Course File Management System

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Abstract - The archiving system for course files is very important for all departments in the University of Tabuk and the main aim of this system is to solve the problems related to submission the files by hand from faculty members to the Committees of Academic Accreditation in the university faculties. The system contributes significantly to save time and efforts of the faculty members and committees. The members in the faculty can access the system easily and upload the required files during the semester without waiting until the end of the semester. The system will allow the members of the committee to write notes on the files delivered to them after reviewing as well as the system will send SMS to faculty members to remind them in case of delay in submission of requested files. The program will also save time and effort of the employees in submitting the files by hand. The main advantage of this project is to design quick and easy user interface for use by accreditation committees, the faculty members in accordance with the specific authorities for submitting the files of courses and reviewing them.

Keywords - *Document Management System, Electronic System, Web-based System, System Analysis and Design.*

1. Introduction

The electronic system for archiving academic accreditation course files is an important step in facilitating the process of communication between faculty members and academic accreditation committees in the departments of the university. This system aims to solve the problems of submitting the files by hand to the committees.

The aim of this research project is to design a system for archiving course files electronically at the University of Tabuk, which has the following characteristics:

1) Confidential information: The members can access the system in a secured way with a user name and password.
2) The members can access the system easily at any time from   everywhere.
3) Creating a good environment to the faculty and provide all the solutions to their problems.

2. Related Work

The goal of the study in [1] is to establish a reformatting interface using the DICOM (Digital Image and Communication in Medicine) file management system to transfer paper-based records into DICOM format. Once in DICOM format, these records can then be sent to the DICOM server so that they may be accessed via the DICOM Viewer cross hospitals. This study also aims to transform text information into DICOM format so that files may be exchanged with other hospitals through DICOM's secure system so that medical records can be incorporated into hospitals' image systems to form a congregation of hospital resources.

The work in [2] is attempting to create web application, which provides fast, easy to use interface for documents publication and management. The main target of the work is to create platform independent Web Application to manage and distribute electronic documents just using Web browser. The point is to create application that do not need printable copies of documents.

The paper in [3] presents the design and implementation of two web-based document management systems customized to serve the need of an international organization. The systems were designed to replace a paper-based process that gradually became unmanageable due to the increasingly large volume of texts and the need to distribute the documents to geographically remote locations.

Nowadays more and more electronic documents are produced from the daily work of the government, military, enterprises, institutes, and etc., and how to facilitate these e-documents' creation and distribution is of increasingly great importance [4].

The goal of the work in [6] is to present a model for the complete and effective replacement of a paper based document system to paperless system. The model is three-tier architecture: electronic documents

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generation, electronic documents management and electronic documents sharing.

There are many kinds of Online Courses platform, like Webct, Blackboard, MoodIe and so on, and have a very fast speed of development. But some people begin to find they couldn't bear the platform that frequent upgrades and feature updates. Perhaps no other innovation in higher education has resulted in such rapid and widespread use as the CMS[7].

The paper in [8] proposes a document based framework for the modeling of web-based choreographies involving a tight combination of workflow and data management. This paper has introduced an XML based distributed framework for services choreographies, thus supporting information and workflow management in a unified framework.

A multi-user desktop application [9] is presented which can be implemented in any academic institution to record and manage all sort of permanent and day-to-day statistical data of students and staff. Other than this data, the paper also presents the computerized solution to save all the necessary documents/letters/certificates in the database through multi page high speed scanning system which can be retrieved and reproduced through a powerful query system.

In [10], a new approach is proposed to manage distributed software project documents, which based on Document-oriented Database (DoDB) instead of the usual relational database. The work implemented a Web-based prototype application, which is convenient for users to manage software project documents in the collaborative distributed environment.

3. System Analysis

The scientific departments in Saudi universities has no an electronic system to receive and save course files. The committees are working manually in receiving the files for review for academic accreditation purposes. The process is wasting time and efforts of the faculty members. The new electronic built system solved the problems in old used manual systems. The member can submit each part of the file without waiting until the end of the semester[11-19].

4. System Overview

The system has the following parts:
   a) System management: this part is the process of access control to the system and give authorities to the faculty member.

   b) File management: This program aims to organize the process of uploading and downloading files and send them to the committee.
   c) Accreditation committee management: This subsystem review the files and send notes to the faculty member to correct errors and send them again to review committee.

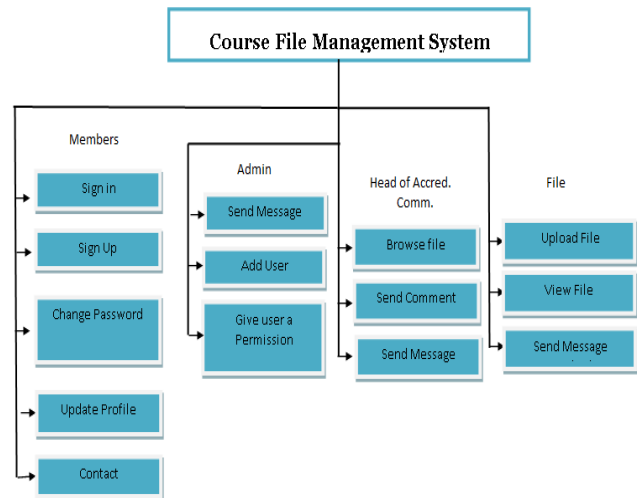The system is shown in the following figures:
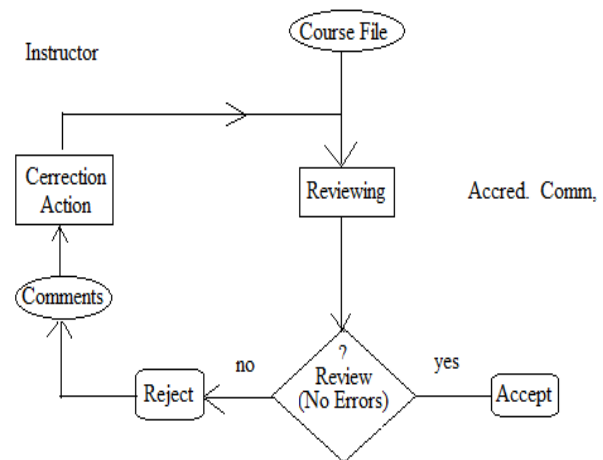

Fig. 1 The System Parts diagram.

Fig. 2 The Proposed System Flowchart.

The system [11-19] is implemented using asp.net c#(Microsoft Visual Studio 2008), (SQL Server 2005) and HTML

5. Conclusion

A good electronic course file management system is designed to ease the contact between the faculty members and the accreditation committees at the University of Tabuk.

Acknowledgments

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