

Assignment – Faculty Portal

You are assigned to help Professor XYZ to create a new Faculty Portal for him to enter Attendance information, create a new assignment and handout. Professor XYZ has only one class. You will use the MVC pattern to create this website based on the example BookAppMVC. Here are steps that you will follow to complete this task:

- I. Create a new PHP project named OSCSite.
- II. Create folder structures based on the MVC design pattern that you learnt in the class
- III. Create and code the appropriate files according to the following requirements:
 - A. The data should be stored in MySQL database. So you provide scripts for handling the database. Please refer the Views section to design your database tables.
 1. db_connect.php
 2. osc_db.sql (that is a script for creating a database, tables, and inserting some data for testing).
 - B. Models - Please refer to your database design to create model and repository classes.
 1. StudentRepository.php
 2. Student.php
 3. AttendanceRepository.php
 4. Attendance.php
 5. HandoutRepository.php
 6. Handout.php
 7. AssignmentRepository.php
 8. Assignment.php
 - C. There is one controller named **faculty**, so you should create one folder named faculty under the controllers folder. Then add the following actions:
 1. show_faculty_home_page.php (default action)
 2. show_attendance_page.php
 3. save_attendance.php
 4. show_handout_page.php
 5. save_handout.php
 6. show_assignment_page.php
 7. save_assignment.php
 - D. Views
 1. faculty_home_page.php that shows 3 links: Attendance Page, Handout Page and Assignment page. In addition, you will add a drop-down list for a week no. (1 to 15) for Prof. XYZ to select a week no.
 2. attendance_page.php that allows a professor to record students' attendances. The page should contain:
 - a) A label - week no that has been selected by Prof. XYZ from the faculty home page. Notice that if the attendance records of the selected week already exist in the database, then the page should show the data from the database.
 - b) A table of students' attendances. Each row should have:
 - (1) Student ID
 - (2) Student's Last Name.
 - (3) Student's First Name.
 - (4) A dropdown list that contains the following values: (P) present, (A) absent, (E) leaving early, and (L) come late.
 - c) A Submit button to save the changes.
 3. handout_page.php that allows a professor to create a new handout page. The page should contain the followings:
 - a) A label - week no that has been selected by Prof. XYZ from the faculty home page. Notice that if the handout for the selected week already exist in the database, then the page should show the data from the database.
 - b) A large TextArea for the handout content (needs data validation for checking empty input)

- c) A Submit button to save the changes.
- 4. assignment_page.php that allows a professor to create a new assignment. The page should contain the followings:
 - a) A label - week no that has been selected by Prof. XYZ from the faculty home page. Notice that if the assignment for the selected week already exist in the database, then the page should show the data from the database.
 - b) A large TextArea for the assignment questions. (needs data validation for checking empty input)
 - c) A textbox for Total marks (needs data validation for a valid integer)
 - d) A textbox for Due date (needs data validation for a valid date)
 - e) A Submit button to save the changes.
- E. Create a CSS file that styles your website.