SECONDHAND VEHICLE PORTAL

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ABSTRACT

Secondhand Vehicle Portal is the system that developed for Projek Sarjana Muda II (PSM II) based on the web portal. The system has been choosing as the final project for the users that interest with the second hand vehicle, which is quite popular today. This system will give the information about the second hand vehicle that available to sell and that would help both the users and seller. For the seller, they can use the system to promote the second hand vehicle that they want to sell. Users use this portal to buy their vehicle using the bidding process. There are no current systems that will give such of information like the Secondhand Vehicle Portal and users actually buy or get the information about the second hand vehicle through their friends. The system will be the solution for the problem where anyone can get the detail information about the second hand vehicle and they can access this information via Internet. The system uses the Rapid Application Development (RAD) methodology together with the UML approach to represent the system visually, to capture the system and users' requirements and system's functionalities. This approach is selected as it suits the system's requirements and the environment in which the system will be developed.

ABSTRAk

Sistem yang telah dibangunkan (Secondhand Vehicle Portal) untuk Projek Sarjana Muda II (PSM II) adalah sistem yang berkonsepkan portal. Sistem ini dipilih sebagai projek akhir berdasarkan penggunaan kenderaan terpakai yang semakin popular pada masa kini serta sebagai usaha untuk memudahkan orang ramai yang berminat dengan kenderaan terpakai untuk memilikinya. Sistem ini akan membantu dua golongan pengguna iaitu pembeli dan penjual. Dengan itu, sistem ini menawarkan informasi mengenai kenderaan terpakai yang hendak dijual . Selain itu juga ianya menyediakan ruang untuk mempromosikan kenderaan yang hendak dijual. Sistem ini adalah berlandaskan bidaan. Sistem yang diguna pakai oleh masyarakat sekarang ini adalah bercirikan hebahan melalui kawan dan ini menyebabkan penyebaran adalah terhad kepada kawasan sekeliling sahaja. Oleh itu, sistem yang dibangunkan ini akan mengatasi masalah dengan mempamerkan kenderaan butiran lengkap kenderaan dimana ianya boleh dilihat dimana-mana sahaja melalui internet. Sistem ini dibangunkan dengan menggunakan metodologi Rapid Application Development (RAD), yang digabungkan dengan penggunaaan kaedah Unified Modeling Language (UML) bagi memperlihatkan kualiti sistem, keperluan dan pembangunan sistem serta pengawalan perubahan dalam sesuatu sistem kerana ia lebih bersesuaian dengan konsep sistem ini serta persekitarannya.

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INRODUCTION

1.1 Project Background

The Secondhand Vehicle Portal is the system for sale and buying the second hand vehicles. These portal services involve buy and sale the secondhand vehicle. The target user is the owner of vehicle or public where to buy the secondhand vehicle. This portal will be used by them to help for their business. For the owner, this portal can be helping them to promote their vehicle. But for the public they can use this portal to find their requirement and desire vehicle.

Generally, when somebody sells their vehicle they will use a friend to give the information to others. But, by this portal the owner just to upload their vehicle information. The upload process is easily because it is a user friendly. It's means that the button was provided to guide the user how to use this system. The upload process is work when the owner should be entering the data in the system. After finish entering the data, the user should be save the record by using the button provided.

Another user is the buyers. Buyer is the users who want buy a secondhand vehicle. For that, they just find their desire vehicle. When the user search and select the desire vehicle, all of data for that vehicle will be displayed. After that, the user can also make bidding for that vehicle. And then the bid's highest also will be displayed.

1.2   Problem Statement

Actually most of people especially for low income inability to by a new vehicle. This is because either income problem or the difficult agreement by the car's shop. So, they are more interested to by the secondhand vehicle. But the problem is they are don't know how and where to get it. Furthermore they were feel that it is so difficult to find it and it's also will take a time. If they were found it, the requirement is not as required.

For the vehicle owner, they were also having the problem about that. The problem is they do not know how and were to promote their vehicle. This scenario means that about the promotion problem. Certain case the sale of vehicle will involve the third people. Besides that the information will be disseminate just around their area only.

After that, most of the owners have the problem with the third people. When their business involves the third people, the origin price will increase. So, this scenario will make the big problem for the owner to sale their vehicle. It is making their business slowly.

1.3   Objectives

In order to ensure that the project runs smoothly, objectives of the project must be stated. The main objective for this project is:
  i.   To help the vehicle's owner for sale their vehicle.
  ii.   To spread up the promotion for user with their vehicle business.
  iii.   To help the people to find the secondhand vehicles follow on their desire.
  iv.   To avoids the third-party in the business.

1.4   Scopes

The target user for this portal is the public and for those wants to sale their vehicle. The public is for the people who want to find the secondhand vehicle.

- Seller Account

  For the owner of vehicle, this portal provides a good way to run their business. This portal provides the space to advertising their vehicle. For that, the owner should be enter their vehicle information was provided. It's also need to upload the vehicle picture where to sale. It is to give the people information and to display that vehicle. After login, the system will show the user's profile. By these site the user can view their record like the vehicle was they bid, who's people was bid their vehicle and the vehicle record.

- Buyer

  The process work when the user or public surf the portal. To find their desire vehicle, they were should be select the categories of vehicle first like van, car, truck or motorcycle. After that, the system will display the result. When the user interested about that vehicle they should be login the portal to make bidding.

- Bidding

  The process work when the users select the categories of vehicle first like van, car, truck or motorcycle. When the user was selected, the system will find and view the result. If the user agrees with certain vehicle, they will bid that vehicle. Before that, the user should login first the portal. The user should bid the vehicle with highest than later (amount). The users also can contact the owner for detail information or negotiation. But all of the payment process not involve through this portal

- Forum

  If the users have a problem or need something opinion about vehicle, the forum will provided at this portal. From this portal, the user or admin can make some announcement to public who surf this portal. By this forum, the user can also change the idea about something.

1.5   Project Significance

The system that has been proposed may a benefit to both parties like seller and buyer. For the seller, the system can help them to promote their vehicle sale. By this system the user can upload the vehicle information into the system. So, it is will make the sale of vehicle easier. And than the information about the sale will be spread. After that, for the buyer it is most important to find the desire vehicle. By this system the buyer can search the desire vehicle through this portal. So, it is easy for user to get fast information about it. Besides that it's also can spend a user's time. With the forum module, the both of user can get the further information about the secondhand vehicles. They were also can share their information with others by join this forum.

1.6   Conclusions

Based on the analysis, the sale of secondhand vehicle have problem about promotion. Most of people still use the old technique where involve the third people. Besides that most people also difficult to receive the information for that sale. So, by this portal it is can solve the entire problem stated above.

The next chapter, Literature Review and Project Methodology will be discussing about what is the Literature Review, how to conduct it, where and how to get the material and how to analyze the fact finding.

CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1   Introduction

In this chapter, it will be focuses on literature review and project methodology. The literature review is focused on the research of the current system and the new system that will be developed. The purpose of a literature review is to convey the reader about the knowledge and also can established the ideas have been on a topic and what are the strengths and weaknesses.

This section is started by fact and finding. It will discuss and review about approach and related research, reference about this system. Besides that, it also states other approaches that will be used in this project after comparison with previous approaches. In project methodology section, selected approach or methodology will be described the activities that may do in every stage. All the requirements in this system will be explained in high level project requirements and followed with project schedule and milestones. This chapter will be continued with conclusion whereby it will conclude about this chapter and also gives an overview about the next chapter 3, Analysis Requirement.

2.2   Fact and Finding

2.2.1   Domain Background

The secondhand vehicle is most popular in Malaysia. This caused the level of life was increase. So, that why the secondhand vehicle to be the once of their option. The secondhand vehicle to be the normal trend for the people knows days. The passage below show that the proven of secondhand vehicle is most popular now.

Shafie berkata, selepas setahun beroperasi, kedai keretanya mendapat sambutan dan mampu menjual purata tujuh kereta sebulan menyebabkan dia sanggup menerima tawaran rakannya untuk melabur dalam perniagaannya. Menurutnya, menjual kereta terpakai berbeza dengan menjual kereta baru kerana dia terpaksa memastikan kereta yang dijual itu berada dalam keadaan baik dan mendapat kepuasan pelanggan. "Pembeli sentiasa teliti ketika mahu membeli kereta terpakai. Oleh itu, saya memastikan kereta yang hendak dijual itu dalam keadaan baik dan tidak rosak," katanya.

Reference:MuhamadSyafie,bharian2006

From the passage above it's means that the secondhand vehicle was most popular in Malaysia. For that he was agree to accept his friends to calcimine in his business. He also that, this business is important to make sure that the vehicle in a good condition. This is because to give a good service to customers.

Most of the secondhand vehicle sale still using the old style. The information about sale will spread by friends. This means that the owner will inform to their friends for vehicle to sale. After that their friends will inform to others people or friends. The others way are the advertisement. This way usually used by company. The advertisement will be patched at the wall, mast, public phone and anywhere. The advertising includes the company business, type of vehicle and company place. So, the people can go to that company to get the detail information about vehicle. Besides that, the others way are using to sale the secondhand vehicle is by show the vehicle side the main road. At that

vehicle, it does will give the contact person to get the detail information and negotiation about that vehicle.

The business process are naturally same as others business. When the customer interested with certain vehicle, they will met to the owner or sale manager (company). After that they will see the vehicle were to buy. After that, the customer will get the detail information from owner or sale manager. The current item point are like the owner's total before of vehicle. how about the engine, the body of vehicle, the years of vehicle and did it's still accident free.

Table 2.0 : The important items to buy the secondhand vehicle

	Type of element	Description
1.	Engine	To make sure that the engine still good.
2.	Body	To know how long the body of vehicle can be used.
3.	Years	To identify the age of vehicle.
4.	Accident free	To know that about the vehicle accident event.
5.	Accessories	To know the suitable accessories can be used.
6.	Model	To identify the origin model.
7.	Vehicle summons	To identify the traffic summons.

2.2.2 Case Study to review of Existing System

i.   *elelong.net website*
           Reference : *http://www.elelong.net*

'elelong.net' website is the Malaysia website. This website is running about all of the things categories. The businesses is buying and sell items through

out the world in all categories including antiques, art, book, business, autos, clothing, electronic, computer, home furnishing, entertainment and more.

The benefit of its business is like no commission fees, free registration and bidding is free. From this website, the people can access and make the business without commission charge.
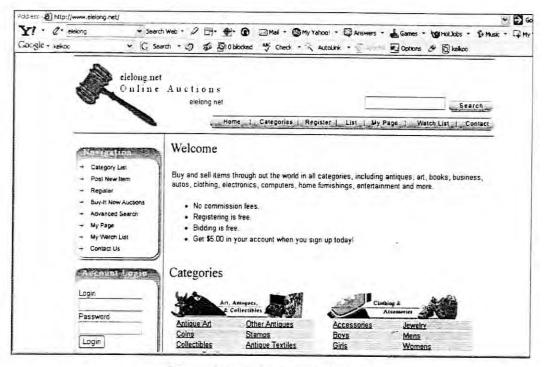

Figure 2.0: elelong.net interface

ii.   kelkoo website

    Reference : *http://www.kelkoo.co.uk*

'kelkoo' website is also like the elelong.net website. But the different is kelkoo website developed by foreign. The business is same as elelong.net where its have running business about buying and sell more items.

Figure 2.1: kelkoo interface

iii.   ebay website

Reference : *http://cgi.ebay.com*

'ebay' website is the one example of vehicle business. The 'ebay' business it is just specific for vehicle like car and truck. The business process is having three steps. First is finding. This step is the people should be finding the desired vehicle. After that the second step is buying. At this step, the people needed to enter the maximum amount they would to spend. And than the system will bidding the price to found the winner. For the last step is paying. When the winner was won the bidding, they need to pat the seller. All vehicles and parts purchases are protected by ebay.

Figure 2.2: ebay interface

Table 2.1: Table comparison for the case studies

	elelong.net	kelkoo	ebay
Category of items	Antique art Accessories Boys Stamps Collectibles And more	Computer software Vehicle & accessories Gift Travel And more	Entertainment Automotive Sport Antique Jewelry And more
Purchase way	Bidding	Compare	Bidding
Registration	Needed	No need	No need
Functionality	Advance search Post item	Normal search Advance search	Advance Search Comparison item Forum

2.2.3 Consumer to consumer (C2C)

Consumer to consumer (or C2C) electronic commerce involves the electronically-facilitated transactions between consumers through some third party. A common example is the online auction, in which a consumer posts an item for sale and other consumers bid to purchase it; the third party generally charges a flat fee or commission. Notably, most of the highly successful C2C examples using the Internet take advantage of some type of corporate intermediary and are thus not strictly "pure play" examples of C2C.

For the application, this system has to do like that. From the definition of C2C above, this system also have the online auction. The auction for this system means that when the buyer will bid their desire vehicle. The detail information of vehicle was post and uploads in this system. The information also will involve about the bid amount. The user can use this system directly via the internet and not need to be concerned with which company.

2.3   Project Methodology

The methodology used in this project is OOAD (Object-oriented System Analysis and Design) approach using UML (Unified Modeling Language) notation. UML is preferred as it provides a relatively simple diagram that supported by written information in the form of use case descriptions and become more widely accepted as the common language for system modeling (Bennet *et* al., 2002a). Beside that, UML enable iterative style of development rather than structured methodologies such as SSDAM. The main difficulty of structured methodologies in general is the most remain tied of waterfall life circle. This runs directly counter to the natural, iterative development for object oriented software and makes it very difficult for a structured analysis and design approach to lead to an object oriented implementation.

Reference : *(Bennet et al., 2002b).*

Software Development Life Cycle (SDLC) is the methodology for managing software project. SDLC unifies the activities of five software development stages. The five stages are:

I. Analysis Phase

For the analysis phase, all of data will be collected. The data was collected by interview and observation with the vehicle company and the individual who have done this business. The main things to be captured in this phase are understanding the key functionality and deciding process to follow and what tools to be used. After that all requirements will be compiled for producing use case model. Besides that, all of the related information collected via internet. The example of data resource is like 'elelong' website, 'ebay' website and 'kelkoo' website.

II. Planning Phase

This phase inclusive the activity of revising the milestone of PSM 1 through EFTMK portal, brainstorming about the task to be done and then