

1MSPOT

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ABSTRACT

Now a days, not all people can remember the road. It is because Malaysia road constantly changing. Most people use application like GPS PAPAGO for driving direction. But not all places we can find using Papago. There are a few places that Papago did not provide. For example 'kedai rakyat 1 Malaysia,' and 'klinik 1 Malaysia'. So it's made user difficult to go to that place. Besides that saving is also important to the people now a days, all of things in this world need to use the money, even wants to pee also need to use money. This paper investigates about problem occurs nowadays such as uncontrolled spending and finally it proposed the 1MSpot to prevent this problem from occurring again. The implementation of this mobile apps system can show the nearest place of 'kedai rakyat 1 Malaysia' and 'klinik 1 malaysia' after that the application will show direction how to go to that place. After that, it can use it as a scanner to scan the barcode of the item to know the details and latest price of the item. Next it can use to make the payment at the kiosk without needing to queue length to make the payment at the cashier. Lastly, it can record all the user payment information made during they buy the items and then it can be reviewed any time any where. The result of the of this mobile app will reduce the time to find 1Malaysia Store, can solve the problem of missing a price tag, can avoid the long queue during made payment at the cashier and then can solve uncontrolled spending.

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LIST OF ABBREVIATIONS

| | |
|--------|---|
| FSKKP | Fakulti Sistem Komputer dan Kejuruteraan Perisian |
| UMP | Universiti Malaysia Pahang |
| 1MSPOT | 1 Malaysia Spot |
| OS | Operating System |
| DFD | Data Flow Diagram |
| GPS | Global Positioning System |
| KL1M | Klinik 1 Malaysia |
| KR1M | Kedai Rakyat 1 Malaysia |

CHAPTER 1

INTRODUCTION

1.1 Background

It is difficult to imagine if the world without mobile phones today. Instead of just being a communication device, the mobile phone has evolved as the technical tools to handle so much. Mobile phone hardware and software industry are the one of the largest world market. Current Smartphone can enable users to do everything in their hand only.

There a lot of applications that was developed to optimize the uses of the Smartphone and can be downloaded in Google play, iTunes and so on. All that of the application that was developed to help the user to make their life as a simple and easy. One of the problems that occur in nowadays is about the road in Malaysia constantly changing. It made people can't remember road with perfect. Besides that due to the nature of the cheap price at KR1M, majority of consumer change their shopping destination and begin shopping at these mini market and because of this reason, there is a long queue build up along the cashier lane. As a result KR1M

gives a negative shopping experience towards their customer as queue may end up for more than 15 minutes .After that daily expenses are a very complicated problem because its about the money management. According to the increasing the price of daily need many people in Malaysia failed to manage their expenses[1].

Many applications for Smartphone was developed to prevent this problem occur and all of the mobile apps are very useful for the settle down this problem. There are many features on the current mobile apps using GPS, which we can navigate to specific destinations [2]. However, there still did not have an application that can navigate the user to the 1 Malaysia store such as ‘Kedai Rakyat 1Malaysia’ and ‘Klinik 1Malaysia’. My apps is about how to find the nearest 1 Malaysia store and show direction how to go there. Besides that, it also can use it as a barcode scanner to scan the item and then make the payment with it. After that user can record all the payment they made at the 1 Malaysia store so that user can track and manage their expenses.

To solve the problem 1MSpot is an application that provides function, navigate the user from their current location to 1Malaysia store, made a transaction by themselves and also user can check their successful transaction. A user who has installed this application can use this application as a barcode scanner. When the user scans the barcode the details about the item will display. After that, user can add that item to their shopping cart. Next when they finished shopping they can make the payment on the machine provided. When the payment is successful, it will record every single thing user buy include the total price , date and time. So that user can check anytime, anywhere what they buy, how much they spent every month, when they shopping and where they buy that thing. User can choose whether he/she want select 1MSpot through the state or through nearby location. If nearby location it will display the nearest place of 1Malaysia store from their location.If by state it will display 1malaysia store that have on that state.

1.2 Problem Statement

Sophistication of mobile smart phones has always been a consumer frenzy in this era , various types of applications created for the purpose of facilitating everyday life, but in every creation of art will have a more sophisticated to complete the shortfall [3] .

Concerned with matters of 1Malaysia Store, there are many people that do not know where is that 1Malaysia store and how to go there. People often do not remember the direction. In addition, along the way, It is inevitable that certain goods doesn't have price tag on their surface, be it a extremely modern and sophisticated supermarket to the smallest, budget mini market, issue of absent of price tag can't be solved because there are thousands of goods around, the operator may misplace certain product or doesn't aware the price tag is absent. Unfortunately there is a long queue build up along the cashier lane. As a result its gives a negative shopping experience towards their customer as queue may end up for more than 15 minutes. Lastly problem such as cannot manage expenses monthly properly is often in our community, especially for people who already married. Expense Management is very important to ensure that expenditures do not exceed the capacity.

Have the legal sophisticated mobile devices such as smart phones are actually smart enough not otherwise be able to help users solve trivial problems such as lost while traveling, get the price when the price tag missing, long queue at the cashier lane and manage their expenditures.

1.3 Motivation

The management in expenses problem is a general problem for Malaysian due to the increasing price of our daily need. By providing this solution 1MSpot navigator and tracing system will be developed to help and control the expenses. The purpose to do this mobile app is to develop the technology of mobile app and then to optimize the easing of Smartphones application. Besides that, to provide an effective expenses management application system has provided with a barcode scanner. This is because this application needs to use the QR code or Barcode. The user will easily manage their money.

1.4 Objective

To achieve the 1MSpot purposes, the following objectives are set:

- To design the interface and architecture for 1MSpot
- To facilitate the user to go to ‘kedai rakyat 1malaysia’ and ‘klinik 1malaysia’
- To develop mobile application on the Android Platform

1.5 Project Scope

1. System Functionality

This system provides navigation features for users to navigate from their current location to the klinik 1 malaysia or kedai rakyat 1malaysia

2. System User

Mainly focus for 1 Malaysian Product and Malaysian.

3. Operating System

Running on Android operating system

CHAPTER 2

LITERATURE REVIEW

2.1 Introduction

In this chapter, has been discussed several topics related to what the 1MSpot, how technology can help them, the smart phone mobile technology, including application examples already exist in the market, in terms of technological necessities of the operating system that will drive the development of technology 1Mspot, and a bit of info related to what the 1Malaysia Product store.

In addition, the problems encountered have also been identified and methods of project development are also discussed. For the development of these mobile applications, Eclipse have been used.

2.2 1 Malaysia

1Malaysia (pronounced One Malaysia in English and Satu Malaysia in Malay) is an on-going program designed by Malaysian Prime Minister Najib Tun Razak on 16 September 2010, calling for the cabinet, government agencies, and civil servants to more strongly emphasize ethnic harmony, national unity, and efficient governance [4].

2.2.1 1Malaysia Store

1Malaysia Store are a product that has been produced by Malaysian Prime Minister Najib Tun Razak. The purpose of this store is to help decrease the burden of Malaysian. There are a few 1 Malaysia products that have been produced such as 1Malaysian Shop, 1Malaysian Clinics, “Menu Rakyat 1Malaysia” and etc. Mostly all the item in this store are cheaper than others.

2.2.2 Klinik 1 Malaysia

1Malaysia Clinics are community clinics that are strategically located and open daily for 12 hours, from 10am to 10pm. Qualified nurses and medical assistants with at least five years’ experience provide quality treatment for just RM1 (non-Malaysians will have to pay RM15).

There are more than 4million Malaysian come to get treatment on 1malaysia clinic since its open until 14 April 2013. Now there are about 53 1malaysia clinic at Malaysia.

2.2.3 Kedai Rakyat 1 Malaysia

‘Kedai Rakyat 1 Malaysia’ is a shop operating on a mini market format, which provides various basic necessities at low prices. This initiative was inspired by Prime Minister YAB Dato’ Sri Najib Tun Razak on his concerns for the low income citizens located in the urban areas [5].

1Malaysia Shop sell about 20,000 every month. This means that shop still needs promotion to increase that sale. There are about 85 1malaysia shop at Malaysia now.

2.3 Existing System

Several studies could be carried out on a number of Different TYPES of applications. The selected application is invalid users in Malaysia, while others are not discussed here may not conform to the Malaysian Consumers. Reviews and more about the lack edge applications will be discussed below.

2.3.1 myKpdnkk

According to the figure 2.1 below shows the results of a screenshot of the application isolates. Among the features available in this application are name of user 1malaysia, seller of 1malaysia, MKM, Pricewatch, 1Malaysian Shop Store, 1Malaysian Menu.

Because of too many features in one app, it made user confuse about the functionality of this application. This application is focus more about KPDNKK then product 1malaysia. For features 1Malaysian Shop store it show the list of kedai rakyat 1 malaysia through state. And then it will give the info about the shop such as address, email, info about seller, how to contact seller and so on.



Figure 2.1 Main Page of Kpdnkk

2.3.2 myHealth

Figure 2.2 below shows the results of a screenshot of the application isolates. Among the features available in this application are Kemudahan Kesihatan, Soalan Lazim Kesihatan, Penilaian Risiko Kesihatan, Pengamal Perubatan, Produk Berdaftar, Mobile Denggi.

This application focus more to KKM. Where user can check name of medicine, health risk assessment and so on. It also provide list of 1malaysia clinic by state. Where it will show info each of clinic 1malaysia. In that info it provide the address, name of clinic, phone, email.

2.4 Conclusion of the study on Existing System

Still there are many other applications that have been developed by a developer who has been in the online market. Just two applications selected to be a discussion and improvement. According to plans, the application will be only take the important features to user.

| Features supports | Current mobile application | 1Mspot | myKPDNKK | myHealth |
|---------------------------------------|-----------------------------------|--------|----------|----------|
| Android OS | | X | X | x |
| Navigate to Kedai Rakyat 1 Malaysia | | X | X | |
| Navigate to Klinik 1 Malaysia | | X | | x |
| Navigate to All 1Malaysia Product | | X | | |
| Record payment made for future review | | X | | |

Table 2.2 Comparison between current 1Malaysia Store Application

2.4.1 1 Malaysia Spot

Based on the table, 1Malaysia Spot is focus more to 1Malaysia Product compare to myKpdnkk and myHealth. This application also can provide navigation function where user can search nearby location of 1Malaysia product store and go there through the map on mobile apps. Furthermore, user also can record all their payment made at the counter with scan their smartphone at the counter. After that the information will be saved at database and user can check it on their smartphone.

2.4.2 myKPDNKK

Based on the table, myKPDNKK apps provide function navigate to kedai rakyat 1malaysia. But it not provide function navigate to klinik 1malaysia. That means its not focus on 1malaysia store. Its focus on general about kpdnkk. But its very useful for consumer because its provide information about kpdnkk.

2.4.3 myHealth

Based on the table, myHelath apps provide function navigate Klinik 1malaysia. But it not provide function navigate to kedai 1malaysia. That means its also not focus on 1malaysia product store. But this system provide information about medicine, medical assistance and so on. So its suitable for people who needs to know more details about medicine and medical assistance.

2.5 Development Tools

Development tools show what the software use to develop this system. Eclipse have been used to build native android and help for design interface of the IMSpot and to create programming language on the apps meanwhile MySQL as the database language.

2.5.1 Eclipse

Eclipse is a community for individuals and organizations who wish to collaborate on commercially-friendly open source software. Its projects are focused on building an open development platform comprised of extensible frameworks, tools and runtimes for building, deploying and managing software across the lifecycle. The Eclipse Foundation is a not-for-profit, member supported corporation that hosts the Eclipse projects and helps cultivate both an open source community and an ecosystem of complementary products and services.

2.5.2 MySQL

There a lot of the databases that can be used in develop of this system. In this IMSpot (client –side application) use The MySQL as a database .MySQL is an open source Relational Database Management System. MySQL is a very flexible Database Management System and multi-threaded for the multi user Relational Database Management System, it also very high performance. MySQL become popular because this database is free and almost compatible with all the platforms. The MySQL run in multiple OS. It also was built to handle a large volume of the data can be stored in once time at the very fast speed. Verity of the application can use the MySQL as the database but mostly it use for database web application. [7]

2.5.3 Advantage of MySQL

- i. Performance and Reliability
 - MySQL is a very a high performance and reliable to many the database

- ii. Cross-platform support
 - MySQL can support multiple OS platform but for the major OS that use are Microsoft Window, Linux and UNIX.

- iii. Powerful and uncomplicated software.
 - MySQL are very easy database that can be used also very fast, It also capabilities corporate database system application.

- iv. Certified developer and trained
 - The MySQL are the most popular relational database management system in the world because it open source

CHAPTER 3

1MSPOT

3.1 Introduction

This chapter presents the proposed framework for 1MSpot system. The first section will discuss about the aim why use this system and how it work. Then tell about flow process of this system figure



Figure 3.1 complete context diagram of 1MSpot

The figure 3.1 shows the show the complete process of 1MSpot System in the general. Firstly to detect the nearby location of 1malaysian product store, gps from phone will request longitude and latitude to satellite for current location user and then satellite will send the longitude and latitude to smartphone. Smartphone will send their current location longitude latitude to database server and then it will calculate the distance current location user to 1malaysian produt store.After that it will display the 1Malaysian Product store order by nearest location.

Secondly to record their payment made at 1malaysia product store. There are two ways to record it. First one is when user want made payment at counter, show the smartphone to cashier. The cashier will scan barcode on the app and it will send to the database server. After that user can check the payments details at the apps.

3.2 1MSpot system

After getting all the information from the research, the 1MSpot are very suitable for malaysia citizen which, by using this application it can help user easy to find 1malaysia store. Besides that, it also can promote 1malaysia product. Firstly the user will download the application on the android market for the first user.

After that, the user only just choose on the menu which place he/she wants to go, if he/she not feeling well they can choose Klinik 1Malaysia. And then it will list all near place klinik 1malaysia. When user click on the list it will show the details about that klinik. After that user click on button map to navigate user from their current location to the klinik 1malaysia

This application also provide point collector to replace membership card. When they scan their barcode at the counter the point will be increase, and their payment details also will be recorded at the database.

By using this application also is free to download and not the trial version .So all the user can download for free. By this system hope it can help all the user to find 1malaysia store, and help user to control their expenses every month. I also hope this system will help to promote the 1malaysia product.

3.3 Logical Design

The system requirement for the 1MSpot System (client side) has been transform into the context diagram and data flow diagram (DFD) for easy to understanding about the system flow. The DFD picture show the movement of the external entities, process of the system and the data stores in the database.

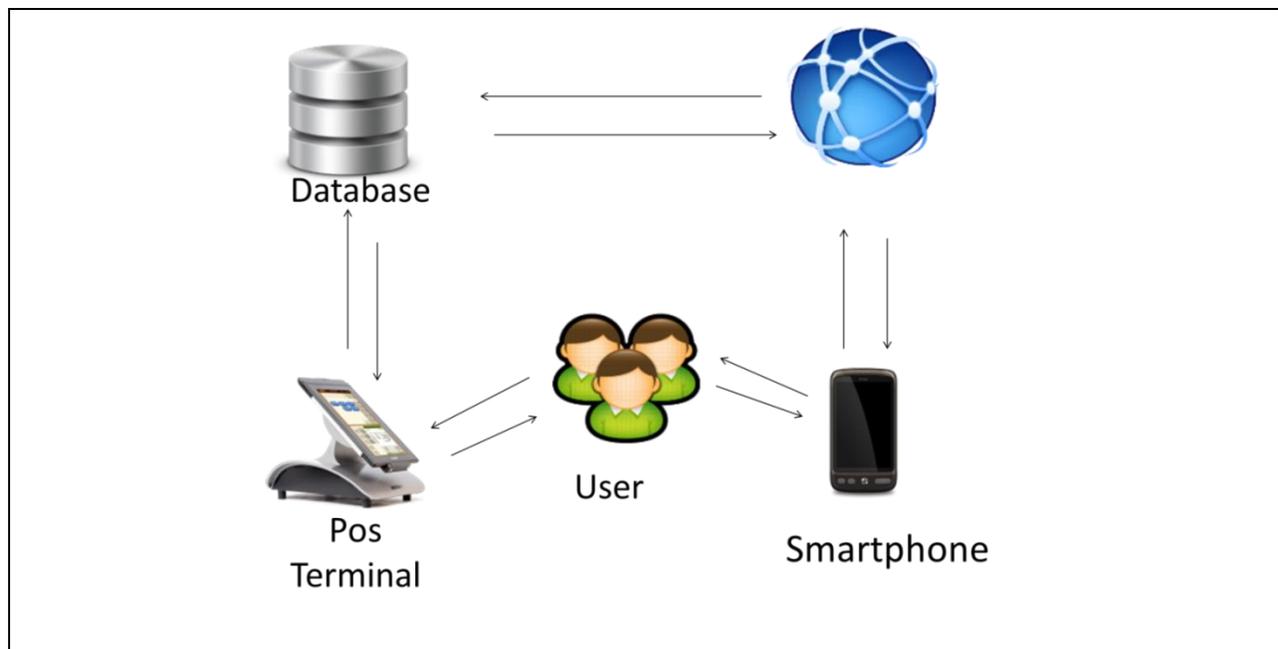


Figure 3.3.1 context diagram