A SECURED WEB BASED ASSIGNMENT SUBMISSION SYSTEM

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ABSTRACT

A Secured Web Based Project Submission System is a project proposed to solve the project submission difficulty among lecturers and students of FSKSM. Some students find it inconvenient to hand in assignments manually and others find it too costly. Therefore, the idea to develop an application using Web to submit projects and assignments was proposed. The system aims at providing an alternative means for students to hand in their assignments through Web. Using the system, students are able to view the assignments given, their due dates, the marks and announcements posted by lecturers. Assignments that are submitted will be encrypted using DES algorithm to avoid any form of security attacks. Before entering the system, users will also be authenticated using user name and password. Password will then be hashed using Message Digest 5. The methodology selected for this project is Rapid Application Development due to its suitability. This system was developed using Java technology such as Java Server Pages, Servlet, JavaScript and JDBC. It is hoped that this system will benefit both the students and lecturers of FSKSM.
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CHAPTER 1

INTRODUCTION

1.1 Introduction

In 1998, we saw an explosion of interest in the Internet and World Wide Web (WWW). Initially in the 1980’s, Internet use was limited to universities and research institutions, then the military began using the internet. Eventually, the government allows access to the Internet for commercial purpose. Therefore, it cannot be denied that Internet technology is now part and parcel of human life in this century.

A secured Web-Based assignment submission system is a system built for the students and the lecturers of FSKSM. It allows students to submit their coursework or assignments through Internet. Students are able to view the assignments given and also their due dates through the Web page and able to submit through it. As for the lecturers, they will be able to check on the number of students who had handed in, their submission date, time and etc. Lecturers will also be notified through e-mail when the students had handed up their assignments. This can save time and energy for both students and lecturers.

This system will also have security features to make sure that the assignments submitted are not modified in any way, thus ensuring the integrity of the files sent will
be maintained. Besides that, users will first have to be authenticated before using the system.

1.2 Problem Background

Assignment has been part and parcel of student’s life in university. Most subjects require at least one assignment done individually or by group. Thus some problems arise during the submission of assignment. Most of the time, students will pass up close to the dateline. Therefore, it is difficult for lecturers to detect when the students pass up late especially when they hand it up during the late evening or night. It is even harder when the lecturers are not in the room. Most students opt to sliding it under the lecturer’s door or leave it outside. This may lead to loss of assignment.

Most of the assignments have to be passed up as hardcopy. Therefore, students have to spend quite a considerable amount of money on papers and printing. This is hard on the poorer students and those who do not have that facility such as printer.

After the assignments are submitted, lecturers have to check it one by one to determine whether all the students had passed up or not. Lecturers also have to go through all the assignment to find out if there is any plagiarized of assignment. This is a tedious work for lecturer.

1.3 Purpose

The purpose of this project is to provide a system that enable students to submit their assignments through Internet securely.
1.4 **Objective**

In order to achieve the purpose stated above, a few objectives have been outlined. Below are the objectives of the system:

i) To develop a secure Web-based assignment submission system as an electronic means of passing up assignment.

ii) To provide an alternative mode of passing up assignment.

1.5 **Project Scope**

The scopes of this system are stated as below:

i) Develop a module for student where they can hand in their assignment electronically. The system will determine the identity of the student and whether the assignments had been handed up. Students are able to view the assignment given and their due dates.

ii) Develop a module for lecturers where they are able to view who has passed up the assignment and find out if there is any possibility of plagiarism. Possibility of duplicate assignment will be based on the size of the file sent.

iii) Lecturers will be notified when student hand in assignments via e-mail. The lecturers will also be able to upload any new assignments together with their due dates.

iv) Develop a module for the system administrator to manage the system and handle the registration.

v) Study on a few types of encryption and authentication techniques.

vi) Deploy authentication and encryption to protect the system.
1.6 Importance of the system

The secured Web-based assignment submission system will be built for the students and lecturers of FSKSM. It is hoped that it will bring ease and flexibility for the users. Below lists a few of the benefits of this system:

i) Easier for students to hand in their assignments through Web

ii) Able to determine the time of submission, thus it can detect assignments that are late.

iii) Able to check for possibility of duplicate assignment.

iv) Prevent loss of assignments.

v) Lecturers able to pin up information on new assignments in the Web.