chart. All respondents said they would recommend the experience to others.

Insights & Implications

- **Interactive learning is more engaging** than static displays, especially for young audiences.
- The system **can be used in museums or galleries** to promote Brunei's royal heritage in a more modern and accessible way.
- There is potential for future **features like voice narration, timelines, or quizzes** to make the experience even more immersive.
- Feedback showed that even with limited testing (only on laptop), the system **met its core goals and was well-received by users**.

CONCLUSION

The project provides an engaging, digital solution for presenting Brunei's royal lineage, promoting both historical preservation and sustainability. By modernizing traditional displays, it enhances user experience and learning. Future improvements may include multimedia integration.



ZULFIQAR MOHAMMED

AMIR ZULFIQAR BIN HAJI MOHAMMED

BSc(Hons) in Creative Multimedia

*"The truest prayers are lived—let your actions speak
what your heart seeks, for Allah sees effort as worship."*

ABOUT ME

My name is Amir Zulfiqar Bin Haji Mohammed, and I am 25 years old. I am deeply passionate about improving existing systems and optimizing them for better efficiency and functionality. At the same time, I am not averse to creating entirely new systems from scratch, driven by creativity and a desire to develop innovative solutions.

I view every project as an opportunity to blend practicality with originality, finding ways to enhance processes while exploring new ideas that can make a meaningful impact. This mindset allows me to continuously grow as a creative problem solver and a forward-thinking contributor in the field of multimedia and technology.



BRUNEI HISTORY CENTRE DIGITAL INFORMATION: INTERACTIVE MAPS

Project Synopsis

The project was initiated during a six-month internship at Pusat Sejarah Brunei as part of the final-year requirement for the Creative Multimedia programme under the School of Computing and Informatics (SCI), Universiti Teknologi Brunei (UTB). The core objective is to enhance wayfinding, accessibility, and visitor autonomy, while also streamlining staff workflow and departmental coordination through user-friendly, location-specific interfaces.

The project responds to increasing expectations for smart museum environments in Southeast Asia and addresses gaps in Brunei's public heritage experience by making historical information more discoverable, navigable, and engaging. Ultimately, the system seeks to lay the groundwork for future digital enhancements across Brunei's cultural institutions.

Reflection

A major challenge emerged during the execution and deployment phases, particularly in attempting to install the interactive map systems on-site. The Brunei History Centre required the system to function

without internet connectivity, which introduced limitations in terms of media loading, live updates, and remote testing. Overcoming this issue required rigorous offline testing and reconfiguration of assets to ensure full compatibility with standalone touchscreen systems.

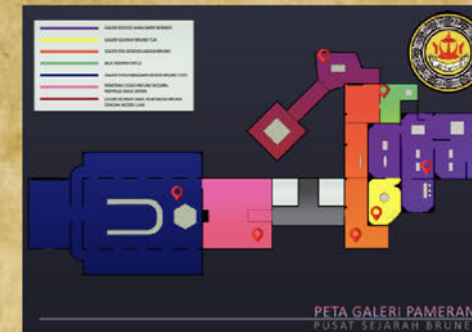
Of all the project outcomes, the most personally fulfilling achievement was the complex and integrated functionality of the final prototype. The system was designed with modular interactivity,

layered map functionality, and adaptive layouts tailored for both public and staff audiences, reflecting a sophisticated understanding of user experience (UX) in a heritage context.



BRUNEI HISTORY CENTRE DIGITAL INFORMATION

AMIR ZULFIQAR BIN HAJI MOHAMMED
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CREATIVE MULTIMEDIA



PROBLEM DEFINITION

Visitors to the Brunei History Centre often face difficulties in navigating the various exhibition areas. Several key challenges have been identified:

- **Limited Directional Guidance:** The existing navigation system consists primarily of printed maps and signage, which may not be sufficient for first-time visitors unfamiliar with the centre's layout.
- **Lack of Real-Time Updates:** Printed materials can quickly become outdated, especially when exhibitions change or temporary exhibits are introduced.
- **Language Barriers:** International visitors may find it difficult to understand printed guides if they are not available in their preferred language.
- **Accessibility Issues:** Traditional maps and signage may not cater adequately to individuals with visual impairments or other accessibility needs.

INTRODUCTION

The Brunei History Centre plays a crucial role in preserving and showcasing the rich cultural and historical heritage of Brunei. As a key institution for both local and international visitors, it is essential that the centre provides an engaging and accessible experience.

However, the current navigation system relies heavily on static maps and printed guides, which present several limitations in terms of accessibility, engagement, and real-time updates.

SOFTWARE USED



SOLUTION

One kiosk at the visitor entrance with a 2D interactive map and one kiosk at the employee registration and attendance counter featuring:

- Touch navigation with north-aligned rotation.
- Clickable/touchable icons displaying exhibit or department descriptions.
- Floor-switching functionality.
- A static isometric map view option

WATERFALL METHODOLOGY

The Waterfall methodology for this project involves a step-by-step process starting with gathering visitor requirements, followed by designing the interactive map in Figma. The design is then exported and implemented into an offline app with embedded videos. After thorough testing, the final product is deployed on touchscreen displays at the Brunei History Centre.

CONCLUSION

In conclusion, the Brunei History Centre Digital Information project aims to enhance visitor engagement and internal communication through digital tools such as interactive maps and informative displays.



SMARTER BRUNEI

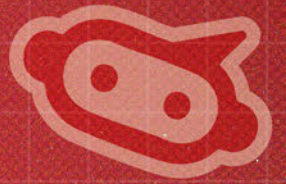
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INNOVATIVE



ASHIKIN SIMAT



NUR ASHIKIN BINTI SIMAT

BSc(Hons) in Creative Multimedia

*"From 'Congratulations, you're accepted!' to
'Congratulations, graduate!'—every step of the journey was worth it."*

ABOUT ME

I am Nur Ashikin Simat, a Creative Multimedia graduate from Universiti Teknologi Brunei, driven by curiosity and a passion for learning and exploring new areas both within and beyond the creative field. Over the years, I have developed a deep passion for 3D modeling and animation, while also gaining experience in graphic design, videography, and photography. One of the most defining experiences during my studies was my Capstone Project, where I partnered with SMARTER Brunei to develop a designated simulation for children with autism. This opportunity pushed me beyond my comfort zone and allowed me to see how creativity and technology can make a meaningful difference.

Through this project, along with countless assignments and tasks during university, I strengthened my problem-solving skills, adaptability, and resilience. I remain committed to continuous growth and am excited to bring my skills into the professional world, evolving both creatively and technically.



SIMULATED ENVIRONMENT FOR CHILDREN WITH AUTISM

Project Synopsis

This project involves designing and developing a Virtual Reality (VR) environment that helps children with Autism Spectrum Disorder (ASD) practise real-world scenarios. At SMARTER Brunei, social outdoor activities are an integral part of student engagement. To prepare for these activities, the organisation typically evaluates the location in advance before their visit. Since many ASD students struggle with adapting to unfamiliar settings, this approach helps mitigate sensory overload and anxiety on the actual day. This project seeks to enhance the preparation process by incorporating immersive 360-degree VR experiences, offering students a more comprehensive and interactive preview of outdoor locations. By providing a realistic and engaging way to explore new environments, the VR-based approach aims to improve students' adaptability, reduce overstimulation, and ensure a smoother transition into real-world settings.

Reflection

This Capstone Project has been a transformative journey that pushed me beyond what I believed I could achieve. Despite my initial doubts, especially since simulation development was my least favourite area, I learned that with dedication, support from both my host and UTB supervisors, and encouragement from my peers, I was able to complete the project successfully, even when faced with challenges. The most rewarding part is knowing that the simulation I created can help children with autism practice real-world scenarios in a safe environment. By reducing anxiety before they visit actual locations, I believe this tool can make a meaningful difference in their lives.



NUS ASHWIN BTE SMAT (B20220181) | BACHELORS OF SCIENCE (HONS) IN CREATIVE MULTIMEDIA | SUPERVISOR: Noor Daeinila Binti H. Mohd Salleh | SCHOOL OF COMPUTING AND INFORMATICS

SIMULATED ENVIRONMENT FOR CHILDREN WITH AUTISM

ABSTRACT

Aims to design and develop a virtual reality (VR) environment that assists children with Autism Spectrum Disorder (ASD) in practicing real-world scenarios. At SMARTER Brunei, social outdoor activities are an integral part of student engagement. To prepare for these activities, the organization typically evaluates the location in advance before their visit. Since many ASD students struggle with adapting to unfamiliar settings, this approach helps mitigate sensory overload and anxiety on the actual day. This project seeks to enhance the preparation process by incorporating immersive 360-degree VR experiences, offering students a more comprehensive and interactive preview of outdoor locations. By providing a realistic and engaging way to explore new environments, the VR-based approach aims to improve students' adaptability, reduce overstimulation, and ensure a smoother transition into real-world settings.

PROBLEM STATEMENT

Hands-on activities (writing, color-matching, sensory exercises). - Students may become disengaged or distracted, affecting learning.

Key Issues Faced:

- Limited Preparation - Activities may not fully meet individual needs.
- Overstimulation - Sensory input can be overwhelming for some students.
- Repetitive Activities - Loss of interest over time.
- Communication Barriers - Difficulty expressing needs & struggles.
- Technology Distractions - Preference for gadgets over learning.
- Educator Limitations - Lack of one-on-one support.
- Limited Access to Specialized Tools - Few resources for tailored learning.

AIMS & OBJECTIVES

Create immersive VR simulations to help students practice real-world interactions in a safe, controlled environment.

Through this simulation they will experience activities such as:

- Arriving at the park
- Setting up a picnic
- Engaging in outdoor activities
- Exploring nature
- Navigating the Eco-Corridor Park

SOFTWARE

- Unity
- Ai
- Qoo
- Ae

HARDWARE

- VR Headset

PROPOSED SOLUTION

Interactive VR Simulation

- Use 360-degree camera footage of the Eco Corridor picnic site.
- Enhanced Interactivity
- Incorporate button-based interactions via Oculus for an engaging experience.
- Simple, User-Friendly Design
- Prevent overwhelming students by keeping the simulation straightforward.
- Tailored Versions
- Create two versions to cater to different class levels and student needs.
- Authentic Real-Life Footage
- Capture 360-degree footage of common picnic elements to ensure realism.
- Minimal Instructions
- Ensure ease of use with simple instructions and limited complex tasks.

Benefits:

- Enhances Preparedness: Students gain familiarity with the event setup.
- Boosts Confidence: Prepares students for a less stressful and more enjoyable real-world experience.

USER INTERFACE DESIGN

Familiar Layout for Easy Navigation

- UI Inspired by Smarter Center classrooms
- Ensures intuitive navigation for students
- Minimizes complexity and enhances familiarity

Two UI Versions for Accessibility

Version 1: Image-based navigation buttons
Version 2: Icon-based navigation buttons

Both versions function identically for a seamless experience

Interactive & Self-Based Experience

- Users start by clicking the 'Start' button
- Free exploration of activities and scenes
- Encourages interaction and environmental familiarity

METHODOLOGY

DATA COLLECTION

- Behavioral observations
- Engagement duration
- Educator/therapist feedback
- Optional video recordings

TARGET AUDIENCE

PARTICIPANTS

- Sample Group: students diagnosed with Autism Spectrum Disorder (ASD), aged [12 and below] years.
- Selection Criteria: Diagnosed with ASD
- Enrolled in SMARTER
- Parental/guardian consent obtained

SIMULATION CONCEPT

Immersive & Interactive

- Seamless navigation through a virtual environment.

Unity Development:

- Multiple interconnected scenes, each representing a unique location or scenario.

User Interaction:

- Clickable buttons (pictures/icons) for smooth scene transitions and interaction.

Real-World Footage:

- 360-degree video footage combined with images/icons for enhanced engagement.

TROPICAL BIODIVERSITY CENTRE



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SAIFUL NASRI



AK SAIFUL NASRI BIN PG ZAINI

BSc(Hons) in Creative Multimedia

"Ctrl + Z doesn't work in real life... so plan your shots."

ABOUT ME

As a student deeply immersed in the world of Creative Multimedia, I am passionate about blending imagination with technology to craft stories that both captivate and inspire. From photography and videography to animation and digital design, I thrive on exploring innovative ways to communicate ideas visually and make a meaningful impact through my work.

Always eager to experiment, I approach each project as an opportunity to push creative boundaries, transforming concepts into experiences that truly resonate with audiences. Through this process, I continually refine my skills, expand my understanding of multimedia, and strive to bring ideas to life in ways that are both engaging and memorable.



ENHANCING BIODIVERSITY AWARENESS THROUGH CREATIVE TECHNOLOGY

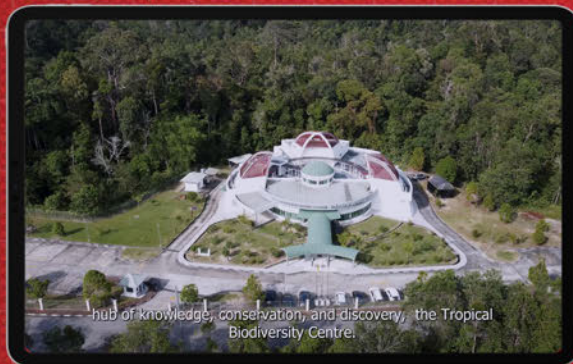
Project Synopsis

This Capstone Project focuses on developing an informative and emotionally engaging awareness video for the Tropical Biodiversity Centre (TBC), located in the Andulau Reserved Forest, Brunei Darussalam. The primary goal is to address the inconsistency of live presentations delivered to visitors by replacing them with a professionally produced video that delivers standardized, accurate, and visually compelling information about Brunei's tropical rainforests. The video utilizes a three-act narrative structure to guide viewers through an educational journey—from an introduction to the significance of TBC and Brunei's forests, to an exploration of the unique biodiversity and environmental threats, and finally, to a hopeful call-to-action for conservation. Post-production was completed using Adobe Premiere Pro, with colour grading aided by a cinematic LUT (Look-Up Table). Testing and feedback were gathered through emotional mapping with fellow interns, ensuring the video met its objectives of informing and emotionally resonating with the audience.

Ultimately, this project not only supports TBC's mission of public education and biodiversity awareness, but also provided hands-on experience in multimedia production, environmental communication, and visual storytelling.

Reflection

This project was a challenging yet rewarding experience that enabled practical application of multimedia production, storytelling, and environmental communication skills.



Brunei's biodiversity and strengthened my expertise in communication, visual storytelling, and project management—valuable skills for future academic and professional endeavours.

From pre-production research and scripting to filming and post-production, it provided full exposure to the video production process. A key takeaway was the importance of structured storytelling, particularly using the three-act narrative and emotional mapping to create impactful pacing and viewer engagement.

Overall, it deepened my appreciation for



INCORPORATING INNOVATIVE AND CREATIVE TECHNOLOGY TO ENHANCE THE TROPICAL BIODIVERSITY CENTRE'S FOREST BIODIVERSITY AWARENESS PROGRAM

ABSTRACT

This project aims to enhance visitor experience at the Forestry Department, Tropical Biodiversity Centre (TBC) by creating a consistent and engaging video presentation. It will highlight Brunei Darussalam's biodiversity and conservation efforts through cinematic visuals, narration, and animation. The video will be shown in the theatre and exhibition hall to improve public understanding and awareness.



AIMS & OBJECTIVES

The Tropical Biodiversity Centre (TBC) aims to provide a consistent and high-quality presentation experience for all visitors, enhancing their engagement and understanding of Brunei's rich biodiversity and ongoing conservation efforts. By establishing a professional and standardized approach to delivering information, TBC seeks to effectively communicate its mission and highlight the ecological significance of Brunei's natural heritage.

PROBLEM STATEMENT

- Biodiversity conservation is vital for maintaining ecosystem stability and resilience.
- Tackling biodiversity loss requires a whole-of-nation approach involving all sectors of society.
- Public understanding of biodiversity's value is essential to drive conservation efforts.
- Awareness programs should be continuous and reach all levels of the community.
- Video presentations are a powerful tool for raising awareness and educating the public.
- To be effective, videos must be not only informative, but also engaging and inspiring.
- Visual storytelling helps convey complex messages, connect people to nature, and promote appreciation for biodiversity.

PROPOSED SOLUTION

Proposed Solution

- Current Issue :** Currently, TBC delivers this program through live presentations, which may vary in style and content depending on the presenter. This variation can lead to inconsistencies in how the message is communicated to the audience.
- Proposed Solution :** To produce a professional, informative, and engaging video presentation that leverages storytelling to ensure consistent, high-quality delivery of information.
- Usage :** The video will be shown in the theatre, replacing the need for live presentations.

TOOLS USED



METHODOLOGY

- Research :** Collected info on biodiversity and TBC's role.
- Planning :** Defined audience, message, and storyboard. Developed a narrative structure using the three-act storytelling approach to make the video both informative and emotionally engaging.
- Filming :** Captured footage at TBC, forest trails, and biodiversity exhibits, and visitor interactions.
- Narration & Scripting :** Created a compelling script incorporating expert knowledge and storytelling elements. A voice-over narration was recorded to guide the audience through the visual content and connect the information emotionally.
- Editing :** Used Adobe Premiere Pro for video editing, including scene cutting, audio balancing, color grading, text overlays, and transitions.
- Output :** The final video was exported in high definition, suitable for both on-site viewing at TBC and online sharing through educational platforms and social media to reach a broader audience.





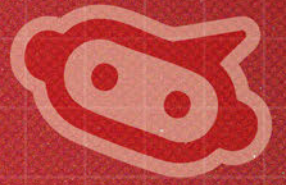
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<https://www.behance.net/aliahkassim>



ALIAH KASSIM



NUR SABARIAH ALIAH BINTI KASSIM SELAMAT

BSc(Hons) in Creative Multimedia

*"Rejections, delays, inconveniences all carry hidden hikmah from Allah.
'But perhaps you hate a thing and it is good for you, and perhaps
you love a thing and it is bad for you. And Allah knows,
while you know not.'" [2:216]*

ABOUT ME

Hi! I'm Nur Sabariah Aliah Kassim Selamat. I believe design is more than just visuals, it's about creating emotional connections that resonate with an audience. I enjoy crafting work that feels current with today's trends, while also carrying deeper meaning that people can relate to and understand. My strengths are in graphic design, illustration, storytelling, 2D animation, and motion graphics, and I also have experience in 3D modelling, videography, and photography. With a background in business administration from my diploma studies at IBTE, I've developed strong collaborative and assisting skills that help me support team projects effectively.

Working on my Capstone Project at Universiti Teknologi MARA (UITM), Puncak Alam, Malaysia, has opened my eyes to the creative industry, where I've been inspired by how artists infuse deeper meaning into their work. This exposure has motivated me to approach every project not only as a piece of design, but as a story with impact.



UI DESIGN FOR KOLUMPO HUNT: A GAMIFIED CULTURAL TOURISM APP

Project Synopsis

"Kolumpo Hunt" is a mobile app prototype that aims to make cultural tourism in Kuala Lumpur, Malaysia, more interactive, rewarding, and memorable. While the city is rich in culture, heritage, and food, most existing tourism platforms are static and lack engagement, especially for Gen Z and tech-savvy travellers who seek immersive, game-like experiences. This project addresses that gap by introducing a gamified treasure hunt where users explore real-world locations, scan QR codes, and complete fun challenges to earn badges and rewards. Built using a User Centered Design (UCD) approach and prototyped in Figma, Kolumpo Hunt focuses on intuitive UI/UX, ensuring the app aligns with user expectations while reducing development risks. The result is a design solution that transforms cultural exploration into an engaging digital adventure.

Reflection

Developing Kolumpo Hunt has been a rewarding experience that strengthened my skills in user-centered design and interactive UI/UX development. The project challenged me to transform cultural exploration into an engaging digital experience that appeals to Gen Z and tourists. Through iterative prototyping and usability testing, I learned the importance of aligning design with user expectations and ensuring clarity, motivation,

and ease of use. This journey also highlighted how gamification can make cultural tourism more meaningful, immersive, and enjoyable while opening opportunities to adapt the concept to other regions in the future.





Nur Sabariah Aliah Binti Kassim Selamat | B20220097
Bachelor of Science (Honours) in Creative Multimedia



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UNIVERSITI TEKNOLOGI BRUNEI



UNIVERSITI TEKNOLOGI MARA

A User Interface Design Study of a Gamified Mobile App for Enhancing Cultural Tourism in Kuala Lumpur - Kolumpo Hunt

BACKGROUND RESEARCH

Kolumpo Hunt is a mobile UI prototype designed to enhance cultural tourism in Kuala Lumpur through gamification and Augmented Reality (AR). Targeting Gen Z and tourists, the app offers a treasure hunt-style experience with missions, QR challenges, and digital rewards. This project focuses on designing an engaging user interface in Figma, guided by insights from apps like Father and Son and Hen Do Treasure Hunt. Through UI testing and user feedback, the study explores how design can motivate cultural exploration in a fun and interactive way.

PROBLEM STATEMENT

Despite Kuala Lumpur's rich cultural and historical attractions, existing tourism platforms largely function as static directories, failing to meet the expectations of Gen Z and digital-native users. These users seek more interactive, gamified, and rewarding experiences when exploring cities. Current apps lack features like personalized challenges or immersive storytelling, which limits cultural engagement and user satisfaction.

RESEARCH OBJECTIVE

This project proposes Kolumpo Hunt, a mobile UI prototype that transforms cultural tourism into a gamified treasure hunt, featuring QR-based missions, puzzles, and AR badges. Built using Figma, the design focuses on user-centered UI/UX to create a playful, educational, and memorable experience. By prioritizing intuitive design before full development, the project aims to reduce risk, improve adoption, and inspire deeper exploration of Kuala Lumpur's heritage.

COMPETITOR ANALYSIS

MOBILE APPLICATIONS	CULTURAL INTEGRATION	CLEAN MINIMAL UI	VISUAL CONSISTENCY	CLEAR NAVIGATION FLOW	REAL WORLD EXPLORATION	AR FEATURES	GAMIFIED MISSIONS	BADGES/REWARDS	ENGAGEMENT LOCAL SPACES	GEN Z VISUAL STYLE
FATHER AND SON	✓	✓	✓	✓	✗	✗	✗	✗	✓	✗
HEN TREASURE HUNT	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓
POKEMON GO	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
MONOPOLY GO	✗	✗	✓	✓	✗	✗	✓	✓	✗	✓

LITERATURE REVIEW

Gen Z prefers interactive, mobile-based travel apps that offer gamified, personalized, and shareable experiences. (Vanciel et al., 2023; Elena, 2024)

Good design is key to clean layouts, intuitive navigation, and visual feedback keep users engaged. (Wazzari & Lokman, 2018; Verrijika, 2020)

Game elements like missions, badges, AR, and rewards boost cultural learning and motivation (Xu et al., 2016; Cramer et al., 2020)

Most tourism apps are static, lacking interactive storytelling or mission-based exploration. (Huetos & Iglesias, 2022)

Father and Son: Cultural storytelling + clean UI = global success.

Hen Party Scavenger: Real-world gamified exploration.

Pokemon GO: AR + location triggers motivate exploration.

Monopoly GO: Mission-based progression keeps users engaged.

METHODOLOGY

UCD Method

Kolumpo Hunt applies a User-Centered Design (UCD) approach to create an engaging, user-driven app for Gen Z and local tourists in Kuala Lumpur.

Research | Survey identifies user needs, motivations, expectations.

Design | Figma UI prototype integrates gamification and cultural relevance.

Testing | Usability testing + observation assess clarity, engagement, satisfaction.

Refinement | Design improvements based on real user feedback.

Outcome | A tailored, interactive, visually engaging app that promotes cultural exploration through intuitive UI and gamified experiences.

PROJECT TIMELINE

Phase 1 | February - March: Initial Planning and Research

- Topic selection and problem identification
- Competitor analysis of existing app
- Online survey to explore user preferences and needs
- Define target audience and project objectives

Phase 2 | March: Analysis

- Analyze survey results
- Identify gaps and design opportunities
- UI/UX feature comparison with competitor apps
- Establish design direction for Kolumpo Hunt

Phase 3 | March - April: Prototype

- Develop low-fidelity wireframes and user flow
- Create high-fidelity prototype on Figma
- Define visual system (Colours, icons and typography)
- Prepare for usability testing

Phase 4 | May: Design

- Conduct face-to-face usability-testing
- Observe user behaviour and gather feedback (SUS and HEART Framework)
- Analyze task efficiency
- Visual clarity and engagement

Phase 5 | May - July: Final Evaluation and Submission

- Finalize prototype design and documentation
- Comparative analysis with existing app
- Prepare exhibition poster and final report
- Submit project and present Kolumpo Hunt

SCOPE OF WORK

Research

- Project Selection
- Problem Statement
- Competitor Analysis
- Target Audience and Objectives

Evaluate

- Low-Fidelity
- High-Fidelity
- Design Systems

Design

- User Needs and Preferences
- Establish design direction
- UI/UX features

Specify

- Usability Testing

SIGNIFICANCE OF STUDY

This project addresses the need for a user-friendly, gamified mobile app to promote cultural tourism in Kuala Lumpur—especially for Gen Z tourists and locals. By focusing on UI/UX design, the app enhances engagement and learning while reducing development risk through early prototyping.

The app also works as an educational tool, using gamification to make cultural discovery fun and interactive, encouraging deeper appreciation of Malaysia's heritage.

Inspired by the researcher's own exchange journey, this concept also holds future potential to be adopted for Brunei, helping promote its local culture and hidden gems.

KEY FINDINGS

- Limited Gamified Exploration**
Apps like Father & Son or Pokemon GO have game elements, but they aren't designed for structured, cultural exploration.
- No Treasure Hunt Tourism App in KL**
None of the reviewed apps offer a location-based treasure hunt specifically designed to explore Kuala Lumpur.
- Lack of Cultural Integration**
Most apps (Hen Do Treasure Hunt, Monopoly GO) focus on entertainment but do not incorporate visual or content elements tied to KL's cultural identity.
- Weak Gen Z Visual Appeal**
Aside from Father & Son's story-driven visuals, competitors generally lack the bold, vibrant, mobile-friendly design that resonates with younger users.

MAIN FEATURES AND BENEFITS

- Gamified Treasure Hunts**
Explore KL through interactive missions, making cultural discovery fun.
- Location-Based QR Tasks**
Unlock challenges only by physically visiting real KL spots.
- AR Badge Rewards**
Earn digital badges with AR effects, adding excitement and motivation.
- Cultural Trivia & Quizzes**
Learn local facts in an engaging, game-like format.
- Bold, Intuitive UI**
Enjoy a visually striking, easy-to-navigate app designed for Gen Z.
- Progress Milestone Map**
Track your journey and see your exploration progress clearly.

NOVELTY

- Cultural Tourism + Gamified Treasure Hunt
- AR Badges & Location-Based QR Tasks
- Gen Z-Focused Visuals & UI
- Tourism + Learning Through Missions
- First of its kind in KL Market

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HASBOL WAFI

MD HASBOL WAFI BIN SERTINI

BSc(Hons) in Creative Multimedia

*"Guess winging it one day at a time
really does add up to a degree."*

ABOUT ME

I'm Hasbol Wafi, a creative soul who loves exploring new ways to bring ideas to life. Whether it's experimenting with design styles, dabbling in animation, or trying out a completely different craft, I'm always chasing that spark of inspiration. I'm thrilled to take my creativity out for a spin in the real-world, tackling projects that challenge me, teach me, and maybe even leave a mark. Outside of work, I'm a big believer in exploring the little things in life, from hidden coffee shops to new hobbies I never knew I'd enjoy.

For me, creativity isn't just about design, it's about curiosity and exploration. I love turning random sparks of inspiration into something real, whether it's a quirky idea or a polished project. Every new challenge feels like an adventure, and I'm all in for exploring, learning, and sharing a little creativity along the way.



WIRA & MANJA: VM2026 OFFICIAL MASCOTS- REIMAGINING TOURISM ENGAGEMENT THROUGH VISUAL IMMERSION

Project Synopsis

This project creates an interactive TikTok Augmented Reality (AR) filter featuring Wira & Manja, the official mascots of Visit Malaysia 2026, to address their current lack of digital visibility and limited audience engagement. By transforming them into animated 3D characters with facial tracking, gamified interactions, and culturally themed storytelling, the filter leverages TikTok's youth-driven platform to boost awareness, encourage user-generated content, and promote Malaysian tourism in an engaging and shareable format. The project aims to blend cultural representation with modern social media trends, offering a fun and educational experience that revitalizes the mascots' identity, strengthens their connection with both local and international audiences, and sets a benchmark for how tourism campaigns can creatively harness AR technology for impactful promotion.

Reflection

Throughout this project, I learned that building something engaging isn't just about making it look good. It's about how people feel when they use it. From creating the 3D mascots to testing the TikTok AR filter with

real users, I was constantly learning how to balance creativity with practicality. It was challenging at times, especially when technical issues disrupted my workflow, but overcoming those setbacks taught me resilience and patience.

One thing I appreciated about this project was how it gave me a chance to explore cultural storytelling through technology. Bringing Wira & Manja to life in a fun and interactive way felt meaningful, especially knowing it might inspire more people to learn about Malaysia. This experience reminded me why I enjoy multimedia work and why I want to keep creating experiences that connect people.



Muhammad Hasbol Wafi Bin Sertini
B20220104
BSc (Hons) in Creative Multimedia



WIRA & MANJA: Visit Malaysia 2026 Official Mascots Reimagining Tourism Engagement Through Visual Immersion

Abstract

This project aims to explore the role of mascots in tourism branding, analyze effective digital marketing strategies, and design an interactive AR experience featuring Wira & Manja—the official mascots of Visit Malaysia 2026. Using a qualitative case study approach, the project involved user preference surveys, AR filter development in TikTok Effect House, and usability testing with observational feedback. The results revealed that animated and interactive digital mascots significantly improve user engagement, especially when paired with simple triggers and culturally meaningful content. Participants found the filter entertaining, easy to use, and worth sharing, indicating strong potential for social media-driven brand visibility. The study demonstrates that AR filters can transform static mascots into interactive ambassadors, making tourism campaigns more accessible and appealing to younger, digital-native audiences.

Background Research

This project explores the use of AR filters on TikTok to promote Visit Malaysia 2026 through its official mascots, Wira & Manja. While mascots are powerful branding tools in tourism, current engagement with Wira & Manja is limited due to their low digital presence.

By leveraging 3D animation, interactive design, and social media behavior, this project aims to increase the visibility and recognition of Wira & Manja as the official mascots of Visit Malaysia 2026 by turning them into an engaging digital icon. (Terning, 2013)

Problem Statement

Wira & Manja, inspired by Malaysian sun bears, are designed to attract tourists, raise brand awareness, and spotlight Malaysia's wildlife conservation. Mascots like them can forge emotional connections and enhance tourism through storytelling and interactive experiences. For global recognition, they require strong digital presence, consistent visibility, and easy access across platforms.

However, Wira & Manja currently face issues with low engagement, weak brand identity, and limited digital reach. Their static design, lack of animation, voice, or personality makes them forgettable, and minimal presence on platforms like TikTok or Instagram hinders their impact. Without multilingual content, global campaigns, or interactive tools like AR, they fall short in engaging international audiences. To truly support Visit Malaysia 2026, they must evolve into dynamic, accessible, and digitally-driven mascots. (Afren, 2024; Lund et al., 2017)

Objectives

To understand the role and importance of mascots in tourism branding and their impact on tourist engagement. (Terning, 2013)

To analyze existing digital and interactive marketing strategies used in tourism and their effectiveness. (Terning, 2013)

To design and develop animated and interactive digital versions of Wira & Manja to enhance their personality by implementing AR filters, virtual meet-and-greet experiences, and social media interactions to increase engagement and accessibility. (Afren, 2024)

Significance of Study

Promotes Digital Innovation in Tourism (Afren, 2024)
Promotes digital innovation in tourism by integrating 3D animation and AR into mascot storytelling.

Enhances National Branding (Lund et al., 2017)
Enhances national branding, making Malaysia's tourism identity more modern and globally recognizable.

Improves Tourist Engagement (Rimadas et al., 2021)
Improves tourist engagement by offering interactive and emotionally resonant experiences.



Literature Review

Theme	Key Insights
• Mascots in Branding and Tourism	Mascots are powerful tools for brand identity, emotional connection, and consumer engagement. Anthropomorphic mascots (Pilladino et al., 2020) improve purchase intent, while tourism mascots (Radomska & Pearce, 2021) promote cultural identity and emotional resonance.
• Immersive Technologies in Marketing	AR enables multisensory storytelling (Rauschnabel et al., 2022) and allows mascots to engage users through interactive scenes, virtual meet-and-greets, and gamified educational content.
• Importance of Digital Innovation in Tourism Mascots	Digital mascots are evolving into interactive brand ambassadors using AR, social media, and potentially AI, making them more relevant, accessible, and emotionally expressive (Marston et al., 2023).

Research Approach

- Qualitative case study
- Secondary data collection
- Data collected through user surveys, usability testing, and observational feedback

Testing Methods

- Pre-filter Survey
- 3D Mascot & Animation Feedback Survey
- User Feedback Testing
- Post-Interaction Survey

Development Framework

This project follows the Double Diamond Method, consisting of four distinct phases:

Tools Used



Novelty

- Platform Innovation: Combines TikTok AR filters with official tourism mascots for modern, mobile engagement.
- Interactive Mascot Design: Uses facial gesture triggers and animated responses to create a fun and immersive experience.
- Gamified Engagement: Introduces a photo competition mechanic to encourage user participation and sharing.
- Cultural Promotion Through AR: Embeds elements of Malaysian identity into digital storytelling for local and international audiences.
- Filling a Digital Gap: Addresses the lack of interactive digital mascots in Malaysia's tourism branding strategies.

Results and Discussion

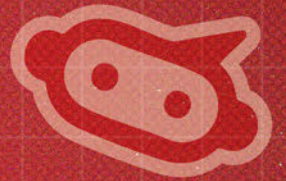
- Emotional & Cultural Impact of Wira & Manja:
 - Users unfamiliar with mascots initially, but responded positively after using the filter.
 - Mascots linked with national identity and tourism storytelling. (Noussaf et al., 2018)
- Why the Filter Works on TikTok:
 - 90% said it was fun, 80% easy to use, 55% liked cultural relevance.
 - Users likely to share due to humor and visual appeal.
 - Reflects what works in current digital marketing (short, fun, interactive content). (Terning, 2013)
- From Symbol to Companion:
 - Mascots became more than visuals. They became part of the experience.
 - TikTok and AR allow them to reach global audiences. (Afren, 2024)
 - Photo competition equals to incentive for sharing and participation. (Nelson, 2014)

Conclusion

- This project aims to enhance the visibility of Visit Malaysia 2026 by transforming Wira & Manja into engaging digital ambassadors through a TikTok AR filter.
- User feedback confirmed the filter was fun, easy to use, and highly shareable proving that AR and 3D animation can boost engagement.
- Culturally relevant tools like photo competitions and filters make tourism campaigns more accessible to younger audiences. (Cramer et al., 2020)
- Overall, this project shows the power of combining tourism, technology, and storytelling to create meaningful and memorable experiences. (Lund et al., 2017)



ZAKWAN ZUNAIIDI



MUHAMMAD ZAKWAN BIN HAJI ZUNAIIDI

BSc(Hons) in Creative Multimedia

*"With hardship comes ease. Every trial is a lesson,
every success is by Allah's mercy."*

ABOUT ME

I am Zakwan Zunaidi, a Creative Multimedia graduate Universiti Teknologi Brunei (UTB) with a passion for design, storytelling, and interactive media. My academic journey has given me hands-on experience in UI (User Interface) and UX (User Experience) design, digital content creation, and multimedia production, supported by opportunities such as representing UTB in the Huawei Seeds for the Future Programme in China and completing my Capstone Project at Universiti Teknologi MARA (UiTM), Puncak Alam in Malaysia.

Throughout university I developed my creativity through projects, competitions, and collaborations that strengthened both my technical abilities and my confidence as a designer. I believe design is not only about making visuals appealing but also about problem-solving, creating purposeful experiences, and connecting people through meaningful work. Guided by curiosity and resilience, I aspire to continue exploring how design can inspire, educate, and bring communities together.



UI DESIGN FOR GRAK APP: MOTION-GAMIFIED MOBILE APP PROMOTING PHYSICAL ACTIVITY AND CULTURAL ENGAGEMENT AMONG MALAYSIAN YOUTH

Project Synopsis

This project explores the design and development of "GRAK", a motion-gamified mobile application aimed at promoting healthier lifestyles and cultural engagement among Malaysian youth. With rising concerns about obesity, sedentary lifestyles, and the gradual decline of cultural awareness, this study investigates how user-centered design (UCD) can guide the creation of a mobile app that integrates physical activity with cultural learning. The app concept introduces interactive features such as motion-based challenges, storytelling, rewards, and progress tracking, transforming exercise into an enjoyable and educational experience. Through research, usability testing, and iterative prototyping, the project demonstrates how technology can bridge the gap between wellness and heritage, offering a digital solution that aligns with national health initiatives, cultural preservation, and global sustainability goals.

Reflection

Working on this project has been both a professional and personal learning experience. It challenged me to think critically about how design decisions impact real-world behaviour, particularly in encouraging youth to be more active and culturally connected. The process strengthened my skills in user-centered design and interactive UI/UX development, especially through iterative testing where user feedback became a crucial element in refining the prototype. Balancing aesthetics, usability, and cultural storytelling taught me that effective design is more than visual appeal, it is about creating experiences that resonate with users on multiple levels. Ultimately, this project reinforced my commitment to designing meaningful digital solutions that not only entertain but also inspire healthier and more culturally aware communities.





NADIAH SYAZWANI



NUR NADIAH SYAZWANI BINTI SHAMSUDDIN

BSc(Hons) in Creative Multimedia

"Not all who wander are lost... except me in After Effects."

ABOUT ME

Hi! I'm Nad. I am a visual storyteller who values intention, clarity, and emotional impact in design. I enjoy crafting work that not only looks cohesive and refined, but also communicates meaningfully. My strengths lie in graphic design, illustration, motion graphics, and 2D animation, while I also dabble in basic 3D modelling, editorial design, and photo and video editing. I use design as a tool to problem-solve—whether it's to guide an audience, clarify a message, or evoke a specific emotional response. I take pride in making sure every visual decision feels considered and aligned with the story or goal it's meant to serve.

Beyond design, I'm passionate about films—I love watching and analysing them in-depth and documenting my thoughts on Letterboxd after every watch. I'm also a lifelong gamer, finding joy in interactive storytelling and immersive worlds.



MY MYSTERIOUS DREAM GIRL: EXPLORING MOTION COMICS

Project Synopsis

Developed over the course of less than three months as part of my ExperiencePLUS and Capstone Project placement at Universiti Teknologi MARA (UiTM), College of Creative Arts and Design, Malaysia, "My Mysterious Dream Girl" is a short-form motion comic animation adapted from a project initiated by my UiTM supervisor. I joined the project to contribute to its animation, sound design, and emotional storytelling elements. The narrative follows a surreal and emotionally charged encounter between two strangers on a train—one of whom is unsettled by the sudden appearance of a girl he feels he knows but cannot place. Built using pre-illustrated comic panels and animated in Adobe After Effects, the project employs limited motion and intentional sound design to create psychological tension and immersive atmosphere. Produced within a Practice-Based Research (PBR) framework, the final animation was distributed on YouTube and evaluated through audience testing using the Self-Assessment Manikin (SAM) tool questionnaire, which measured emotional response across valence, arousal, and dominance dimensions.

Reflection

Working on My Mysterious Dream Girl has been one of the most creatively rewarding experiences of my academic journey. Being part of a real-world project under my UiTM supervisor challenged me to apply my skills in animation, sound design, and emotional storytelling beyond the classroom.

It pushed me to think more critically about how motion and audio can shape emotional tone in storytelling. I learned how minimal motion, when paired with thoughtful sound design, can evoke powerful emotions.



Above all, this journey helped me grow more confident as a creative practitioner and reminded me that even with limited resources and time, meaningful outcomes are possible through clear intent and thoughtful execution.

MY MYSTERIOUS DREAM GIRL EXPLORING MOTION COMICS



اوتيو سيدي تكنولوجي بروني
UNIVERSITI TEKNOLOGI BRUNEI



INTRODUCTION

My Mysterious Dream Girl is a practice-based research project that explores the emotional potential of motion comics as a digital storytelling format. The project adapts a short fictional narrative into a motion comic, integrating illustration, limited animation, narration, and sound design to evoke subtle emotional tones. Positioned within the Bruneian and Malaysian youth context, it investigates the use of hybrid media formats to produce emotionally resonant, accessible stories in resource-conscious environments.

AIM

To explore how motion comics can deliver emotionally resonant narratives through a practice-based research approach, focusing on independent digital media production.

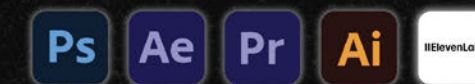
OBJECTIVES

- To explore the narrative and emotional potential of motion comics as a hybrid digital storytelling format.
- To examine the effectiveness of techniques such as limited animation, narration, and sound design in eliciting emotional responses.
- To reflect on the creative development of My Mysterious Dream Girl through a practice-based research methodology.
- To evaluate the benefits and challenges of using motion comics for independent creators.
- To assess audience emotional engagement using the Self-Assessment Manikin (SAM) tool and qualitative feedback.

METHODOLOGY

This project follows a **Practice-Based Research (PBR)** framework, integrating reflective production methods with iterative design. It combines creative experimentation with audience evaluation to study the emotional impact of motion comics. Data was collected through an **online survey using the Self-Assessment Manikin (SAM) tool** and open-ended questions to assess viewer engagement across valence, arousal, and dominance.

TOOLS



CONCLUSION

My Mysterious Dream Girl demonstrates the creative and emotional capabilities of motion comics within independent production. As one of the few known motion comics produced by a Bruneian student-animator, the project contributes to local digital storytelling by showing how resource-conscious design can achieve emotionally resonant outcomes. Findings support further exploration of motion comics as a medium that aligns with the viewing habits of digital-native youth in Brunei and Malaysia.

PROBLEM STATEMENT

- Emotional Disconnection in Digital Media:** Short-form visuals often lack emotional depth, disengaging digital-native youth who seek affective, narrative-rich content.
- Lack of Emotionally Driven Fictional Motion Comics:** Southeast Asian motion comics remain focused on commercial or educational themes, with few intimate, student-led projects exploring introspective fiction.
- Barriers in Full Animation:** High costs and labour demands make full animation challenging or unfeasible for solo creators; motion comics present a more accessible solution.
- Limited Practice-Based Research:** There is a research gap in documenting motion comic production through a creative, reflective lens—especially on emotional design and workflow.

RESULTS & DISCUSSION

- Viewers reported feeling pleasant, moderately aroused, and emotionally balanced, matching the intended tone.
- Visual aesthetic and sound design were most cited for emotional impact.
- Findings validate that motion comics can deliver emotionally resonant experiences even with limited resources.
- Young adult audiences engaged well with the story's mood and pacing, affirming the format's relevance for digital-native viewers in Brunei and Malaysia.

MOTION COMIC OUTPUT



Scan to watch on YouTube



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FEATURES



As part of The Portfolio 2025, a dedicated Instagram account has been established under the handle @theportfolio.utbcc. This platform serves to showcase the students' creative works whilst also introducing the lecturers who have guided the programme. In addition, specially developed Instagram filters provide an interactive element, enabling audiences to engage with the portfolio through a digital medium.

SCAN FOR INSTAGRAM PROFILE



@theportfolio.utbcc



THE PORTFOLIO COMMITTEE

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Front Row:

(L-R): Nurin binti Suffian, Norizzati Syahirah binti Abdullah, Siti Nurhafizah binti Md Abu Soffian, Nur Sabariah Aliah binti Kassim Selamat, Muhammad Zakwan bin Haji Zunaiddi, Muhammad Hasbol Wafi bin Sertini, Ak Saiful Nasri bin Pg Zaini.

IN COLLABORATION



جابتن بوروه
JABATAN BURUH



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