

BORANG PENGESAHAN STATUS TESIS*

JUDUL: SISTEM PEMBASMIAN KEMISKINAN BANDAR (e-PKB)

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SISTEM PEMBASMIAN KEMISKINAN BANDAR

ABD KARIM BIN ABD RAZAK


**This Report is submitted in partial fulfillment the requirement for the
Bachelor of Computer Science (Software Development)**


**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA**

DECLARATION

I hereby declare that this project report entitle
SISTEM PEMBASMIAN KEMISKINAN BANDAR

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

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DEDICATION

My dedication is goes to my beloved parents for the support and gives the greatest inspiration.

My dedication also to my best friend for the help, encourage and support me.

Lastly, special dedicate to my PSM supervisor for the help, gives inspiration and guide me to finish this PSM and not forget to lecture for the help me.

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ABSTRACT

Information technology advancement have change the manual work pattern to work computerized. Now, have many systems used the internet as platform to manage the work. On of the system that has been use the platform is Sistem Pembasmian Kemiskinan Bandar (e-PKB). The e-PKB is a system that provides service to public people to apply the Program Pembasmian Kemiskinan Bandar (PPKB). The program is under Ministry of Housing and Local Government that helps people with low income and have many children. The local authority that is Majlis Bandaraya Melaka Bersejarah (MBMB) responsables to manage the program. The system provides several functions or modules to facilitate the user of the system to collect and manage the information of the program. The module included in the system are module for manage user, register applicant, applicant searching, report, graph information and system configuration. Beside that, the system can be access by the public such as government department that manage the poverty information and district chief. The system very important to make sure that the program achieves its objectives.

ABSTRAK

Perkembangan teknologi maklumat telah mengubah corak kerja manual kepada sistem kerja berkomputer. Pada masa kini, banyak sistem yang menggunakan teknologi internet sebagai platform untuk memudahkan urusan kerja. Salah satu sistem tersebut adalah Sistem Pembasmian Kemiskinan Bandar (e-PKB). e-PKB adalah satu sistem yang memberi perkhidmatan kepada orang awam untuk membuat permohonan Program Pembasmian Kemiskinan Bandar (PPKB). Program tersebut adalah dibawah Kementerian Perumahan dan Kerajaan Tempatan (KPKT) yang akan memberi bantuan kepada orang awam yang berpendapatan rendah dan mempunyai ramai anak. Pihak berkuasa tempatan iaitu Majlis Bandaraya Melaka Bersejarah (MBMB) bertanggungjawab untuk mengurus program tersebut. Sistem ini, menyediakan beberapa fungsi atau modul untuk memudahkan pengguna sistem mengumpul serta mengurus maklumat program tersebut. Antara modul tersebut adalah modul mengurus pengguna, pendaftaran pemohon, carian pemohon, laporan, graf maklumat dan juga konfigurasi sistem. Sementara itu, sistem ini boleh di capai oleh pengguna luar seperti jabatan kerajaan yang menguruskan maklumat kemiskinan dan juga ketua kawasan. Sistem ini sangat penting dalam memastikan program yang diwujudkan mencapai objektifnya.

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CHAPTER I

INTRODUCTION

1.1 Project Background

Program Pembasmian Kemiskinan Bandar (PPKB) is a program established to help people whose income under poverty line. The program is under Ministry of Housing and Local Government (KPKT). The program manage by all local authority in Malaysia. Majlis Bandaraya Melaka Bersejarah (MBMB) is one of the local authorities that responsible to collect and manage the program. MBMB will cooperate with other government department such Majlis Agama Islam Melaka (MAIM) and Jabatan Kebajikan Masyarakat (JKM) to collect information about the people who apply to gain help through the program. Currently, all applicant information PPKB is managed by Jabatan Perancang Bandar (JPB) in MBMB. After that, the information will be sent to KPKT for processing approval. The types of help that can apply by applicant are *Bantuan Sewa, Bantuan Sekolah, Bantuan Jagaan, Bantuan Pengangkutan, Bantuan Dialisis, Bantuan Kemahiran* and *Bantuan Ihsan*.

To facilitate the staff in JPB to manage the PPKB, a system that called e-Sistem Program Pembasmian Kemiskinan Bandar (e-SPPKB) has been developed by a group of student Industrial training from Universiti Teknikal Malaysia Melaka (UTeM). The system is to store and manage all applicant information that wants to join the program. The e-SPPKB system also enables user to modify and search applicant information.

Beside that, the system can generate graph and produce reports. However the system stills have some weaknesses and need to be enhanced. So, the system is easier to manage and maintain. In addition, the system needs to be upgraded because to make sure the system more secured, efficient and flexible.

Currently, the system has been setup at JPB and only can be access on local area network. In the future, the system will be enhanced to allow the other government department to access the system via internet. e-SPPKB will change to Sistem Pembasmian Kemiskinan Bandar (e-PKB) because of evolution and upgrading implemented.

1.2 Problem Statement

In the problem statement part will explain detail about the problem or weakness of the current system.

The problem of current system is low security. This is because, most the functions in the current system only apply for user that login as admin. The common users also share the same function as admin. Beside that, the current system is unsecurity because the user password not encrypted by system. So, the system or database is easy to be hack by hackers and the data maybe will modify or delete from the system. The current system also unable to detect who and when the specific data that has been updated from database. Therefore, to develop a good system the element of security should be including in the system to make sure the system more secure.

The other problem of current system is not flexible. This is because the system cannot determine the types of MBMB approval. To determine the MBMB approval, user need to select type of MBMB approval from menu that provides in current system. The types of MBMB Approval are *Sokong*, *Sokong Tanpa Bantuan* and *Tidak Sokong*. Beside that, the system is not intelligent because the system cannot search and detect the family members in specific applicant information during make registration or searching. This will cause the duplicate data and hard to find the family members in specific applicant information. Lastly, the system is not flexible because the user needs to enter the same data in the other interface. For example, name of school that has been enter in *Bantuan Sekolah* menu needs to enter again in *Bantuan Pengangkutan* menu.

Currently, the system only can be access via intranet and use at JPB in MBMB. The process to collect and key in data into system is slow. This is because the PPKB has to gather from the other resources such as Jabatan Pembela (PEMBELA), JKM and MAIM. All information that sourced from several resources will be managing by JPB in MBMB. This caused delays in processing the application.

The report function in current system can only produce report in a format that has been determine by KPKT. The report format is use to sent the information to KPKT. But, in the same time, the staff needs to produce the report in other format.

1.3 Objective

The objective of upgrade the current system become e-PKB systems are:

- **To make the system more secure**

The system can be accessed by the public. So, access level will be added in e-PKB to make sure that not all users can access the system with the same function. The access level will be set in four levels which is level 1 for admin, level 2 for staff in JPB, level 3 for government department and leader of an area and level 4 for user who can only read data. Each level has different function. Admin is responsible to maintain the system and also to make registration for users who want to use the system. Beside that, admin can access all functions in the system. Meanwhile, the access level for staff in JPB is to enable the users to manage, make analysis and produce report for KPKT. Access level for government department and leaders of an area is to help JPB to register the applicant in their administrative area. Lastly, the access level 4 is for applicants who want to know the approval status of their application.

The important elements that need to be included in system to make sure the system more secure are encrypting the user password. The purposes to protect unauthorized people from enter the system. That mean, the password that has been register by user will be encrypted by system before the password is store in database. Beside that, the system will provides a function to detect who and when the last time the data that been updated by the user.

- **To collect the PPKB information faster and efficiently.**

That e-PKB will be published on the internet to distribute the task to key in and collect data from different area in district Melaka Tengah. The task will be done by JPB, MAIM, JKM and leaders of an area. So, the process to collect the applicant information will be faster and efficient.

- **To search applicant information in various form.**

Searching menu is very important to find and display the detail applicant information. The searching menu needs to be available in various forms to help user to find the whole family information. This is very important to avoid the family members register for many times.

- **To determine the MBMB approval.**

The good system is can solve the problem that make manually before. The system will provide a function to determine the type of approval. During registration of applicant information, system will determines the type benefiths according to the household income and also the number of child in a family.

- **To avoid user to key in information repeatedly.**

Some of the data need to repeatedly enter into system for different of interface. The system will provide a function to display or view the data that has been kept in the database to the other interface. So, this method will reduce time to key in data or information of PPKB.

- **Produce report in various forms.**

The system will provide functions to enable user to produce report in various form. The types of reports are to display the list of applicant information in various formats such as the basic applicant information, type of helps and so on and also the report for personal information.

- **Configure the menu of system.**

The configuration menu is to make the system more flexible. The configuration menu is to configure the status menu of *Miskin* and *Miskin Tegar*, according to household income, configures the area in district of Melaka Tengah. Beside that, the configuration menu is to generate password for a user that want use the system and determine the amount of money that will give to the applicant.

1.4 Scope

The scope of e-PKB system is only to manage the Program Pembasmian Kemiskinan Bandar (PPKB) that provide by KPKT. The other users that involved in e-PKB system are target user and specific platform that will describes as below.

1.4.1 Target user

Target user of the system is for poor people whose income less than RM 644.00 and has many children in their family. This assistance is to lessen their burden them to accommodate daily expenditure and schooled child. In the future, the e-PKB system will be published on the internet. So, the system can be access by JPB in MBMB and the other government department such as MAIM and JKM. The government department is responsible to collect the information of poor people that applied to get help from KPKT and also to help JPB to make registration for them.

Beside that, the system also will be accessed by the leader of an area such as Ahli Dewan Undangan Negeri (ADUN), *Ketua Kampung and Penghulu*.

1.4.2 Specific Platform

The Operating system that will be used to run the system is Windows or Linux.

- **The specific module that want to upgraded from e-SPPKB system**

The modules that will be upgraded from e-SPPKB system are login, applicant registration, searching menu and report.

The module registration module has added function to enable system to determine the type of approval and to detect who and when the specific applicant information has been updated. The function will avoid the user to key in data repeatedly the same data. This function will display the information that has been entering to the other interface. The new function will be added in this function to enable user to upload and the save the applicant picture.

The searching module will added the function to enable user to search the detail of applicant information accurately.

The modules will added new function to enable users to prepare and produce report in various format to easier them to manage and arrange the list of report. Beside that, the function will be added in this module to enable user to produce report for specific applicant and also will print the label for applicant file.

The new module that will be added in this system is the configuration menu. This menu is to configure the system to make the system more flexible. The functions that contains in this module are the function to determine the status of *miskin* and *miskin tegar*, determine the DUN and *parlimen* and the function to back up the database.

1.5 Project Significance

The importances of e-PKB system are:

- **To help to manage the program of PPKB.**

The e-PKB system is to facilitate the JPB in MBMB to manage and arrange the applicant information of PPKB program. Beside that, the system facilitates the user to produce the report that will be sent to KPKT for approval. After application information has been approval, JPB is responsible to manage the information produces report from time to time to KPKT about the status of applicant. The system also enable user to analysis the applicant information. So, the system that will be upgraded to make sure the user can manage data efficiently.

- **To reduce the time to collect the PPKB information.**

The system will reduce the time to collect the applicant information. This is can be achieved as applicant information also collected by other government departments has responsible to do so.

- **To provide the opportunity to poor people to receive assitance faster.**

Using the e-PKB system is better than use the paper to make registration. The process to register the applicant information via the e-PKB system will provides the opportunity to poor people to gain help from KPKT faster.

- **To provide the opportunity to the leaders of an area to help the poor people in their area.**

This system is enables user or leaders of an area to help people to make online registration. Beside that, the leaders can analysis the number of poor people in their area. So, the leaders can help and improve their life.

1.6 Expected Output

Hopefully, all function in e-PKB system will work successfully to collect, register and manage the program of PPKB. The expected output from the system is the login menu will provides function to enables user to access the system in different of access levels. Beside that, the login will enable administrator to manage and modify the user account and decrypt the password that has been encrypted during user registration. The login menu is to protect the system from unauthorized people. So, the security of system will more secure.

The registration menu is expected to provide function to enable user to make registration the applicant information easier and faster. The registration menu is very important because all function in the system depend on the registration menu. The information that gain form registration menu will be used to produce report and generate graph.

Beside that, the report is expected will produce the formats that fulfill the user requirement. The report is not only for KPKT but for the staff in JPB as reference to facilitate them to organise the applicant information file. The report also is expected to produce the summary report of specific applicant information such as basic personal information, summaries the type of assistance approved, and the picture of applicant. This report will be printed out as referent for applicant to facilitate them to get the grant money.

Lastly, the system is expected to be publish on the internet and can be access via internet. Hope the system can be run on different of platform such as Windows or Linux platform. Hopefully the system can be implemented to the other local authority in all over Malaysia. This is very important to make sure all local authority in Malaysia can manage the program of PPKB effectively and efficiently.

1.7 Conclusion

The e-PKB system that enhanced from e-SPPKB system will eliminate the weakness exist on current system through new features or functions. The system will be interesting, secure and flexible.

Study the weakness of the current system is to seek the best idea to solve the problem or to improve the function of current system to make sure. So, the system is easier to use by the users. This is a good system are as it contains the important element such as access security.

The system that will be publishes on the internet to enable users to access the system in various platform such as Windows and Linux. So, the system that gain from the different resource will save in MBMB and JPB is responsible to manage and produce report for sent to KPKT to approval. The applicant information that has been approved will use to give money to them. The system is to reduce time to process from registration until the applicant gain their help from KPKT.

Lastly, the next Chapter II that will explains about the Literature Review and Project Methodology.

CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

The Literature review is to review the specific information that related with the e-PKB system and project methodology defines the processes or stages that involve in software development life cycle (SDLC). Beside that, this chapter will define the requirements and project milestone.

The literature review study existing and using the other approach to search the specific information. The methodology method is V-Model methodology.

2.2 Facts and Findings

The facts and findings is one of the activities in software development life cycle. The activities that involved for facts and findings are defining the domain for system, study the existing system and using the other approach to gather the relevant information. All the information gathered may be used to develop the e-PKB system.

2.2.1 Domain

The e-PKB system will provide services to gain the applicant information from several resources such from walk-in, Bahagian Pembela Kemiskinan Negeri Melaka (PEMBELA), MAIM and so on. The applicant information will be analyzed and managed by JPB in MBMB. Then, the JPB will produce report based on collection of applicant information and provide the result to the applicant.

2.2.2 Existing System

For this particular system development, the existing system will be studied. Investigation of existing system is to gain the information about the advantages and disadvantages of a system. Investigation also is able to classify the feature, platform and functions that include in the existing system. All the information observed from the study will implement in e-PKB system. The existing that has been study are e-Sistem Program Pembasmian Kemiskinan Bandar (e-SPKB), Sistem Profil Rakyat Miskin Terangganu (SPRM) and Sistem Maklumat Kemiskinan (SMK).

- **Cast study1 : e-Program Pembasmian Kemiskinan Bandar (e-SPPKB)**

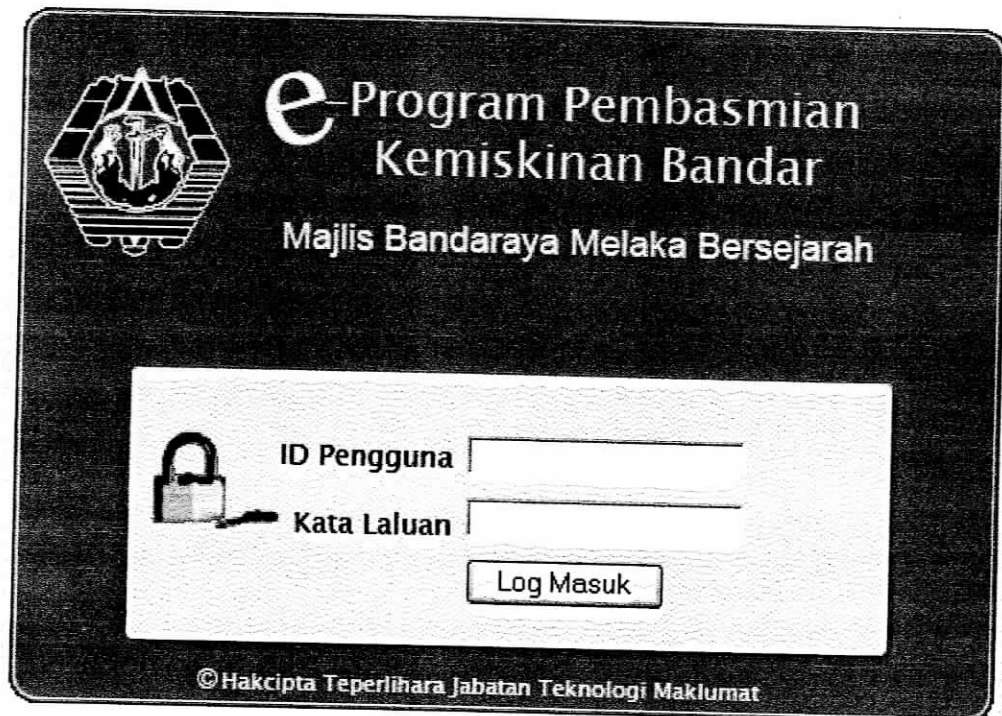


Figure 2. 1 e-Sistem Program Pembasmian Kemiskinan Bandar

The e-SPPKB is a system that uses to manage the applicant information of Program Pembasmian Kemiskinan Bandar (PPKB) that developed by Ministry of Housing and Local Government (KPKT).The program is managed by Jabatan