

DBMS Lab Assignment 3:

Web Based Information System Design

The goal of this project is to build a complete web based information system having a backend database, a connectivity server, front end scripts and finally a form based web interface. Any database server/scripting language can be used to build the system. However, the use of a database and scripts are compulsory. The information system to be built is a:

Course Management System

Objective:

- i. To provide web based application for online course design, course calendar publishing, and student's registrations for self-paced learning.
- ii. Content administration, assignments, and assessments

Users of the System: A. Students B. Faculty/Teachers/Professors C. Parents D. Admins

Functional Requirements:

- i. The system must be able to display the course syllabus. Also, other information like prerequisites, registration, payments, and contact information for the instructor should be displayed.
- ii. The system should provide a student registration module for an offered course.
- iii. The system must provide a dashboard which will be the home page after login. The dashboard should display courses registered, upcoming course calendar, and notice board for current information about the ongoing courses etc.
- iv. The system should provide the course contents such as copies of lecture in the form of text
- v. The system should offer self-assessment quizzes which will be displayed to users after each course attended.
- vi. The system should support email for communication with the faculty for support and guidance.
- vii. The system should also provide role based access to students, faculty, and course administrator.
- viii. The system should provide a module to design course, to create course calendar, and publish the course content.

Group size: At most 4 students per group.

Submissions:

- i. Demonstration of the project in Lab.
- ii. A report consisting of: a. Name and roll number of group members, b. ER Diagram, C. Workflow diagrams, D. Module diagram of the system, D. List of tools used. Mail the pdf version of the report to Tejas Dp tejasdp20@gmail.com. The subject of the mail should be DBMS3.

Time: 3 weeks