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JUDUL: FOREIGN WORKER APPLICATION SYSTEM (FWAS) AT IPOH
IMMIGRATION DEPARTMENT

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Foreign worker application system at Ipoh Immigration
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**FOREIGN WORKER APPLICATION SYSTEM AT IPOH IMMIGRATION
DEPARTMENT**

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

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
KOLEJ UNIVERSITI TEKNIKAL KEBANGSAAN MALAYSIA
2006**

ADMISSION

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DEPARTMENT**

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citations.

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DEDICATION

To my beloved siblings especially my brother, Ibrahim bin Sidek. I thank him for performing this difficult task, and the journey does not end here.

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ABSTRACT

Foreign Worker Application System is a system that can facilitate employers to make an on-line application of foreign worker or maids passes through the internet. Foreign Worker Application System can facilitate staff at Ipoh Immigration Department to manage the application of foreign worker or maids passes more efficiency. The main objective in develop this system is to enhance the manual system to web based system. The system has been analyzed and designed using Structure System Analysis and Design (SSADM) methodology with Waterfall Model. Scope analysis is focus on the current system which Foreign Worker Application System is developed to transform this current system into electronic data management. With the use of Foreign Worker Application System, user can perform process such as registration, application, result of application, payment and download the related form. System testing is done to make sure system is free from any error and fulfill user requirement. As a conclusion, to develop the system, developers need to define the problem, analysis the problem and design the system that will be develop. The developers also needed to implement, testing and maintenance the systems that have been developed.

ABSTRAK

Foreign Worker Application System (FWAS) merupakan sebuah sistem yang dapat memudahkan majikan untuk membuat permohonan pas pekerja asing atau pembantu rumah asing secara online melalui internet. Dengan adanya FWAS, ia akan memudahkan lagi pihak imigresen Ipoh untuk menguruskan permohonan pas pekerja asing atau pembantu rumah asing dengan lebih efisien. Objektif utama dalam membangunkan sistem ini ialah untuk menggantikan sistem manual kepada sistem yang berasaskan laman web. Sistem ini di analisis dan di rekabentuk dengan menggunakan metodologi Struktur Analisis dan Rekabentuk Sistem (SSADM) dengan Model Air Terjun (*waterfall model*). Skop kajian tertumpu kepada proses sistem semasa dan pengaplikasian sistem kepada konsep pengkomputeran. Dengan penggunaan sistem FWAS, pengguna dapat melaksanakan proses-proses seperti pendaftaran, permohonan, keputusan permohonan, pembayaran dan muat turun borang-borang yang berkaitan. Pengujian ke atas sistem turut dilakukan bagi memastikan sistem bebas dari sebarang ralat dan mengikut keperluan pengguna. Secara kesimpulannya, dalam membangunkan sesebuah sistem, pembangun sistem perlu mengenalpasti masalah, membuat analisis dan merekabentuk sistem yang ingin dibangunkan. Pembangun sistem juga perlu membuat implementasi, ujian dan penyelenggaraan ke atas sistem yang dibangunkan.

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LIST OF ABBREVIATIONS

FWAS	- Foreign Worker Application System
IC	- Identity Card
GUI	- Graphic User Interface
SSADM	- Structure System Analysis and Design Method
HRSDC	- Human Resources and Skills Development Canada
CCTA	- Central Computing and Telecommunications Agency
DFD	- Data Flow Diagram
DBMS	- Database Management System
IIS	- Internet Information Services
HTML	- Hyper Text Markup Language
CGI	- Common Gateway Interface
PHP	- PHP: Hypertext Preprocessor (HTML-embedded scripting language)
CSS	- Cascading Style Sheets
HTTP	- Hypertext Transfer Protocol
RDMS	- Relational Database Management System
WBS	- Work Breakdown Structure
RAM	- Random Access Memory
NIC	- Network Interface Card
ERD	- Entity Relationship Diagram

CHAPTER I

INTRODUCTION

1.1 PROJECT BACKGROUND

Nowadays, the management regarding to the recruitment of foreign workers is not the simple work. More procedure needs to follow for foreign workers or maids application pass. The widespread usage of computer can support to solve the problem that related with the application of foreign workers or maids pass. Basically, the department that arranges this application is Immigration Department.

The Foreign Worker Application System (FWAS) is to facilitate the public i.e. the employer in its dealings with the Ipoh Immigration department for application of foreign workers or maids pass. This system is website based whereby all application can be made based on the on-line concepts.

All the while, the staff at Ipoh Immigration Department were using the manual system for processing application for the foreign workers and maids pass. Employer has to line up for purchasing the application forms and take long hours to complete the forms. This is not systematic and requires long hours to make an application. The manual system requires large amount of paper, large rooms for storing information files of employers.

With the availability of the Foreign Worker Application System, employer can make the application anywhere via the internet. This is due to the fact that the system provides application on-line. It can save time, costs effective and simplifies the sending of applications. When employers send their application, staff will check and process the application.

The staff can make searches via employers ic number to browse the application. Via the searches, the staff can examine whether the application is complete or not. Staff can browse the name list of employer that has send their application and check their status. The system shall be more systematic and user friendly compared to the manual system used by the staff at Ipoh immigration department.

The main purpose of the project is to develop the system based on the web based application system which is the application of foreign workers or maids pass can be done through the internet from anywhere. It also to help the staff at Ipoh immigration department to process all the application speedily and systematically. The purpose of this system is also to reduce the large storage usage in kept all the files are related with foreign worker and employer information. Besides, this system is developed to enhance the manual system.

1.2 PROBLEM STATEMENT

In conjunction with the globalization, many business organizations will have to depend on information technology to get its daily routine and business function done efficiently. From the observing and the interview at Ipoh Immigration Department, I found some problem that caused the manual system of application for foreign workers or maid is not systematic. The problems are as follows:

- **The process is done manually**

The main problems are the foreign workers or maid's application pass process is done manually. The application process is done sequentially where the employer must wait in a queue to get the foreign workers or maid application pass form. Then they must fill up the form and send to the staff at counter. After that they must wait for staff check the form. Then, the employer goes back and attends again at Ipoh Immigration department one month from the date of submission the application. To solve this problem, I decide to develop one system based on the web based which is the employer can make an on-line application for foreign workers or maids pass through the internet from anywhere.

- **Redundancy of Data Entry**

The same information may enter by the different staff at Ipoh Immigration Department. For example, when employer comes to the department and make a registration, staff will record the information and give the id number for employer. The redundancy id number was occurring in manual system. But with this system, the id number is change with the IC number. It can reduce the redundancy of data entry.

- **Need the big size of storage**

Staff at Ipoh Immigration Department needs the big size of storage to save the information of employer, foreign workers, application and others that related with the foreign worker. The space at Ipoh Immigration department is not enough to store all the documents of application. To solve this problem, I have to develop the system that can save all the information without big space. With this system, all the information will save in the database.

- **No experience to handle the computer**

Not all staff at Ipoh Immigration Department and public has knowledge to handle the system or computer. It will give a high risk and problem to other person. To solve this problem, this system is developed with the GUI (Graphic User Interface) and button to make the easy way for the novice user to classify what is the system need.

- **Waste time consuming and money**

Register employer need to go to the Ipoh Immigration department to wait in a queue to buy the foreign workers or maids application pass form. Because of that, they can waste their time consuming and money. To solve this problem, I have to develop one system that can try to save the employer time consuming and money.

1.3 OBJECTIVES

Every system that will be building has its own objective. The Foreign Worker Application System is built to overcome the problems that occur in the current system. There are a few objectives should be access to make sure the system operates properly, so user will satisfy and fulfill user requirements. The objectives of this project are:

- **To produce a web based system**

This system is developed based on the web based for staff at Ipoh Immigration Department and public as registered employers used in makes an online application of foreign workers or maids pass.

- **To produce an online application**

The purpose of this project was to design and produce an on-line application system by applying the latest technology and equipments.

This system can facilitate registered employers to apply foreign workers or maids pass. They can make an application through the internet from anywhere.

- **To facilitate staff and reduce the large storage usage**

This system is also to facilitate immigration staff manages the application of foreign workers or maids pass with more quickly and systematic. Besides, this system can reduce the large storage usage in kept all the files are related with the foreign workers and employers information.

- **To save money and time consuming**

This system will help registered employers save their time consuming and money. With this system, all the application can be made an on-line concept.

- **To enhance manual system**

This system also developed to enhance the manual system that staff at Ipoh Immigration department used for application of foreign workers or maids pass.

1.4 SCOPE

The Foreign Worker Application System is developed to enhance the current system at Ipoh Immigration Department with more application. These system is developed only for the utilisation of the registered employer and staff at foreign worker division of Ipoh Immigration Department. The scope of this project includes:

a) An On-line application

This system provides an application of foreign workers and maids pass based on the on-line application system. With this system, user as registered employers no needs to go to the immigration department to make an application for foreign workers or maids pass. They can make the application through the internet. They just came to the immigration department when they need to send the related document of application.

b) Viewing information and statistic

These system also provides information on procedural necessary for the employer to make an application of the foreign workers or maids pass. The registered employers can view the foreign workers or maid information by enter the foreign workers or maid number. The staff can browse list of registered employer that have sent their application to see if the application is complete or not before proceeding on the process. The staff also can view the statistic of foreign worker or maid application by sector or citizen and view the comment from employers.

c) Registration

The utilisation of the system, the employer need to register for obtaining the password before making the application. The IC number of employers is used as a id number. Then the data will be record in the database. It is important to prevent unauthorized disclosure of a data and user must to log in if they want to enter the system. There are several options in the main menu and user can select the option to proceed with the system.

d) Status of Application

The registered employers will check their status of application by insert the IC number. The status of application consist approve, disapprove or postpone. The staff will check either the application is complete and fills the condition of foreign workers or maids application pass or not. Then the staff makes the decision to approve or not the application.

e) Security system

The registered employer can login and change their password from this modules. Staff at Ipoh Immigration Department also can login and change their password for security. With this module, unauthorized user cannot acces or explore on this system. Only the registered user and staff at Ipoh Immigration Department can used this system.

f) Specific platform and technology

This system is developed based on the web based technology and the platform of this system is windows. The system is intended to develop using PHP is the core programming language and MySQL to support the database storage. Microsoft Window XP Professional will be the most suitable platform for the development of FWAS.

1.5 PROJECT SIGNIFICANCE

The project significance of this system is this system will be developed based on the on-line concept. This system is similar with a web based system. The web based approach is choose because this approach is easy to develop the system and easy to understand. Besides, this approach also can achieve from anywhere through the internet.

The user will get more benefit from this system. Among the benefit are the user as registered employer will have a better service from the Ipoh Immigration Department. This system is more important because it can help staff at Ipoh Immigration Department to manage the application of foreign workers or maids pass with more systematic. This system is also can reduce an error in recorded the employers information, foreign workers information, and applications information.

These systems can enhance the manual system on application of foreign workers or maids pass. The registered employers can used this system to make an on-line application of foreign workers or maids pass. The user's just fill the on-line form with entered the related information and send the application. All the information of application will save in the database of the system. Then, staff will check the application is completed or not before process the application.

The manual system of foreign workers or maids pass is not systematic because they still used form on paper to make an application. Sometimes, the paper form lost from their saving. This cause they losing the information of application. But with this system, all application information will save in the database and staff is easy to find the information or data. These systems also allow user to add, deleted and update the information of employers and foreign workers or maids detail. For every application, the registered employers need to pay. For the payment, they just entered the bank slip number in the information of payment. From that, staff can check if the approval of application is already paid or not.

This system can give more benefit not only for the Ipoh Immigration Department, but it also can give more benefit for user as the registered employers and staff. This system is also user friendly and attractive. All the process in this system is become more effective and efficiency.