SMKTD EVENTS CALENDAR SYSTEM

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FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL M ALAYSIA MELAKA
2008

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DECLARATION

I hereby declare that this project report entitled

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

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DEDICATION

Firstly I am very thankful for my beloved parents for their full support. They help me a lot in giving moral and financial support. At the same time, their guidance and encouragement are vital for the outcome of the project.

I also dedicate my appreciation to my friends and classmates who lend their ears and giving some ideas in making this project a successful project. Without their help and support, I would not be able to finish the task on schedule.

And also not to forget to my supervisor En.Mohd Sanusi Bin Azmi who have supported me all the way since beginning of my thesis.

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ABSTRACT

'SMKTD Event Calendar System' is a useful system which can give benefit to school management and also to the staffs in managing staff's activities in easier and systematic system. The advantage of using this system is it helps the users to manage and view their activities through online system that have been organized by the school management which might involve their participation. At the same time, users can use this system to organize and schedule their own activities which may need the school management to find replacement for the time being. The school management system can be efficient with the secure database and gives the latest updated information. With this latest updated information, the school management can take action in searching for replacement if there are staffs who cannot attend the activities. Besides that, the interface in this system is easy to use, interactive, and user friendly.

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ABSTRAK

'SMKTD Event Calendar System' merupakan sebuah sistem yang dapat memberi faedah kepada pentadbiran sekolah dan juga kakitangan dalam menguruskan aktviti-aktiviti kakitangan sekolah dengan sistem yg lebih mudah dan sistematik. Kelebihan kepada pengguna yang menggunakan system ini ialah ianya membantu pengguna menguruskan aktiviti-aktiviti secara 'online' dan akan di beritahu di dalam sistem sekiranya pengguna perlu menghadiri sesuatu aktiviti. Pengguna juga dapat menjadikan sistem ini sebagai tempat menyusun dan menyelenggara aktiviti peribadi yang memerlukan pihak pengurusan untuk mencari pengganti dalam tempoh masa pengguna itu tidak dapat berkhidmat. Pengurusan pihak sekolah akan menjadi lebih mudah kerana sistem ini menawarkan perkhidmatan penyimpanan data yang effisien serta memaparkan maklumat terkini di dalam laporan. Dengan maklumat terkini, pihak pengurusan dapat menagmbil tindakan segera sekiranya ada kakitangan yang tidak dapat menjalankan tugas pada masa-masa tertentu. Selain itu, antaramuka dalam sistem ini juga lebih mudah, menarik dan mesra pengguna.

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LIST OF ABBREVIATIONS

API	Application Programming Interface
CSS	Cascading Style Sheets
DBMS	Database management System
DDL	Data definition language
ER	Entity Relationship
ERD	Entity Relationship Diagram
FTMK	Fakulti Teknologi Maklumat dan Komunikasi
HTML	Hypertext Markup Language
JDK	Java Development Kits
JSP	Java Server Pages
OOADM	Object Oriented Analysis and Design Method
ECS	Events Calendar System
RUP	Rational Unified Process
SDLC	Software Development Life Cycle
SQL	Structured Query Language
UML	Unified Modeling Language
UTeM	Universiti Teknikal Malaysia, Melaka

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CHAPTER I

INTRODUCTION

1.1 Project Background

SMKTD Events Calendar System (ECS) will build for Sekolah Menengah Kebangsaan Telok Datok which is situated in Banting, Selangor. Before this, the administrator will inform to the staffs about their calendar events and take notes on whiteboard. All data on whiteboard is unmanageable because it depends fully to staff to write on current activities. Its make some difficulty for staff to check and update their activities.

Thus, it will trouble the administrator to rewrite an event on whiteboard if any unexpected changers occur. The development of ECS is purposely used to change the old manual system that had been used until today. This system will be used by administrator and staff to manage and view their events and manage it systematically.

Meanwhile, the administrator can save the events' calendar in a database and maintain the information data from losing. Besides, this system will update all the events if there have any unexpected changers. From this project, I will gain a new experience in developing the events calendar and also will learn more about Java language since I were used it to develop this project. Besides, it will develop my skills and knowledge in software development and apply it in this project.

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1.2 Problem Statement

There are several problems that I realized, and this makes me think that this system should be developed. One of the problems is, sometime the staffs (teachers) forgot their outside meeting or programmes with the educational ministry. They need to check their activities at administrator office and this situation will trigger uncomfortable to the staffs (teachers). In addition this school still used white board to inform those teachers who have an outside and inside activities and this method are less efficient to the staff (teachers). Besides, all the activities are not been documented. Therefore, I am proposing ECS in helping the administrator adding new activities that can be viewed by all staffs (teachers) through the system.

1.3 Objective

Objectives are the purpose of the project that needs to be complete at the end of this project. It will be done to overcome the problem statement. The objectives of ECS as below:

- **To develop the event activities system**

  ECS will provide the system event activities. This system will help admin manage all the event efficiently and systematic with no wasting time to make notes on whiteboard.

- **To announce an events**

  ECS will be able to announce the new events or updating an event which unexpected changer occurs.

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- **To documented all activities**

From this system, all activities will be store in database and it make easily to administrator to keep track on the staff (teachers) activities. Besides, all data will be stored in secure. This system allows other staff (teachers) to view other staff (teachers) activities.

- **Report module**

In this module administrator and staff can print the entire calendar's events.

1.4 Scope

This section will define the system features, specific users and the technologies used.

1.4.1 Scope of user

- **Administrator**

The administrator is usually responsible for manage all management in the office school.

- **Staff (teachers)**

Staff which is a teacher will almost used this system for viewing their becoming events and activities.

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1.4.2 Scope of the system module

There will be 4 modules to develop the ECS. Each module will have its own function. The module is listed as below:

- **Administration Module**

The administrator can view the staff event and at the same time, they can update and delete the calendar's events of the staffs. The activities announcement for all the staffs can also be uploaded by administrator.

- **Staff Module**

Staff can update their own planner which they can enter at any time; daily, monthly, yearly or incoming events on their calendar. Staff also can view other staffs' events on the calendar.

- **Event Module**

Administrator or staffs can create or update their events through this system.

- **Report module**

In this module administrator and staff can print the entire calendar's events.

1.4.3 Scope of platform

The platform used to develop ECS need to used several software, hard ware and network requirement. The scope is listed as below:

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- **Software**

Table 1.1: Table of Scope for Software

Operating system	Microsoft Window XP Professional 2002 Service Pack 2
Web Server	Tomcat ver 6.0
Database Management System (DBMS)	JavaDB
Interface	Macromedia Dreamwaver 8
Programming Language	Java Server Pages

- **Hardware**

Table 1.2 : Table of Scope for Hardware

Hardware	Processor – 533 MHZ above RAM- 64 MB DDR2

1.5 Project Significance

ECS helps school staff to manage their events activities. This system provides applications that assist administrator to manage the staff event information. The system can reduce the administration and management hassle. Besides, administrator can check, view and add new information of the incoming and the present events. Besides that, to make sure that the flow of the system is more organized and the data is accurate and available at any time.

The system also allows search function to other staffs (teachers) to check and view their activities. Moreover, this all data in this system will be saved in the database. So the data will be more secure and can be easily retrieve from database.

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1.6 Expected Output

The expected output is the result from the objectives that had been stated earlier in this chapter. It will be used in a web-based application which can be used by all staffs (teachers) and admin by using their networking computer in school. Besides, this system also can be an alert and reminding the becoming activities to their users. ECS will provide the functionalities:

- This system can easily access calendar events each school staff.
- This system will announce new events and updating unexpected changer occurs.
- All data will be stored securely in database
- This system will generate events report.

1.7 Conclusion

This chapter describes introduction phases of ECS. In the project background has explained about the introductions of this system. The missions to overcome the problem are covered as the objective of this project. Hence, this ECS will be a systematic system and replace the current system which still uses white board to notes all the staffs (teachers) activities. It will develop in more efficient way and meet user requirement and specifications.

The information from this chapter will be use for the next chapter. For the next chapter, I will cover the project development and the methodology of the project. Moreover, it will describe more about project requirements and shows the project schedule and the milestones.

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CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

Literature review is searching, collecting and analyzing fact and finding about project's topic. A general survey will follow by the discussion of the development and implementation of an information system to supporting all aspects of the events calendar problem. A conclusion will be drawing based from all the issues raised. On the other hand, project methodology is about all the available tools, approach and technique to be used to develop the objectives of the project. This chapter will explain in detail how the research based on ECS is done and research of methodology and software that are being used in this project. It's also concluded with a constraint based on method results generated on the effectiveness of the system.

2.2 Facts and Finding

In this part, the developer will first analyze the methodology that will be used in this project. There will be three current systems will be attached. Through the case research, the system development knowledge will be assisted in according to the minimum aspects for this project.

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2.2.1 Domain

ECS will be developed for the Administration department of Sekolah Menengah Kebangsaan Telok Datok. It will be applied in the department to aid the staff in running the services smoothly. The domain of the system is management. This system provides managing the events to staff and generating events report.

2.2.2 Existing System

- **WebCalendar**

WebCalendar is a PHP-based calendar application that can be configured as a single-user calendar, a multi-user calendar for groups of users, or as an event calendar viewable by visitors. WebCalendar have search function but its only search by the events not by the staff. It also cannot generate report for the events and print it output.

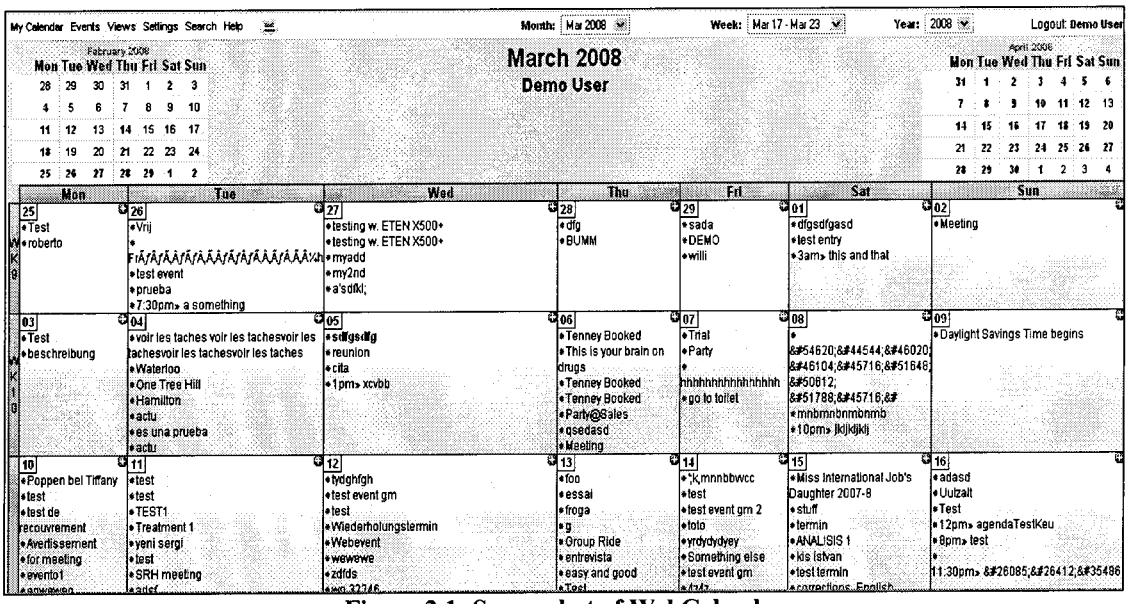

Figure 2.1: Screenshot of WebCalendar

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