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JUDUL: _____Job Advertising Subsystem for PIN-IT Social Network_____

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Job Advertising Subsystem for PIN-IT Social Network

AHMAD ALIF BIN AZHAR

This report is submitted in partial fulfilment of the requirements for the Bachelor of Computer Science (Software Development)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2013

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DECLARATION

I hereby declare that this project report entitled

Job Advertising Subsystem for

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is written by me and is my own effort and that no part has been plagiarized without citations.

STUDENT : _____ Date: 29 AUG 2013

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DEDICATION

This Project is dedicated to my respective parents who have been my constant source of inspiration, without whose caring support it would not have been possible for me to done this final year project. Not forgettable thank you to my supervisor, Miss Nuridawati Binti Mustafa which always give me advice and guidance through the whole project timeline. Without her guidance and supervision, there is no way I can finish this project completely.

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ABSTRACT

Pin.It is a web application that utilizes Bing Maps from Microsoft as the main highlight. Pin.It will bring a new and different style of social network compared to current web applications where in this application, every activity will be shared on the Bing Map. Pin.It will be using geotagging technology, a technology where it is allow users marking anything such as status updates, documents, video, photo or other media with a location. This application has a few category or subsystems, one of it is Job Advertising Subsystem. Job Advertisement category allows users to publish job advertisements, and also view latest job advertisements that is posted by other users. The other function is users can add the posted job advertisements into their watch list. The main highlights here is, when users post the new job advertisement, the system by default will saved current users location by invoking Global Positioning System (GPS). User also can choose others location using provided map interface on the web application. After the advertisement is saved, it will be automatically posted at the Newsfeed section in the main Pin.It system. Each job has links that will show the job advertisement location and also users can know the driving route from their current location to the posted job advertisement location which is make the jobs finding process easier and more interactive. This system is a web based system that using PHP as the server side scripting and HTML for the interface alongside others language such as CSS and JavaScript. SQL language is used as the database language and it is managed using PHPMyAdmin while the Apache is selected as the server.

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ABSTRAK

Pin.It adalah aplikasi web yang menggunakan 'Bing Maps' dari Microsoft sebagai paparan utama. Pin.It akan membawa gaya rangkaian sosial baru yang berbeza berbanding aplikasi web semasa di mana dalam aplikasi ini, setiap aktiviti akan dikongsi pada *Bing Maps*. Pin.It akan menggunakan teknologi *geotagging*, teknologi di mana ia membenarkan pengguna menandakan apa-apa aktiviti seperti kemas kini status, dokumen, video, gambar atau media lain dengan lokasi. Aplikasi ini mempunyai beberapa kategori atau pecahan sistem, salah satu daripadanya adalah 'Job Advertising Subsystem'. Kategori ini membolehkan pengguna untuk menerbitkan iklan kerja, dan juga melihat iklan pekerjaan terbaru yang dimasukkan oleh pengguna lain. Fungsi lain ialah pengguna boleh menambah iklan pekerjaan ke dalam senarai menonton mereka. Aktiviti utama di sini ialah, apabila pengguna menghantar iklan kerja baru, sistem secara lalai akan menyimpan lokasi pengguna semasa dengan memanipulasi *Global Positioning System (GPS).* Pengguna juga boleh memilih lokasi lain dengan menggunakan peta yang disediakan di antaramuka aplikasi web. Selepas iklan disimpan, ia akan dicatatkan secara automatik di bahagian *Newsfeed* dalam sistem utama Pin.It. Setiap pekerjaan mempunyai rangkaian akses yang akan menunjukkan lokasi iklan jawatan dan juga pengguna boleh mengetahui laluan memandu dari lokasi semasa mereka dengan lokasi iklan pekerjaan yang disiarkan yang akan membuat kerja-kerja mencari proses lebih mudah dan lebih interaktif. Sistem ini adalah satu sistem berasaskan web yang menggunakan PHP sebagai *server side scripting* dan HTML untuk antara muka di samping bahasa lain seperti CSS dan JavaScript. Bahasa SQL digunakan sebagai bahasa pangkalan data dan ia diuruskan menggunakan phpMyAdmin manakala Apache dipilih sebagai *server.*

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LIST OF ABBREVIATIONS

GPS	-	Global Positioning System

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CHAPTER 1

INTRODUCTION

Pin.It is a web application that utilizes Bing Maps from Microsoft as the main highlight. Pin.It will bring a new and different style of social network compared to current web applications where in this application, every activity will be shared on the Bing Map. Pin.It will be using geotagging technology, a technology where it is allow users marking anything such as status updates, documents, video, photo or other media with a location. This not only help people find images and information based on a location, but it can also be used to create location-based news, feeds and status updates.

This application has a few category or subsystems, one of it is Job Advertisement Application. Job Advertisement category allows users to publish job advertisements, and also view latest job advertisements that is posted by other users. The other function is users can add the posted job advertisements into their watch list.

The main highlights here is, when users post the new job advertisement, the system by default will saved current users location by invoking Global Positioning System (GPS) whether by detecting the users Internet Protocols (IP) number or using built in GPS system. User also can choose others location using provided map interface on the web application. After the advertisement is saved, it will be automatically posted at the Newsfeed section in the main Pin.It system.

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Each job has links that will show the job advertisement location and also users can know the driving route from their current location to the posted job advertisement location which is make the jobs finding process easier and more interactive.

1.1 Problem Statements

Based on the observations conducted in the current websites, there are few problems and weaknesses that were identified. The problems are listed as below:

- Current websites does not include interactive map based job advertisement.
- Job searcher did not get the latest updates about the new jobs posting.
- The absolute location of the company that provide job vancancy can not be determined by the job searcher.

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1.2 Objectives

- To create interactive map based job advertisement that will attract user to use the system.

  -Users can use the the system to find the job advertisemenst with the map attached. The interface of the system used the new design style that is used by Microsoft which is called Metro style, proved to be user friendly design style.

- Provide latest job advertisement updates to the user.

  -After users posted a new job advertisement, the posted advertisement will directly updated into the main Pin.It system thus give user acknowledgement that there is new job advertisement is posted.

- To make ease for the job searcher to find the location of the company by using geotagging technology and map based web application.

  -The system will provide the location for every job advertisements using the interactive map and user can know the driving route to the actual job location.

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1.3 Scopes

Target User

- The target user of the system is the people who is finding for new job and for the company that want to advertise their job advertisement.

Functionality

- Provide interactive map based job advertisement module which is includes standard functions such as add new job advertisement.
- Records the location of the job advertisement.
- Create driving route for the user from their current location to the posted job location.

System Type

- Job Advertising Web Application using fully web based programming language which is the server side scripting uses PHP and the user interface and error handling using the combination of HTML, CSS, JavaScript and jQuery while for the database we use MySQL. This application is categorized under web-based system type.

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1.4 Project Significance

This system will provide more interactive functions to the users' whether as a company representative who posted a job or for the job searcher. The map will help the job searcher to find the job location easier than before and with additional function to create the route from the users' location to the posted job location.

1.5 Expected Output

This system will give advantage to the company and job searcher to create new job advertisement and find new job. By implementing the use of geotagging technology, it will help users who finding a job to navigate to the posted job location. It will avoid the users to lost in finding the actual place or company that posted the job advertisement.

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1.6 Conclusion

As a conclusion, the Job Advertising Web Application using specially functions and features with interactive map based job advertisement that will attract user to use the system, can provide latest job advertisement updates to the user, and ease job searcher to finding the location of the company by using geotagging technology. All the limitations found on the current websites that is at the counter manage to find its solutions by implementing Map Based Job Advertisement.

Chapter 2 will discuss on the Literature Review and the Project Methodology. This part will review the previous project and make a comparison with project that has been proposed. Besides that, this chapter also explains about the methodology that will be used in this project.

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CHAPTER 2

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

This chapter focuses about literature review and project methodology that will be used for developing this system. Literature review are searching, collecting, analysing and drawing conclusion from all arguments raised in relevant body of literature. It is important to give the explanations of choosing the project.

"According to Cooper (1988), a literature review uses as its database reports of primary or original scholarship, and does not report new primary scholarship itself". Fact and finding will discuss and review about approach and related research, reference and other findings about this system. Next, it also states other approaches that will be used in this project by making comparison with previous approach.

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2.2 Facts and Findings

This section will cover the facts and findings related on the Job Advertising Web Application that is developed.

2.2.1 Domain

Job Advertising Web Application will be use by the people who is finding for new job and for the company that want to advertise their job advertisement. This system is being developed based on web based system that allows users to access through Internet. Other than that, this system will create an interactive map based job advertisement, provide latest job advertisement updates and to ease for the job searcher to find the location of the company by using geotagging technology and map based web application.

2.2.2 Existing System

a) Bing Maps

Bing Maps from Microsoft belong to Bing Services, which provides programmatic access to Bing data via APIs. The services include the common Bing API and Bing Maps. The Bing API provide developers easy access to Bing content types such as Images, Instant

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