TESIS^ APPROVAL STATUS FORM

JUDUL: **TEACHER EXCHANGE SYSTEM (TES)**

SESI PENGAJIAN: **SEMESTER 1 (2004/2005)**

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DEDICATION

To my beloved parents
I love you all very much

I want to make dedication for my father Musa bin Jantan, my mother Bedah Binti Haji Aman, to my brothers and my sisters. They are very important person in my life. Without supported from them, this project never came true.

Thank you very much.

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Thank you very much!

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ABSTRACT

Kementerian Pendidikan Malaysia (KPM) is one of the big organizations in Malaysia. KPM is accountable to manage about the teacher or student problem or requirement. The responsibility is covering for the good deed to student and teacher learning and teaching, regarding school in the Malaysia with together the purpose and goal of the ministry to the student or teachers. KPM will simply the good deed for teacher or students and also will backing by *Jabatan Pendidikan Negeri (JPN).* The functions of the JPN are to responsibility for teacher, school and student interests. Whereas the *Pejabat Pendidikan Negeri (PPD)* responsibility to solve problem in the district at the mentioned state. The organization will related each other because every part has a different function for determine that learning process is smooth. So, for the big organizations they must have a system to manage the business. As being for that I would like to suggest build the system. The title of the system is Teacher Exchange System (TES). This system will be use for KPM, JPN, PPD and teacher. I hope in formed the system it will afford information and a good quality service to user. For collect the data and fact that they need, I was managing the research at JPN and also do the reference like book or surfing internet. I was interview at the Unit KBSR and KBSM.

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ABSTRAK

Kementerian Pendidikan Malaysia (KPM) merupakan sebuah organisasi yang besar. Kementerian Pendidikan berperanan besar dalam menguruskan semua masalah dan keperluan guru serta pelajar di seluruh Malaysia. Tanggungjawab Kementerian Pendidikan Malaysia adalah meliputi kepada kebajikan pelajar dan guru, pembelajaran dan pengajaran, perihal sekolah-sekolah yang terdapat di seluruh Negara serta tujuan dan matlamat kementerian pada semua pelajar dan guru. Kementerian Pendidikan akan memantau kebajikan pelajar dan guru bagi seluruh Malaysia serta di bantu oleh Jabatan Pendidikan Negeri (JPN) dan Pejabat Pendidikan Daerah (PPD). Fungsi Jabatan Pendidikan Negeri adalah bertanggungjawab ke atas kebajikan guru, sekolah dan pelajar di setiap negeri. Manakala Pejabat Pendidikan Daerah pula bertanggungjawab kepada semua masalah di dalam sesebuah daerah di dalam negeri tersebut. Organisasi ini saling berkait kerana setiap bahagian mempunyai fungsi yang tersendiri bagi memastikan proses pengajaran ini berjalan dengan lancar. Oleh yang demikian, organisasi besar seperti ini memerlukan sebuah system yang dapat memudahkan segala urusan mereka. Justeru itu, sebagai inisiatif kepada masalah ini saya mencadangkan untuk membangunkan sebuah system yang bertajuk Sistem Pertukaran Guru yang boleh digunakan oleh pihak KPM, JPN, PPD dan guru. Saya berharap dengan terbinanya system ini mampu memberikan maklumat dan perkhidmatan yang berkualiti kepada penggunanya untuk digunakan dengan selesa. Bagi mengumpul maklumat dan fakta yang diperlukan, saya telah menjalankan kajian di Jabatan Pendidikan Negeri di Melaka serta membuat rujukan melalui bahan bacaan dan internet. Saya telah menemuramah dengan kakitangan di Unit KBSR dan KBSM. Ternyata mereka memberikan kerjasama yang memberangsangkan.

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LIST OF THE ACRONYM

KPM	-	Kementerian Pendidikan Malaysia
JPN	-	Jabatan Pendidikan Negeri
PPD	-	Pejabat Pendidikan Daerah
KBSR	-	Kurikulum Bersepadu Sekolah Rendah
KBSM	-	Kurikulum Bersepadu Sekolah Menengah
SMS	-	Sistem Maklumat Staff
SDLC	-	System Development Lifecycle Model
ERD	-	Entity Relationship Diagram
HEM	-	Hal Ehwal Pelajar
LAN	-	Local Area Network
SDD	-	Software Design Description
GUI	-	Graphical User Interface
DFD	-	Data Flow Diagram
AUT	-	Application Under Test (AUT)

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CHAPTER I

INTRODUCTION

1.1 Overview

The title of system is Teacher Exchange System (TES). TES is the online system. The purpose of this system is to make sure teacher can easy include the information about they exchange application. Teacher need to key in the data in the form. After send the data they can know the status. Teacher can choose the exchange application likely within state or without state. It is have two part in the within state such as within district and between district.

For the within district will process the teacher data who want to change the school only in the district. For example teacher from Sekolah Kebangsaan Bemban at Jasin want to replace Sekolah Kebangsaan Kesang at Jasin. Jasin is a district. At the side of the between district will process the teacher data who want to change the school at the different district.

For example teacher from Sekolah Kebangsaan Bemban at Jasin want to replace Sekolah Kebangsaan Gadek at Alor Gajah. Jasin and Alor Gajah is a district. TES also will build to make easier for staff at *Kementerian Pendidikan Malaysia (KPM), Jabatan Pendidikan Negeri (JPN)* and *Pejabat Pendidikan Daerah (PPD)* make the online data. Beside that, the system has a searching data to find the teacher information. It is because at the database has many data about the entire teacher in Malaysia. In the admin module has a menu to appear about teacher requirement and

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option at the school. The new information about the teacher requirement will be update when it gets permission from KPM.

To develop this system as a web based will using ASP scripting language because Java Script, VB Script and SQL Server 2000 for database because and Internet Information Service (IIS). Window XP Professional will be use for the Operating System because it can support IIS.

1.2 Problem Statement

Teacher has a problem when they want to replace the school. KPM still does not have an online system for teacher easy to exchange the school. The application is still manual. Teacher must fill the form on the paper. The process is taking a time. Teacher can know the result one week from the date they send the letter to the KPM. Otherwise, School party also still use the manual concept sends the data to KPM, JPN or PPD. They send use the letter, diskettes, faxes and email.

Beside that, they use the Microsoft Excel and Microsoft Access to save the data. It is not suitable because the database is small and not enough to save the data. The organization is big so data must be much and they must have a big database to save all the data. Sometime has a data they keep in the file. It is also not suitable because it is not secured. Data maybe can lose.

1.3 Objective

i) To spend up the process of posting and placement of teacher

ii) To provide a tool to deciding and approving the placement application.

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iii) To provide online application.

1.4 Scopes

This system was build for teacher and KPM. Teacher Exchange System is a Teacher Exchange System. It is focuses to the teacher and JPN and PPD for make easier to them to make the online system. Teacher can use this system for apply the school.

System also has a function for search the data. Teacher just must enter the identity card to find them data. The system has a function for search state and district. This system will appear about how much teacher has been need at the school included the option.

The new information about the requirement will be update when its get a permission from *Kementerian Pendidikan Malaysia*. It is has two part in exchange application. It is within state or without state. For the within state has two part such as within district and between district. TES also has an error page and information page.

This page will use for alert. When the data has added at the database the information page will appear to inform user. If the data does not added the error page will appear. User can add again. Otherwise, this system will have a report to show the state, district, school and option.

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1.5 Contribution

The benefit from the project is can change the placement leaching from manual to electronic system. The staff can easy to know school have a lack teacher. Teacher also can know the status. They did not to take a long time to know the status of the application. KPM, JPN, PPD and teacher who apply the form will know the teacher requirement at school with more faster, efficient and interactive. User can make the online apply. The new applying information will be update for time to time.

1.6 Expected Output

The system may use at the future. It is because this system will build for teacher who wants to exchange the school. From the system teacher can know where the school are still have a place to they exchange. The system can help all the people that involve the staff exchange can easy use with this system. The system is easy to use and user friendly. Some function can not function for this moment, so for the maintenance later, they have to make sure all the button will be function.

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CHAPTER II

LITERATURE REVIEW

2.1 Introduction

Research at *Jabatan Pendidikan Negeri (JPN)* Malacca to get the information before builds the system. The method may use for the research is an interview with the officer at the JPN. .Second way to get the source is reading the book and surfing the internet. To do the research at the JPN must have a facts letter from the KBSR and KBSM. It is because this department might responsibility in exchange and placement teacher

2.2 Fact and finding Case Study

This is the information may get after do the researching at the JPN. The researching at Management Department, KBSR/KBSM Department, Secondary Department, Primary Department and Information Department.

i) Management Department

Responsible to transact the teacher placement, assessment, increment rank and transact service relevance.

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ii) KBSR/KBSM Department

Responsible to give permission do the research in the department at JPN or to give permission do research at school in state and out state.

iii) Secondary Department

Responsible to transact about the secondary school included placement and teacher exchange.

iv) Primary Department

Responsible to transact about the primary school included placement and teacher exchange.

v) Information Department

Accountable to give administer and to save all the information the teachers, student and matter about school, department and ministry. Based on the staff explanation, this department was use two system. The systems are *Sistem Maklumat Staff (SMS)* and *Sistem Maklumat Pengurusan Pendidikan (SMPP).*

vi) Sistem Maklumat Staff (SMS)

This system is for save staff data like teachers or non teachers. It is have more than 11 thousand data about teachers and non teachers in the server at JPN Malacca. These systems use the oracle RDBMS and developer 6. It is also save the data about the staff who working at the school and JPN.

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vii) *Sistem Maklumat Pengurusan Pendidikan (SMPP).*

This system was build use the Microsoft Access and mostly used at school at Malacca. These systems are easy for teacher planning. But just one person will responsible to update the data for a week or months refer the school requirements. It is will bridle by Data Department Planning Part and Fundamental Education.

Teachers information who want to do the school exchange and revise the placement will reins at Information Department. When the teachers has the confirmation did had a place so the data at the Information Department will be changed. From the research, I find out the application still manual. Even the data will insert in the database but the database is small. The procedures to do the application also are manual. Teacher need to wait a long time to know the result for one week. The duration are long because take time to process the form. KPM, JPN and PPD should know school that the teacher applies had a teacher or not.

From the school part, the data will send to JPN by email, letters, floppy, and facsimiles. JPN also has a certificated from ISO 9002:2000 and the management is systematic. The process to teacher exchanges is:-

i) Teacher who wants to do the exchanges must have an exchange circular.
ii) Then, the application form will hand over to headmaster for the confirmation. Teachers also must have a bracing document. The bracing documents are for to prove and firm your reason to exchanges the school.
iii) After that, the application form would send to the JPN. The officer at JPN going to certified the form.
iv) If the application was pass, so teacher need to ready the transformation report (KEW.8) and Last Salary Certification (SGA). In this process headmaster need to certified. The document will send to JPN again.
v) Then, the officer at JPN certified the application.

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vi) Payroll should ensure payment last salary of month will made of. After get the certified from JPN teacher need to equip the SG20 form for withdraw the Salary Evidence refer by SG20. In this part the headmaster will certified.

2.3 Conclusion

As the conclusion their system did not efficient and not suitable for a big association like KPM and might to suggest build the online system. The system will make easy to access. From the research, the entire problem that has been related with the education can be categories for several part, school checking, application form and also valid the application have a problem when teacher want to apply the place of the school. The manual teacher has to fill out form for applying.

For ensures that Teacher Exchange System are designed with fixed timescales, and procedures was decide to use Waterfall Model. Waterfall is usually better for modifications to existing systems or building large scale systems after proof-of concept prototypes have been established. Waterfall method begins with target system requirements and progresses through analysis, design, development, acceptance, installation, and maintenance. This approach rates high in terms of logical planning, development, and solidity; but its inflexibility to changes in user requirements can lead to completed systems that must undergo expensive revisions.

The Waterfall Model is use for ensures the systems may designed with fixed timescales, and procedures. It is because waterfall model is good for modified and build a large scale system.

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