# DBMS LAB Project

## Project Title: To build a web interface for learning platform (like Coursera)

1. Objective –  
   To build a web interface for a learning platform where the instructors can provide their lectures and the students can enroll for there courses with secure transactions.
2. Software Used –

* Frontend: HTML and CSS (for styling)
* Backend: PHP
* Database: MySQL
* Server Environment: Apache + MySQL (using XAMPP)

1. Database Design –

* Users: stores data of the students and instructors
* Courses: stores the data for the courses added by the instructors
* Lectures: stores the data for the course lectures.
* Enrollments: stores the data of the students enrolled to the course.
* Exams: stores the exam details provided by the instructor
* Exam\_questions: stores the questions for respective exams
* Exam\_attempts: stores the score and the attempt of that particular attempt
* Results: store the result of the particular exam
* Comments: store the comments made on the discussion forum
* Forum: store the data posted on the discussion forum

Key Constraints –

* Unique login credentials for every user, with password hashing for encrypting the passwords.

1. Key Features & Functionalities –

* Login/Registration –
  + Ensures that all users have unique credentials
  + There are 2 different logins (instructor and student)
* Upload Courses –
  + Instructors upload their course content, video URLs
  + Instructors can set exams for the uploaded courses
  + They can also comment on posts made on the discussion forum
  + And also make their own posts on the forum
* Updating Course Content –
  + The instructors can update their course content and delete the content of a course
  + Instructor can also change the questions and answers of the exams for the courses that they are providing
* Course Enrollment –
  + Students can enroll for multiple courses available on the platform
  + Students can take tests of the enrolled courses and get a certificate on completion
  + Students can make posts on the discussion forum and comment
* Dashboards -   
  Both the students and the instructors have their different dashboards with the respective required features

1. User Interface -  
   A clean and minimalistic styling is done for better accessibility, as shown below

