



Faculty of Computer Science and Information Technology

UNIMAS Stall Web-based Information System

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Bachelor of Computer Science with Honours (Network Computing)

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UNIMAS Store Operation System

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VERIFICATION OF FYP REPORT CORRECTION AND SUBMISSION
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ABSTRACT

The purpose of this project is to help students in UNIMAS have a notice about the stores in UNIMAS because currently the store in the UNIMAS does not have any kind of website to show the notice of the stores. By doing this project, it will have students time because the website will show to the students either the stores id open or close for the day. So, students will be able to finish their task or they be able to plan out where they want to eat since if the students are staying in the college inside UNIMAS, they cannot cook their own meal. Secondly, this project will help the shop owner to announce the job vacancy at their store. So, if the students are interested, they will just apply through the website that will be developed.

ABSTRAK

Tujuan utama projek ini dijalankan adalah untuk membantu memberi notis kepada para pelajar di dalam UNIMAS tentang kedai-kedai yang ada di dalam UNIMAS. Hal ini kerana buat masa ini tiada lagi laman sesawang yang memberitahu notis mengenai kedai-kedai di UNIMAS samada kedai itu tutup ataupun beroperasi pada hari yang berkaitan. Dengan ini, projek ini dapat menjimatkan masa para pelajar dan mereka dapat menyiapkan tugas yang ada dengan lebih cepat serta mereka juga boleh merancang lebih awal di mana mereka ingin menjamu selera pada hari tersebut kerana bagi pelajar yang menginap di kolej di dalam UNIMAS mereka tidak dibenarkan memasak. Seterusnya, para peniaga juga dapat mewartakan jika terdapat kerja kosong di kedai mereka. Jika terdapat pelajar yang berminat, pelajar tersebut dapat memohon kerja tersebut melalui laman sesawang yang akan dibuat nanti.

CHAPTER 1 INTRODUCTION

1.1 Background

In this era of globalization, an online system is widely used. It is because it helps make works much easier. In this project, we are going to develop an online system for store in UNIMAS. It is because even though UNIMAS is an established institution, I noticed that it still does not have an appropriate system to handle the stores within the institution.

The features that will be included in this system are the operation status of the store whether its close or open for the day and the vacancy job that available at the moments for the students if they are searching for part time job.

1.2 Problem Statement

The problem faced by students in UNIMAS is the cafeteria does not have a media to let the students know which store is open or close on that day.

Besides, the students also find it hard to search for a part-time job in UNIMAS because they do not know where or how to apply for the part-time job at the stores.

1.3 Objectives

- To design and develop a web-based system for UNIMAS stall
- To evaluate the effectiveness of the system

1.4 Procedures/Methodologies

To develop this propose system, Waterfall model is used. Waterfall is a very simple and easy to manage. Phases are processed and completed one at a time.(March 6,2013). It is very simple to understand and use. Besides, each phase must be completed before the next phase can begin and there is no overlapping in the phases. Waterfall model is the earliest System Development Life Cycle also known as SDLC approach that is being used for software development. The whole process of software development is divided into separate phases. The outcome of one phase acts as the input for the next phase sequentially. This means that any phase in the development process begins only if the previous phase is complete. As Waterfall model illustrates the software development process in a linear sequential flow; hence it is also referred to as a Linear Sequential Life Cycle Model.(Lakshay Sharma, April 17, 2016).

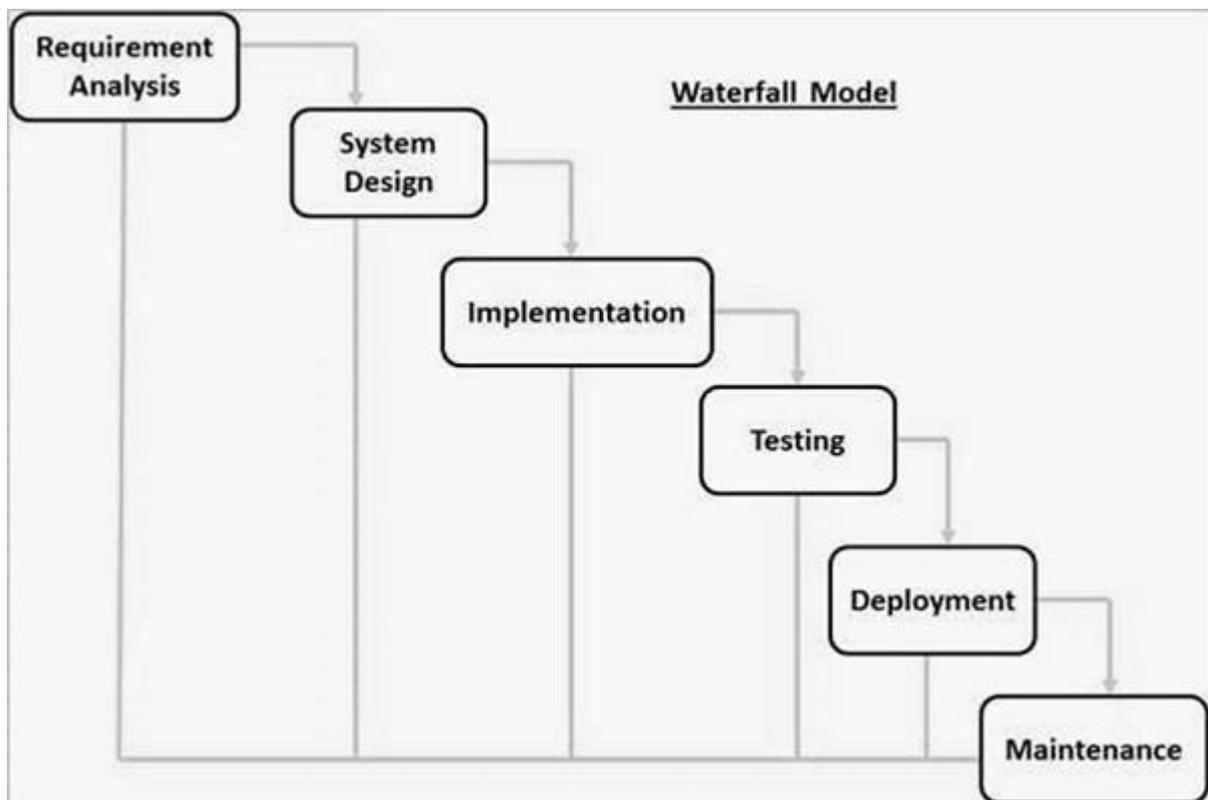


Figure 1. 1 Waterfall model

The figure above shows the sequential phases in the Waterfall model. The sequential phases in Waterfall model are :

- **Requirement Analysis** : all possible requirements of the system to be developed are captured in this phase and documented in a requirement specification document.
- **System Design** : the requirement specifications from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture.
- **Implementation** : with inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as Unit Testing.
- **Integration and Testing** : all the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
- **Deployment of system** : once the functional and non-functional testing is done; the products is deployed in the customer environment or released into the market.
- **Maintenance** : there are some issues which come up in the client environment. To fixed those issues, patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these

changes in the customer environment. Since this proposed system is just a prototype, so it will not be applied in this project.

There are some advantages and disadvantages on the Waterfall model. The advantages of waterfall development are that it allows for departmentalization and control. A schedule can be set with deadlines for each stage of development and a product can proceed through the development process model phases one by one. Development moves from concept through design, implementation, testing, installation, troubleshooting, and ends up at operation and maintenance. Each phase of development proceeds in strict order. The disadvantages of waterfall development is that it does not allow much reflection or revision. Once an application is in testing stage, it is very difficult to go back and change something that was not well-documented or thought upon in the concept stage. These are some major advantages and disadvantages of Waterfall Model as follows :

| Advantages | Disadvantages |
|--|---|
| ● Simple and easy to understand and use. | ● No working software is produced until late during the life cycle. |
| ● Easy to manage due to the rigidity of the model. Each phase has specific deliverable and a review process. | ● High amounts of risk and uncertainty. |
| ● Phases are processed and completed one at a time. | ● Not a good model for complex and object-oriented projects. |
| ● Works well for smaller projects | ● Not suitable for the projects |

| | |
|--|--|
| where the requirements are very well understood. | where the requirements are at a moderate to high risk of changing. |
| ● Clearly defined stages. | ● It is difficult to measure progress within stages. |
| ● Well understood milestones. | ● Cannot accommodate changing requirements. |
| ● Easy to arrange tasks. | ● Adjusting scope during the life cycle can end the project. |
| ● Process and results are well documented. | ● Poor model for long and ongoing projects. |

Table 1.1 Advantages and disadvantages of Waterfall Model

In conclusion, despite the disadvantages of Waterfall model, it is still the most suitable model to be used for this proposed model. It is because the proposed system that will be developed is in a small scale of projects and it will be build in short amount of times.

1.5 Project Scope

The UNIMAS Store Operation System is a system that will make store in UNIMAS become more efficient. It is because through this system, it will always update the status about the store. Since the store in UNIMAS still does not have an appropriate system, so this system is most-likely best to apply. This system will help the store's operators to make announcement at their page. As example, if they had to close the store early for that day, they can update at the system so that the students can check online whether their store is close or open. Besides, the system also will help store's operators to promote the job vacancy available for students to apply. This system can also be used by vendors that selling their goods when there is college, faculties or UNIMAS events.

1.6 Significant of Project

The impact of this system that it will help store's operator to monitor their store operations even if they are going away. Besides, it will record students information in the system which will ease the store's operators to find the part-time workers. Despite that , the students also have an appropriate platform for them to apply part-time job. It will help them to look up at the job advertise by the store's operators in the system than they have to go ask one by one stores for part-time job. This system will surely saves everyone times and improve the stores management becomes more systematic.

1.7 Project Schedule

| Title | Date | Duration(days) |
|---|-------------------------|----------------|
| FYP UNIMAS Store Operation System | 13.09.2019 - 30.01.2020 | 100 |
| Brief Project Description | 13.09.2019 - 29.09.2019 | 11 |
| Full Project Proposal | 30.09.2019 - 19.10.2019 | 15 |
| Chapter 1 : Introduction | 20.10.2019 - 26.10.2019 | 5 |
| Chapter 2 : Literature Review | 27.10.2019 - 16.11.2019 | 15 |
| Chapter 3 : Requirement Analysis and Design | 17.11.2019 - 8.12.2019 | 15 |
| Submission of Final Year Project 1 | 9.12.2019 - 15.12.2019 | 5 |
| Submission of the proposed/revised structure of fyp report, title and ganth chart | 16.12.2019 - 17.02.2020 | |
| Chapter 4 : Implementation and testing | 18.02.2020 - 23.03.2020 | 12 |
| Chapter 5 : Conclusion and further work | 14.03.2020 - 06.04.2020 | 21 |
| Draft FYP 2 Report | 07.04.2020 - 15.04.2020 | 8 |
| Final report | 16.04.2020 - 29.04.2020 | 13 |
| Fyp symposium | 05.05.2020 - 06.05.2020 | 2 |
| Amendment and modification | 05.05.2020 -23.05.2020 | 19 |
| Submission of Final Year Project Full Report | 24.05.2020 - 29.05.2020 | 5 |

Table 1. 2: Submission date of the tasks

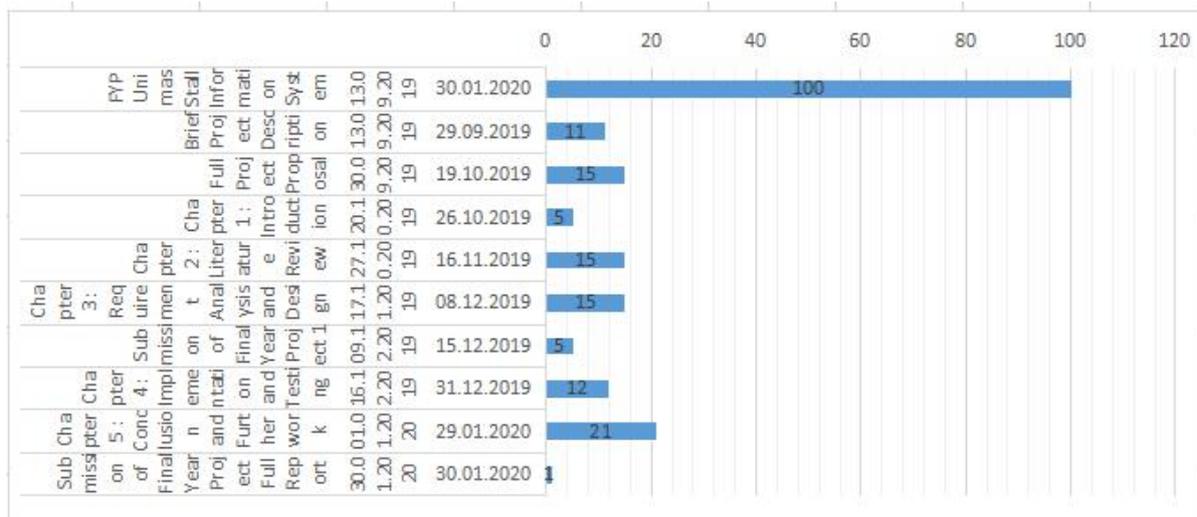


Figure 1. 2 Gantt Chart

1.8 Expected Outcome

Outcome of this project is a mobile web system that can manage the store operation status more efficient and saving more time. To allow the students to view the status of the store that day whether it is open or close. To allow students to apply for part-time job that is advertise by store's operators.

1.9 Project Outline

UNIMAS Stall Web-based Information System is made through 5 chapters. The first is introduction. This is the chapter where all about the overview and the introduction of the propose project will be discuss. Next is literature review which is also known as chapter 2. in this chapter, we will be doing some review of the articles that is related to the project propose. This chapter also will provide the comparison of the previous system if available. The third one is Requirement analysis and design which is chapter 3. In this chapter , we will be focus more on the methodology that can be used to make the project propose more systematic. The forth chapter is about implementation and testing. For this chapter, a prototype will be

produced and tested before doing the next step. Last but not least, chapter 5 which is conclusion and future work. This chapter will conclude all the things that we had been done. It also will have some assumption of the features that can be added to the project and the problems that will occur in future.

In conclusion, UNIMAS Store Operation System will go through all of this chapters before it is complete. All the acquire chapters will help in improving the project propose. The chapters involved also will help in making sure that project propose is a successful and ready to be used.

CHAPTER 2 LITERATURE REVIEW

2.1 Introduction

Online shopping is widely used nowadays but online system to monitor and searching for workers are still rarely used. Most of the system that is available for today's world either system for online shopping or just for applying job. It does not have a features that allows the user to apply for job or selling and buying things at one system.

2.2 Existing system

There are two existing system that are quite similar features and functionality with my proposed project. The two existing systems are Google map and Jobstreet.com.

2.2.1 Google map

Google is a web mapping service developed by Google. It offers satellite imagery, aerial photography, street maps, 360°panoramic views of streets (Street View), real-time traffic condition, and route planning for travelling by foot, car, bicycle and air (in beta), or public transportation. Google Maps began as C++ desktop program at Where 2 Technologies but in October 2004, the company was acquired by Google which converted it into a web application. Google Maps was launched in February 2005. The reasons why I choose Google Map as is because it offers an API that allows maps to be embedded on third-party websites. Besides, Google Map Maker allowed users to collaboratively expand and update the service's

mapping worldwide but was discontinued from March 2017. However, crowdsourced contributions to Google Maps were not discontinued as the company announced those features would be transferred to the Google Local Guides program.

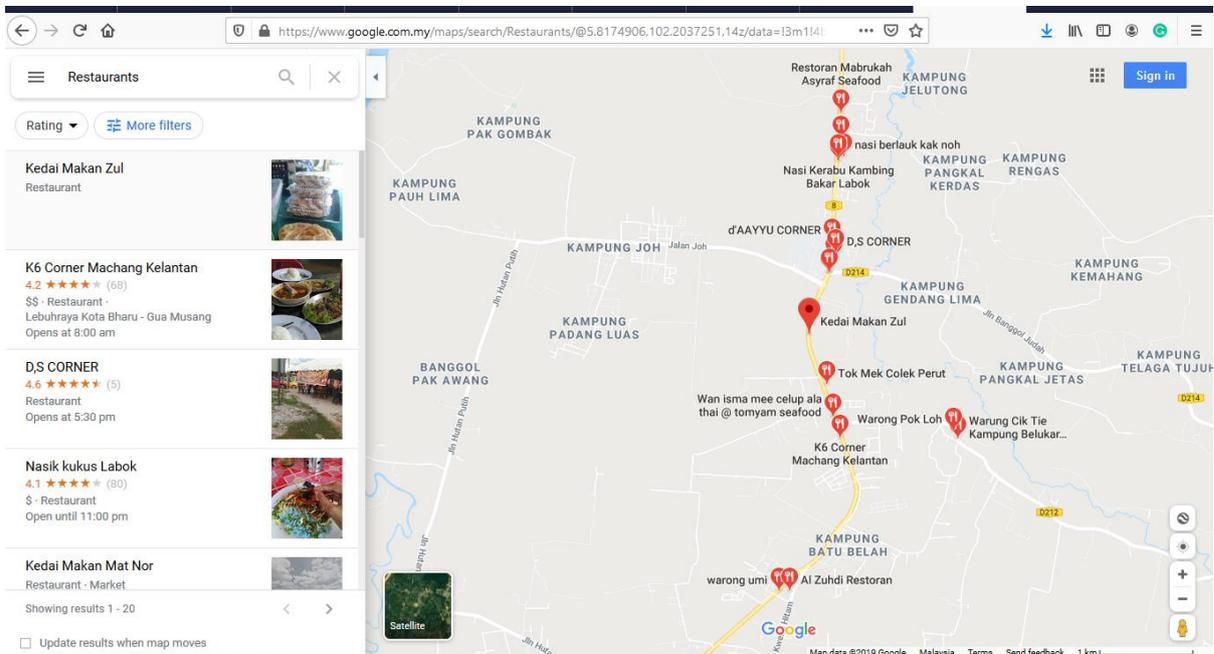


Figure 2. 1 Information on Google Map

Google Map also have some features that are requires in the proposed system. As you can see at the left side of the maps, it has a bar that shows the list of restaurants on the chosen area that is being selected and it also shows the place in the maps.

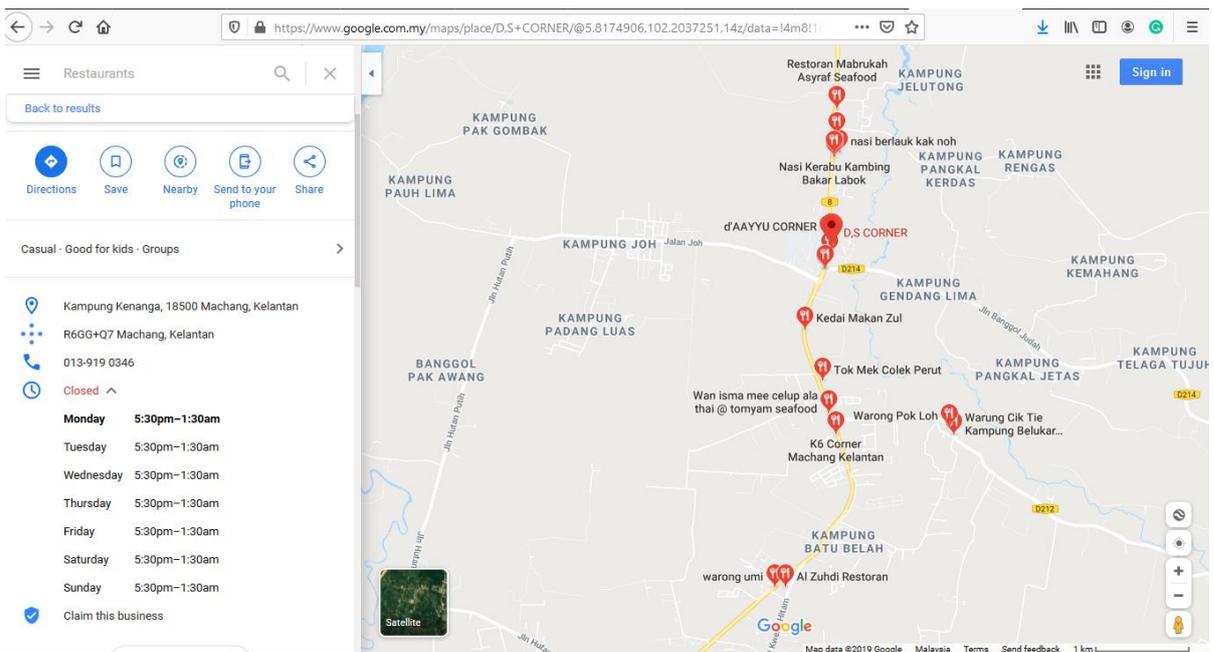


Figure 2. 2 Opening and closing time

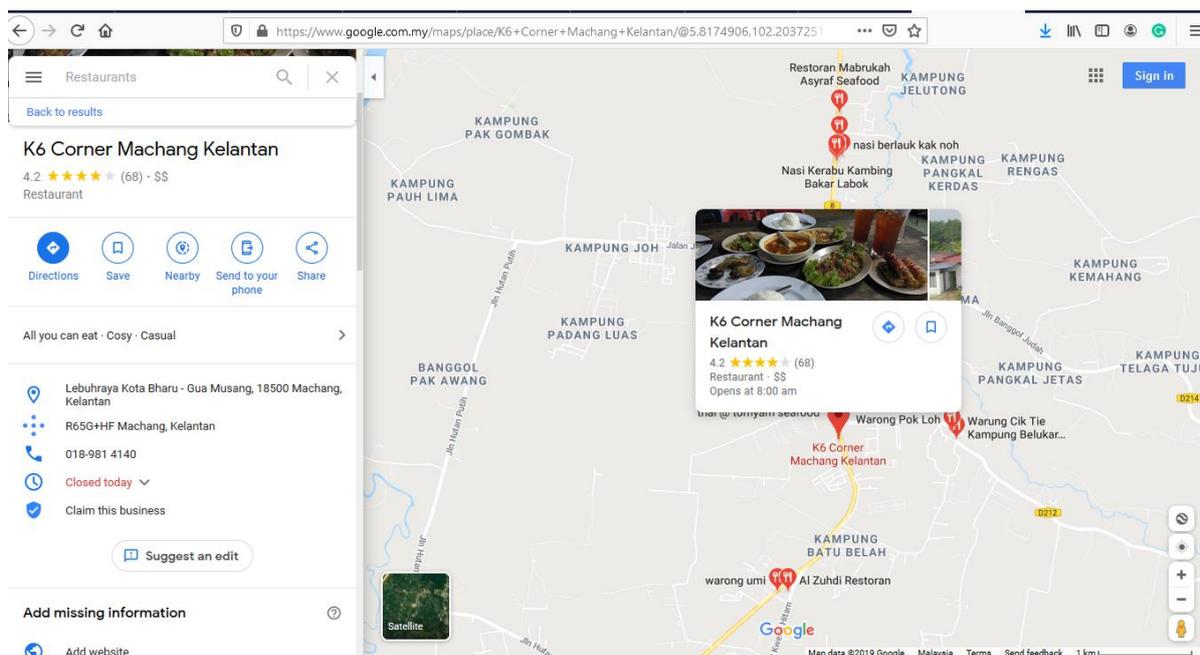


Figure 2. 3 Restaurant information

Last but not least, in figure 2.2 of the maps, we can see that there is information about the opening and closing time of the restaurant while in figure 2.3, we can see if the restaurant is open or close for the day. So, with all of this features, that is why I have chosen Google Map as review for my proposed system.

2.2.2 JobStreet.com

JobStreet.com was founded in Malaysia in 1997. It is the largest online employment company in Southeast Asia's according to Forbes. Its offer various jobs for the job seekers especially fresh graduates. Users can access using a a web browser either in their smartphones or in the desktop. The reasons why I choose JobStreet.com for review is because it is a platform where most of the job seekers using this website. Besides, it also have some features that are included in my proposed system.

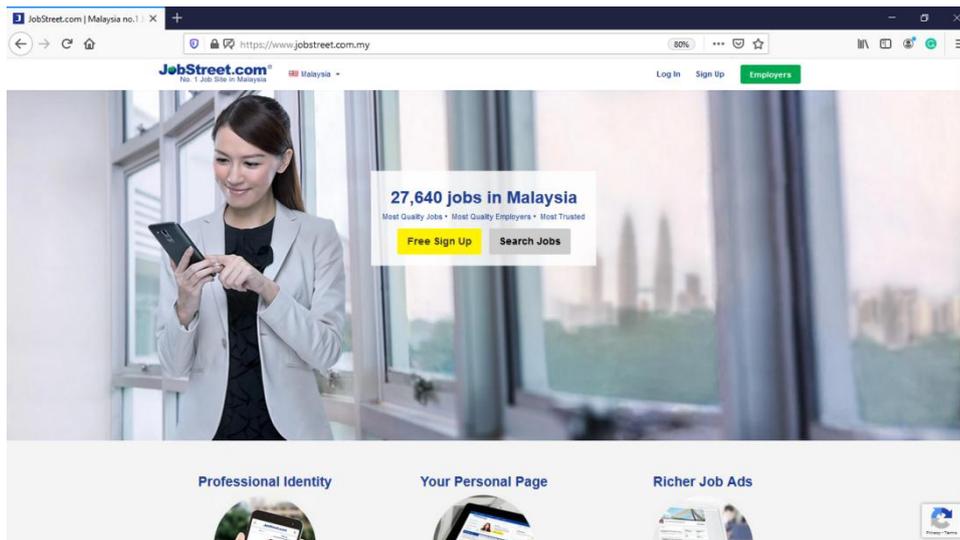


Figure 2. 4 Homepage

Figure 2.4 shows the homepage of JobStreet.com. As we can see in the homepage, the users can choose either want to sign up or search for job. If the users want to search the job, they will be forwarded to the job searching page as it do not require the users to be registered to search for the job but if the users want to apply for the job, the users must have an account to be able to apply for the job.

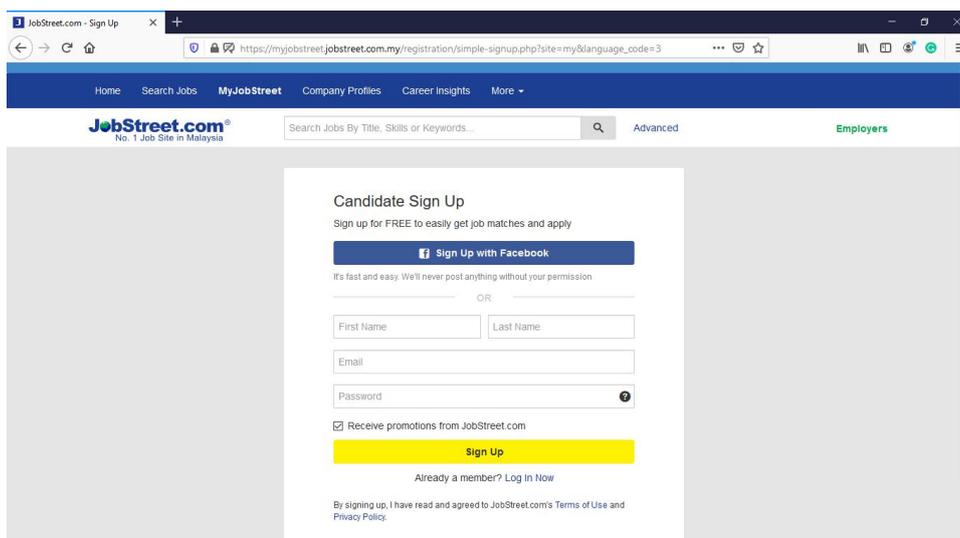


Figure 2. 5 Sign up page

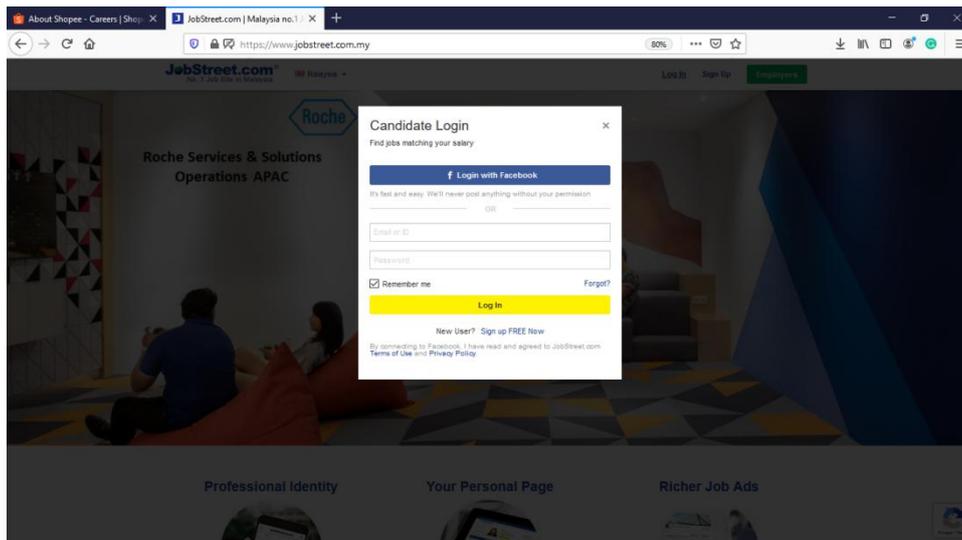


Figure 2. 6 Login page

Figure 2.5 shows the sign up page where new users must be registered first before they can be able to use the website. They also can sign up by using their Facebook account. Upon sign up, the users will be directed to the login page to use the website as in figure 2.6. Since the website is a place for the job seeker to find their dreams job, they can find the job with the criteria that they want such as the job title or keywords, locations, specializations and the minimum salary that they want.

In conclusion, both Google Map and JobStreet.com have their own features that are also requires in the proposed system. So, it is the most suitable review for my proposed system.

2.3 Comparison of features

| | Google Map | JobStreet.com | UNIMAS Store Operation System |
|------------------------|-------------------|----------------------|--------------------------------------|
| Platform | Website and apps | website | website |
| Login | Not require | Require | Require |
| Display status | Yes | No | Yes |
| Integrated chat | No | No | No |