

**Creating Efficient Bungalow Interior and Exterior Designs
Using GIS Story Maps**

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**Final Year Project Report Submitted in
Partial Fulfillment of the Requirements for the
Diploma in Geospatial Technology
In the College of Built Environment
Universiti Teknologi MARA**

JULY 2024

ABSTRACT

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The ease of making changes inspired Revit's name, a contraction of Revise-Instantly. At the heart of Revit is a parametric change propagation engine that relies on a new technology, context-driven parametric, which is more scalable than the variation- and history-driven parametric used in mechanical CAD software. Revit required for Autodesk Revit is a powerful cloud-based tool for managing BIM workflows that can accelerate and improve the design process for anyone in the AEC industry. It creates super-realistic and dynamic 3D models of any structure and allows multiple stakeholders to make real-time changes to the project. To use Revit software, the user must have knowledge of the tools available in Revit as well as learn how to work or perhaps one from scratch at home. To overcome this problem, the ArcGIS Story Map shows the steps to build a house from grid to finish. Users will learn the uses and functions of tools on the ribbon. A limitation of this software is that curtain wall doors do not have the same parameters as conventional doors in Revit Parameters regarding host information is not the same for walls and curtain walls. For example, wall thickness.

Keywords: Revit 2024, ArcGIS Story Maps

ACKNOWLEDGEMENT

Alhamdulillah, praise and thanks to the presence of Allah SWT because with His grace and abundance, we were able to complete this project within the given time period. First, our special thanks to my supervisor, Sr. Ts. Dr. Suzanah binti Abdullah for guiding us throughout our research. In addition, our supervisor Sr. Ts. Dr. Suzanah binti Abdullah has guided us by giving us ideas to complete the project and providing support for our project.

My deepest appreciation to my beloved family, especially my father and mother

In addition, for Aiman's family, aunty has provided support. They have been our biggest supporters and thank you for your prayers and encouragement.

Lastly, we would want to express my gratitude to my pals

In addition, we would want to express my gratitude to all of my students and helpers with this project.

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CHAPTER 1

INTRODUCTION

1.0 BACKGROUND OF STUDY

The fusion of Geographic Information System (GIS) technology with architectural design has advanced significantly. Story maps are employed to depict the narrative to guide the certain process of a bungalow house which is covering both interior and exterior aspects. This integrative enhances efficiency in refining concepts and creating architectural design, while also offering new avenues for visualizing and detailing interior and exterior. This combination of GIS and design not only increases efficiency in improving ideas and developing architecture but opens innovative spaces for visualizing and creating more detailed interiors and exteriors for architecture. This can create a more specific bungalow with neat and compact detailing to reflect the actual architectural condition before carrying out construction. The concept of modern style is characterized by clean lines and simplicity and focus is given to the functionality of the house. It embodies minimalism, sleek design, and an emphasis on open space and natural light. Neutral color palettes, such as white, black, and gray, are often used to create a sense of simplicity and sophistication. Concrete, metal, and glass are examples of contemporary materials used in design. The counterpart to a clear and uncomplicated shape approach is followed by furniture and decor. The idea of modern style produces a sleek, classic look that is defined by efficiency, modern elegance, and order. The concept of tropical style is inspired by the lush beauty of the tropics, incorporating elements that evoke a sense of relaxation and paradise. The concept includes bright colors, natural materials, and a seamless blend of interior and exterior spaces. It emphasizes abundant greenery, such as tropical plants and palm trees, along with natural light and ventilation. Furniture and