

**GEOSPATIAL VISUALIZATION OF ESTATES RENTAL USING  
GOOGLE MAPS**

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**UNIVERSITI UTARA MALAYSIA**

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# **GEOSPATIAL VISUALIZATION OF ESTATES RENTAL USING GOOGLE MAPS**

A project submitted to Dean of Postgraduate Studies and Research in partial  
Fulfillment of the requirement for the degree  
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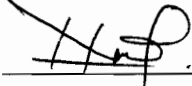
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## **ABSTRACT**

*Location is the main important thing for an accommodation-seeker who is looking for a place for rent or to buy a property. Searching for rental accommodation can be a difficult and frustrating process. Many hours or days must be spent searching through numerous disparate sources of property advertisements in order to locate suitable candidates. This problem mostly facing the international students in Malaysia when they are searching for rental accommodation. Researcher aim to provide just such support with GVERGM system for rental property recommendation using Google Maps to solve this problem, currently focused on international students in Malaysia.*

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Salem S. M. Khalifa

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## **LIST OF ABBREVIATIONS**

API	Application Programming Interfaces
ASP	Active Server Pages
CBR	Case Based Reasoning
CSS	Cascading Style Sheets
GIS	Geographic Information System
GUI	Graphical User Interface
GVERGM	Geospatial visualization of estates rental using Google maps
HTML	Hyper Text Markup Language
HTTP	Hyper Text Transfer Protocol
IBM	International Business Machines
PHP	Personal Home Page
REV	The Real Estate Visualizer System.
SPSS	Statistical Package For Social Science
SQL	Structured Query Language
UML	Unified Modeling Language
UUM	University Utara Malaysia
WAP	Wireless Application Protocol
XML	Extensible Markup Language

# CHAPTER 1

## 1.1 Introduction

According to Wiley and Ltd, (2006); Odlyzko, (2001) the Internet has really become in latest years as a source of properties for rent and sale. The web site interface provides a mechanism for customers to search for/access content, conduct transactions, and to communicate and also provides a real-estate location along with the areas landmarks using technology of Geographic Information System (CHENG et al., 2009).

## 1.2 Problem Statement

One of the most important issues for international students who are studying in UUM at Sintok is to find a place near by the university to stay stable and comfortable. Most students who are looking for estates for rent are using news papers where they get only ordinary information without any further details like a general location and estate description. So students have to keep track more than one news papers' classifications, which are inefficient techniques due to it requires much effort in searching and consumes more time and money (Hurley & Wilson, 2001).

Before international students start looking for the housing, they need to have a clear idea of what type of rental property they are looking for (Wiley & Ltd, 2006). Looking for the housing, mostly is decided according to the type of apartment building or Town house,

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