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JUDUL: **DIAGNOSIS OF COMPUTER IMPAIRMENT WITH WAP APPLICATION SUPPORT BY IT eDICTIONARY**

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^ Tesis dimaksudkan sebagai Laporan Projek Sarjana Muda (PSM)

DIAGNOSIS OF COMPUTER IMPAIRMENT WITH WAP APPLICATION SUPPORT BY IT eDICTIONARY

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This report is submitted in partial fulfillment of the requirement for the Bachelor of Information and Communication Technology (Software Engineering)

FACULTY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
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DECLARATION

I hereby declare that this project report entitled

DIAGNOSIS OF COMPUTER IMPAIRMENT WITH WAP APPLICATION SUPPORT BY eDICTIONARY

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

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DEDICATION

To my beloved family, friends, my supervisor Mrs Marliza bt Ramly and those people who support me ...

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ABSTRACT

The project is known as Diagnosis of Computer Impairment with WAP Application support by IT eDictionary. This project is developed on the purpose to overcome the recent scenario happened which is sometimes it is hard to find a platform to solve the personal computer (PC) problem and in the same time they can search any term in IT word that they can not understand. There are four modules are identified to build which are Registration Module, Diagnosis Module, eDictionary Module and Transaction Module. For each of the module listed, it has its own functions which are for registration; the functions provide are the sign-in and sign-up process. The main module which is the diagnosis module produces the functions to identify the computer impairment. Function to search for particular word is in the eDictionary module enabling user to search the meaning of the intent word. All of the three module describe above are belonging exclusively to mobile phone user who are the main actor in this project. Transaction module will be the last module that are specialize to admin which will be able to make editing, searching, deleting and viewing process besides add new information into the wapsite system.

ABSTRAK

Projek yang akan dibangunkan dikenali sebagai *"Diagnosis of Computer Impairment with WAP Application support by IT eDictionary"*. Projek ini dibina bertujuan untuk mengatasi pelbagai senario yang berlaku pada masa kini, di antaranya kesukaran untuk mencari platform yang sesuai bagi pengguna untuk mengenalpasti punca kerosakan komputer peribadi dan juga cadangan penyelesaian untuk mengatasinya. Pada masa yang sama juga, mereka boleh mencari maksud bagi sesetengan perkataan dalam konteks IT yang sukar difahami khususnya bagi pengguna yang tidak terlibat dalam bidang IT. Terdapat empat modul yang perlu dibina bagi memastikan objektif bagi projek ini berjaya dicapai iaitu *Registration Module, Diagnosis Module, eDictionary Module* dan akhir sekali *Transaction Module.* Bagi *Registration Module,* fungsi yang terlibat ialah proses *Sign-in* dan *Sign-up.* Manakala bagi modul utama iaitu *Diagnosis Module,* ia merencanakan fungsi penting iaitu pengenalpastian kerosakan komputer. Modul ketiga iaitu *eDictionary Module* pula merangkumi fungsi carian yang mana membolehkan pengguna mencari maksud bagi perkataan-perkataan dalam konteks IT. Ketiga-tiga modul yang diterangkan diatas adalah dikhususkan bagi aktor utama dalam projek ini iaitu pengguna telefon. Modul yang terakhir iaitu *Transaction Module* merujuk kepada administrator di mana mereka boleh melakukan proses penambahan, pengubahsuaian dan penghapusan maklumat dalam sistem tapak *wap* ini.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ABBREVIATIONS

1.	CPU	Control Processing Unit
2.	DCI	Diagnosis of Computer Impairment
3.	ERD	Entity Relationship Diagram
4.	FK	Foreign Key
5.	HTTP	Hyper Text Transfer Protocol
6.	ID	Identification
7.	IT	Information Technology
8.	OMA	Open Mobile Alliance
9.	OOAD	Object Oriented Analysis and Design
10.	PC	Personal Computer
11.	PHP	Personal Home Page
12.	PK	Primary Key
13.	PSM	Project Sarjana Muda.
14.	RUP	Rational Unified Process
15.	UML	Unified Modeling Language
16.	WAP	Wireless Application Protocol
17.	WML	Wireless Markup Language

LIST OF APPENDICES

CHAPTER I

INTRODUCTION

1.1 PROJECT BACKGROUND

Nowadays, computer being one of the most important electronic device that frequently used besides the internet usefulness in searching any information relate. Recently, internet also can be browse through handset after the Wireless Application Protocol (WAP) application is being introduced. WAP perform a secure specification that allows users to access information instantly via handheld wireless devices such as mobile phone.

Project will be developed known as Diagnosis of Computer Impairment with WAP Application support by IT eDictionary is focus on how to identify and diagnosis for the computer impairment besides provides the other service that is IT Dictionary. This project is not done for the particular organization, it is the generic wapsites by implement the WAP application.

This project provides four modules which are Registration Module, Diagnosis Module, IT eDictionary Module and Transaction Module. The detail of each module will be discussed later on the scope section.

1.2 PROBLEM STATEMENT(S)

Current problems of the usual that occurs in the present:

a. **No person can always give their hand in helping**

Sometimes, there is no person we can refer to in repairing the computer problem and they are not always be around to give their hand in helping to solve the computer problem. So, it is hard to figure out the cause of computer impairment and the solution to overcome the problem arises.

b. **Difficult to find for problem solving**

Some of the computer problems are difficult to solve and the impairment are unexpected. Frequently, the cause and solution for the particular impairment can not be found in books or any other regular resources, we need to ask for somebody especially computer user that are ever faced the same problem or have the experience to overcome the problem.

c. **Hard to bring the heavy thing in hand**

Most of the user is hard to bring along the heavy dictionary by hand and to search for the particular word, they have to view by one page to one page. It will take time to search the meaning just for a word. Sometimes, to find for a just one word, especially in term of IT, it needs more than a dictionary. The IT terms, in many instances are difficult to understand especially for those who are not involved in this field.

d. **PC problem in connect to internet**

Sometimes, there is always arising the problem of the personal computer (PC) due to internet connection. With the installment of cables, it become harder, even they use wireless on their PC at home or office. Once the PC has the problem, it probably can effect the internet connection in seldom. So,

there is no such other way to detect the problem of the computer impairment if there are no people around to ask, no internet connection to find the resources and no books to refer.

1.2 OBJECTIVES

In attempt to develop this project, the main focus is to achieve the objectives listed in order to build a good project.

a. To provide the efficiency and the alternative way in searching the main cause of computer impairment by using the WAP application which user can browse the web through their handset to find for the best solution of computer impairment.

b. To manage all the cause of computer impairment and their suggestion of solution in one system that ease for user to diagnosis the computer impairment by their own without has to ask the others.

c. To provide a platform that enable user to search for the meaning of IT term which basically not all the people common with that term besides to ease user which they can browse through internet via their mobile phone by using the WAP application.

1.3 SCOPES

There are four main scopes in this project which are:

a. Registration Module

- **Sign Up**

  This function is required only for the first time user of the wapsite of diagnosis of computer impairment. They need to register first as a user in order to let them directly access to the wapsite. They will be asking to simply fill in the form and the important thing is to enter their username and password for the sign in purpose.

- **Sign In**

  For those who are already has the account, they are just need to enter their username and password in the sign in site and they can promptly access the wapsite.

b. Diagnosis Module

- **Identify Computer Impairment**

  For the diagnosis of computer impairment, user will be asking to answer a few of questions regarding to the problem faced in order to find the root of the problem besides its suggestion of solution. Before that, system will list the several categories of computer that are related to the impairment such as CPU, Monitor, Keyboard problem and so on. There will be a few stages of questions has to answer regarding to the problem and computer impairment faced before the main cause can be identify and suggest the solution for it.

c. IT eDictionary Module

- **Search Particular Word**

  User enables to search for the particular word in IT term in order to find for the meaning. There will be a text field provided that let user type for the particular word.

d. Transaction Module

- **Add Record**

  Admin enables to add the new information both of the modules which are Diagnosis Module and eDictionary Module in the system.

- **Update Record**

  The record of the information about the two of main modules as mention above also has to accomplish the update process in order to improve its functionality.

- **Delete Record**

  Sometimes, admin also require deleting the unnecessary information from the system. To avoid from eliminating any important data, the ensure page is provided which asking user either intent to continue deleting record or not.

- **Move Record**

  This function is specializing for the Diagnose Computer Impairment module which admin can move the record into the other category or subcategory (questions) without has to delete and insert again the same record.

- **Search and View Record**

  Admin also be able to search the particular record to do another main transaction. Besides searching the particular record, admin also enable to view and list all the record based on the alphabet (specialize for the IT eDictionary module).

1.4 PROJECT SIGNIFICANCE

a. The developing system is a decision support system that is develops to help user on their computer impairment problem. This system will give an appropriate decision base on questions answered. Result is displayed after considering the problem faced from user.

b. This system offers detail information about the cause of computer problem and its suggestion solution that can be used to solve the problem efficiently.

c. By implementing the WAP Application technology to mobile device, people are allowed to access the internet wherever they want and it builds to enable easy, fast delivery of relevant information and services to mobile users.

d. User also can use this system to search for the word in term of IT to find its meaning instead of has to find it in the computer dictionary. This definitely can avoid user from wasting their time and effort.

1.5 CONCLUSION

In this chapter, a briefing is given on project background, problem statement, objectives, scopes and project significance. Chapter I is a description of the project that want to be developed. Industry players from content developers to operators can explore the vast opportunity that WAP presents. As a fixed-line technology, the Internet has proved highly successful in reaching the homes of millions worldwide. By implementing the WAP application into this web based system, it hoped that it will bring the efficiency and easier for user to use it.