

NURUL FATIHAH BINTI ALIAS

BACHELOR OF SURVEYING SCIENCE AND GEOMATICS (HONOURS)

AUGUST 2023

DEVELOPING GIS WEB-BASED FOR GEOMATIC INDUSTRIAL
TRAINING COMPANY IN SELANGOR AND KUALA LUMPUR

NURUL FATIHAH BINTI ALIAS

2021468604



COLLEGE OF BUILT ENVIRONMENT
UNIVERSITI TEKNOLOGI MARA
PERLIS

AUGUST 2023

**DEVELOPING GIS WEB-BASED FOR GEOMATIC INDUSTRIAL
TRAINING COMPANY IN SELANGOR AND KUALA LUMPUR**

NURUL FATIHAH BINTI ALIAS

2021468604



**Thesis submitted to the Universiti Teknologi MARA
Malaysia in partial fulfillment for the award of the degree
of the Bachelor of Surveying Science and Geomatics
(Honours)**

AUGUST 2023

DECLARATION

I declare that the work in this dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for undergraduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

Name of Student : Nurul Fatihah Binti Alias

Student I.D. No. : 2021468604

Programme : Bachelor Of Surveying Science and Geomatics (Hons)

Faculty : College of Built Environment

Thesis : Developing Web-Based Geographic Information System (GIS) Application for Geospatial Database of Industrial Training Company in Selangor and Kuala Lumpur

Signature of Student :

Date : August 2023

ABSTRACT

This research is focused on development of web-based using Geographic Information System (GIS) Application for industrial training company in Selangor and Kuala Lumpur. Generally, industrial training is a work experience that is relevant for the student to professional development prior to graduation. This is one of the requirements for some courses student must complete before graduate. One of the courses are required to take industrial training is Geomatic course. Then, the issues that usually become concern for the student is to determine the company for internship. Moreover, there are many companies that established in Malaysia. So, the aim of this research is to develop web based for Geomatic industrial training course in Selangor and Kuala Lumpur. The objectives of this research that needed to achieve the aim of this research is i) to identify the distribution of the industrial training company based on geomatics industry field which is land survey (LS), geographic information system (GIS) and remote sensing (RS), ii) to develop web-based for geospatial database of industrial training company in Selangor and Kuala Lumpur and iii) to evaluate the effectiveness of web-based through questionnaire. For this research, the web map is used GIS Application which is ArcGIS Online and embedded in web-based by used server-side programming languages. The result of the objectives of this research are the distribution of the industrial training company based on geomatics industry field which is land survey (LS), geographic information system (GIS) and remote sensing (RS) in Selangor and Kuala Lumpur. Following the development of web-based for geospatial database of industrial training in Selangor and Kuala Lumpur. Lastly, the evaluation of the effectiveness of web-based through questionnaire.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	DECLARATION	i
	ABSTRACT	ii
	ACKNOWLEDGEMENT	iii
	TABLE OF CONTENTS	iv
	LIST OF FIGURES	vii
	LIST OF TABLES	ix
	LIST OF ABBREVIATIONS	x
1	INTRODUCTION	1
	1.1 Research Background	3
	1.2 Problem Statement	5
	1.3 Research Questions	5
	1.4 Aim	5
	1.5 Objectives	5
	1.6 Scope and Limitation	5
	1.6.1 Study Area	5
	1.6.2 Data Used	6
	1.6.3 Software Used	7
	1.7 General Methodology	7
	1.8 Significance of Study	8
	1.9 Summary	8
2	LITERATURE REVIEW	10
	2.1 Introduction	10
	2.2 Industrial Training	10