

First Assignment on Web Based File/Document Management System

Deadline: Saturday, 07th November 2015 at 12:00AM

Upload it as a Zip file to <http://www.dropitto.me/rahnama> with subject line YourName-FatherName-Assignment-01 (e.g. Ahmad-Abdul Ghafoor-Assignment-01.zip)

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The aim of this assignment is to develop a file/document management system that is able to deliver access to instructors and students authorized anytime, anyplace on any device to the study materials.

The intended system will make use of internet technology to replace the traditional file sharing and content management with rich Internet applications. This system will enable instructors to manage and maintain the course materials (e.g. handouts, assignments, presentations etc) within the web browser and without any support installed. In other word, the only requirements are an Internet connection and a web browser.

The instructors will register to the system using a pin code provided by the system administrator or from their institution. This pin code can be used once and after validating the pin code the system will display the registration page. A directory must be created after the user registration, and all his/her credentials should be stored into a plain text file in this directory, plus all his/her uploaded files. Users password should be encrypted.

The instructors can upload any file format except pre-compiled packages (e.g. .exe, .deb, .dmg).

In addition, the system should has the following main features:

- Users (Instructors/Students) should be able to register to the system
- The system will not use any RDBMS (e.g. MySQL, Oracle, SQL Server) for data backend management
- The system will enable the instructors to upload files with specific predefined file permissions (or they can manually change the file permission when they are uploading the files, or they can change it later on)
- The system will create a static index page into the users directory right after their registration, and all uploaded files should be accessible from the index page. When the user uploads the file, the link to access the file should be created automatically on the index page.
- The users can also create CSS and JavaScript files to maintain the webpage presentation and add some dynamic features, and the system will provide a builtin editor to edit the HTML files, stylesheets and scripts. Adding to that, the users should be also able to modify the text files through the same editor.
- In order to download the files, the students have to authenticate themselves by entering their username and password. They can access the uploaded handouts, presentations, and assignments. Also, they can upload their assignments to a specific directory created

by relevant instructor/s. This directory should be private and only visible to particular instructor and students.

- The system shall be able to maintain user management.
- In addition to other file formats, the users can also upload Zip files, and the system should provide a functionality to extract the zipped folders, or likewise, the users should be able to compress files into zip files.
- Users can not upload files more than 5MB size.
- Users shall be able to copy, move, rename and delete their files.
- Documents can be viewed or edited directly in the browser.
- The system shall provide full permission management on group, user, folder or file level allows total control on how users can access them.
- The system must be localized into three languages (Pashto, English, Dari)

User manual and system technical documentation are required to be submitted with the source code.