Database Management Systems - CSE2004

Fall Semester - 2017~2018

Project Report

Review III

Slot - D2
Faculty - Murali S.

Title: Creating an upgraded CAL Management System

Team Members:
1. Omkar Vivek Sabnis - 16BCB0001
2. Gana Teja Akula - 16BCE2051

Index

Contents

1. Introduction

Computers in the present world are more powerful than the human mind. It can be argued that we are far behind computers in processing power. If not for emotions, we would have been lesser beings. Hence, our work done by computers will be much better and accurate.

Databases are such a method where computers are being used to keep records rather than human book-keepers. They have no errors and finding information is very easy. Hence, we are trying to implement the database systems so as to improve our grasp of this fundamental unit of computers.

1.1 Abstract

This project deals with the designing and implementation of a website that can process VIT's CAL system. A student submits documents as DAs, Labs or Project Reviews. A teacher will chek these documents submitted by the student and grade them. The above has been implemented in our system. We have added an additional feature in our version of vtop that doesn't exist in the present vtop - the comment system.

The end product will be a website where students and teachers will be login and execute the CAL system that works in our college.

1.2 Motivation

The motivation behind this project is obviously the vtop system offered by our college, which offers many features like attendence, the course page for the courseware and the CAL system.

We have been using this system for a year, thus arousing our curiosity about how this system works and how easy or difficult is it to implement this.

Since, we are learning Web Programming along with Database Systems, we decided it will be a good experience for us to combine these two important parts of Computer Science, which go hand in hand

in the real world. thus, we decided to implement a working prototype of vtop but constraining ourselves to the CAL Management part due to the time constarint of a semester.

1.3 Aim

We are focusing on the Student and Taecher logins and not on the admin. We can see that the CAL system doesn't require the admin - as in a registration scenario. The admin isn't necessery.

Students should be able to see their personal information details, their registered courses and submit and talk to the teachers.

Teachers should be able to see their personal information, alloted courses and see, grade and comment on assignments.

The above mentioned points have been the goal we have been aiming at.

1.4 Objective

The main objective is to learn about a database system and simulate such a system, so that under all circumstances, there should be a connection between the front end and the back end.

We have to learn about teamwork and how to divide work into modules - a system that is used in the industry.

We have to improve our programming skills in languages such as php, html and sql.

We have to learn to use many software like Apache Web Server, mySQL, Xampp and many more.

To improve our presentation skills by presenting our work to our faculty and to gain their input.

2. Overview

The project will open up to a login page - with two portals - one for both students and teachers. The project has been stored on the server.

On logging into the student portal, we see two tabs - My Info and CAl Management. The My Info tab will display the personal information of the logged student. The CAL Management tab will show the registered courses - CourseID, Course Name, Type, Credits and slot. On clicking the process button, we will be taken into the Course Activities Page, which will hold the DA submission, Lab submission and Review report submission pages. Each of these pages will have a question viewing portal along with a submission and a viewing portal. The comment will also be on the same page.

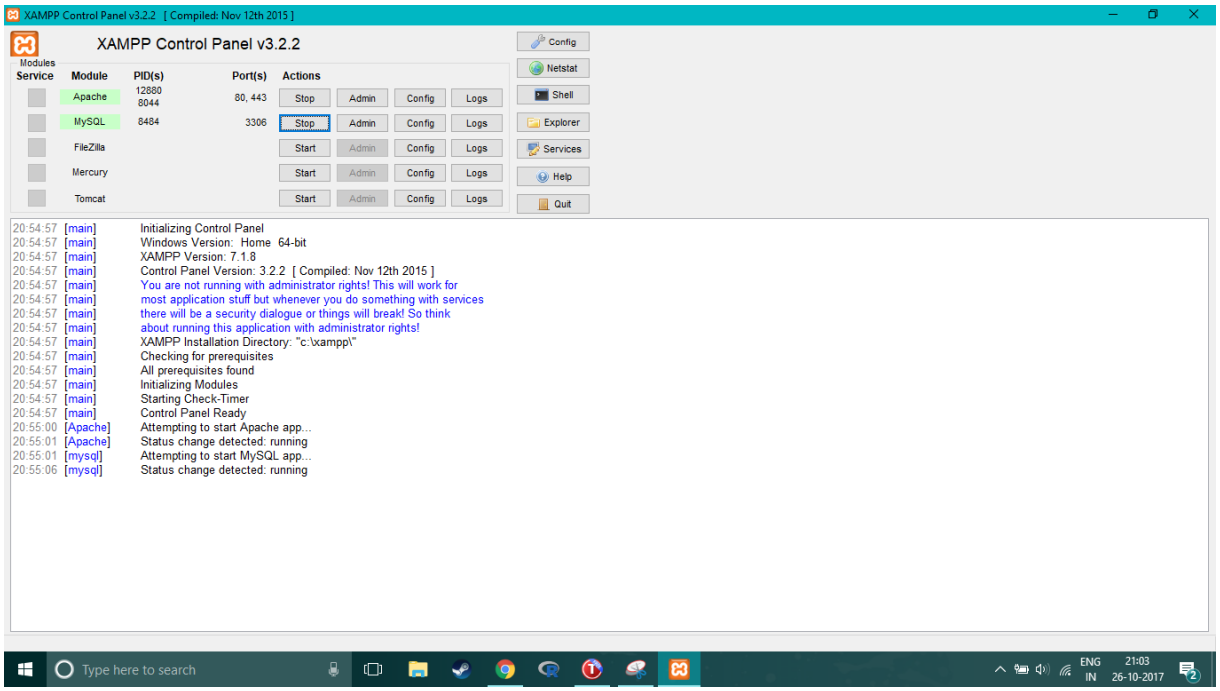
On logging into a teacher page, we will see the same things as the student login except the submission page will have the grading instead of answer upload.

The top right of the page has the Log Out button.

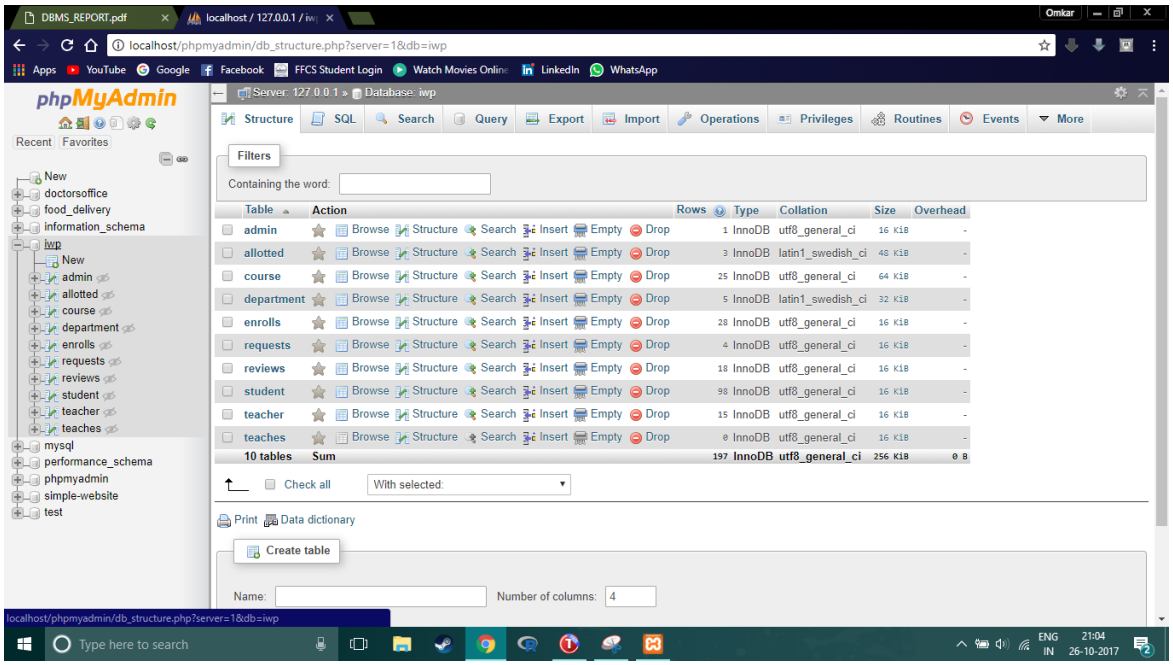
2.1 Requirement Analysis

For the project, we needed the following softwares:

(1.) XAMPP - Hosting the mySQL server

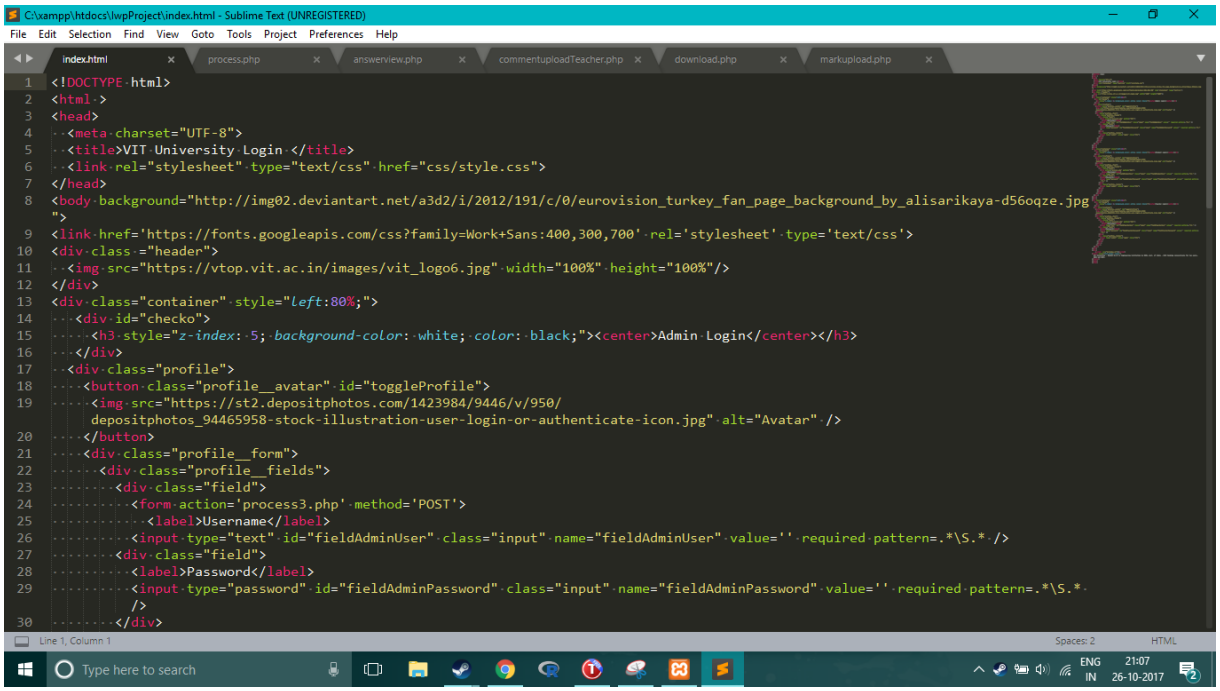


Control Panel for XAMPP



phpMyAdmin - Accessing our Database

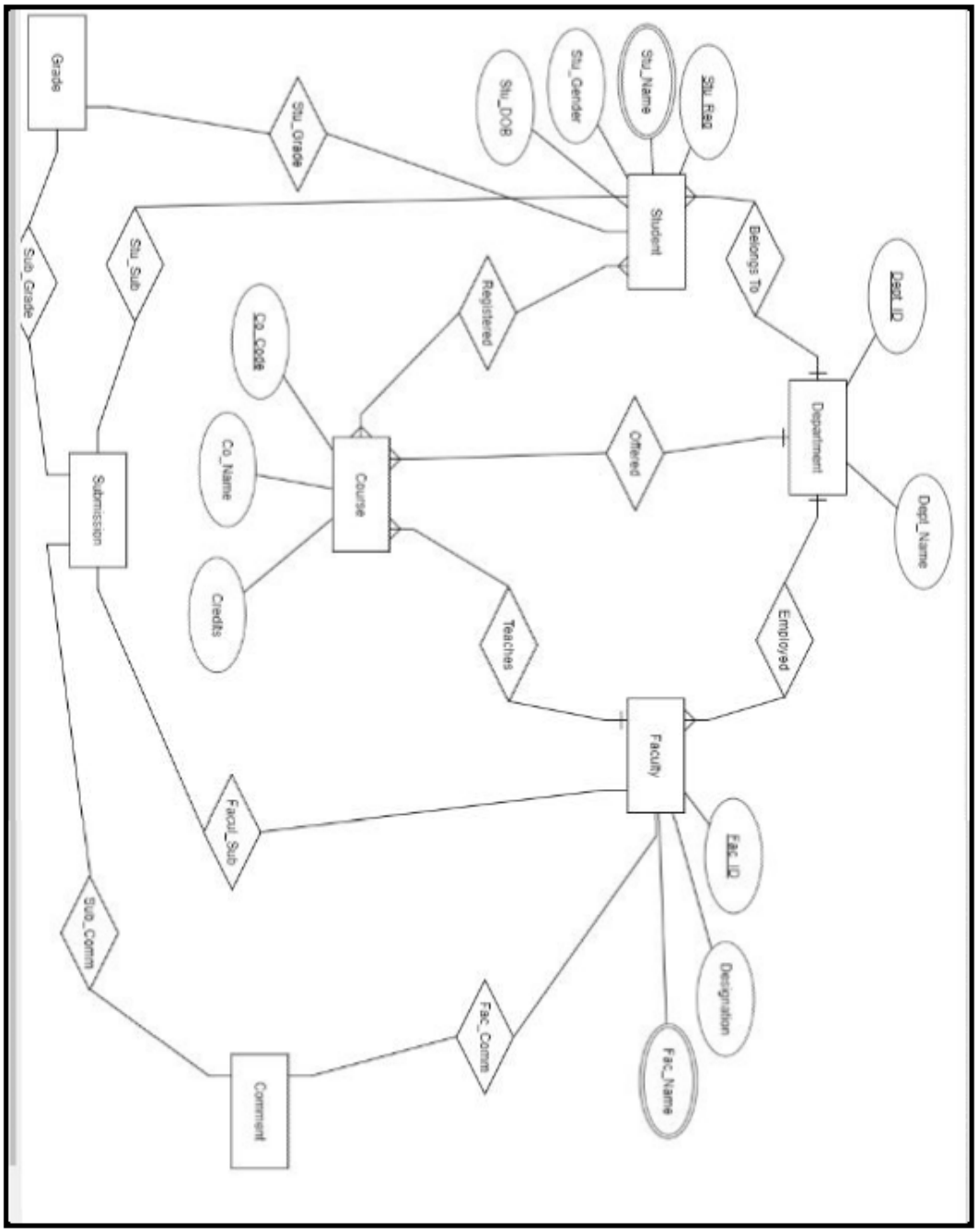
(2). A text editor(we used Sublime Text 3) to write the code



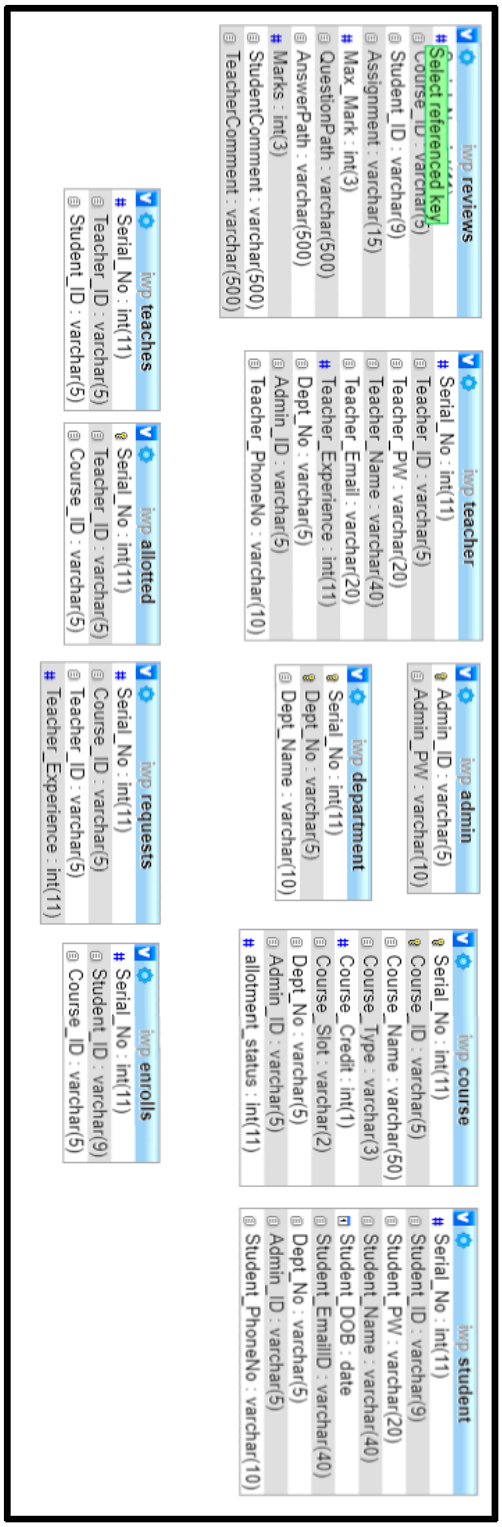
The text editor showing our code for the Login Page

2.2 Frameworks and Modules

2.2.1 ER Diagram

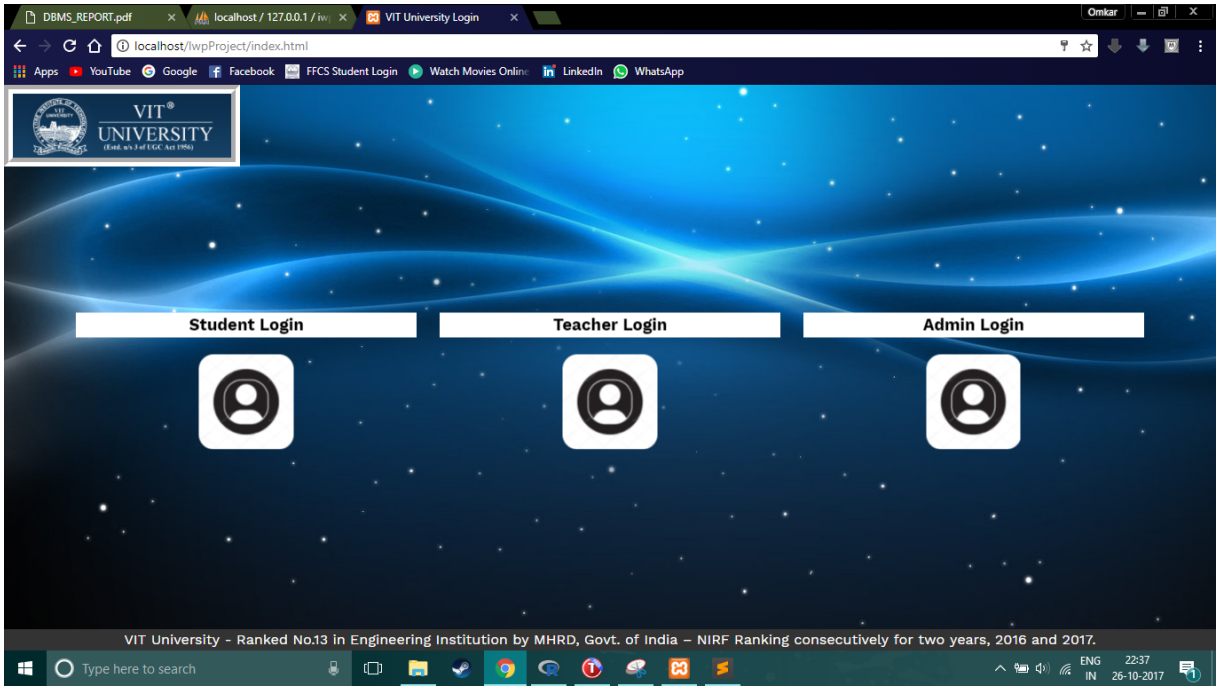


2.2.2 Relational Schema

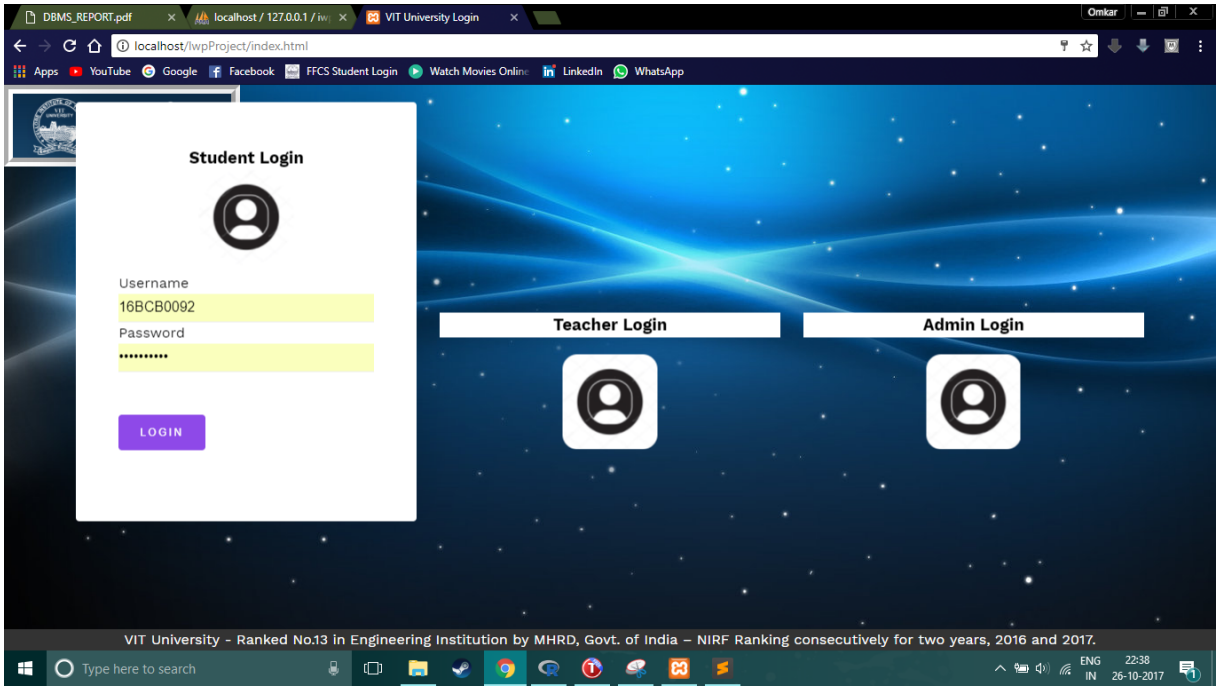


3. Implementation

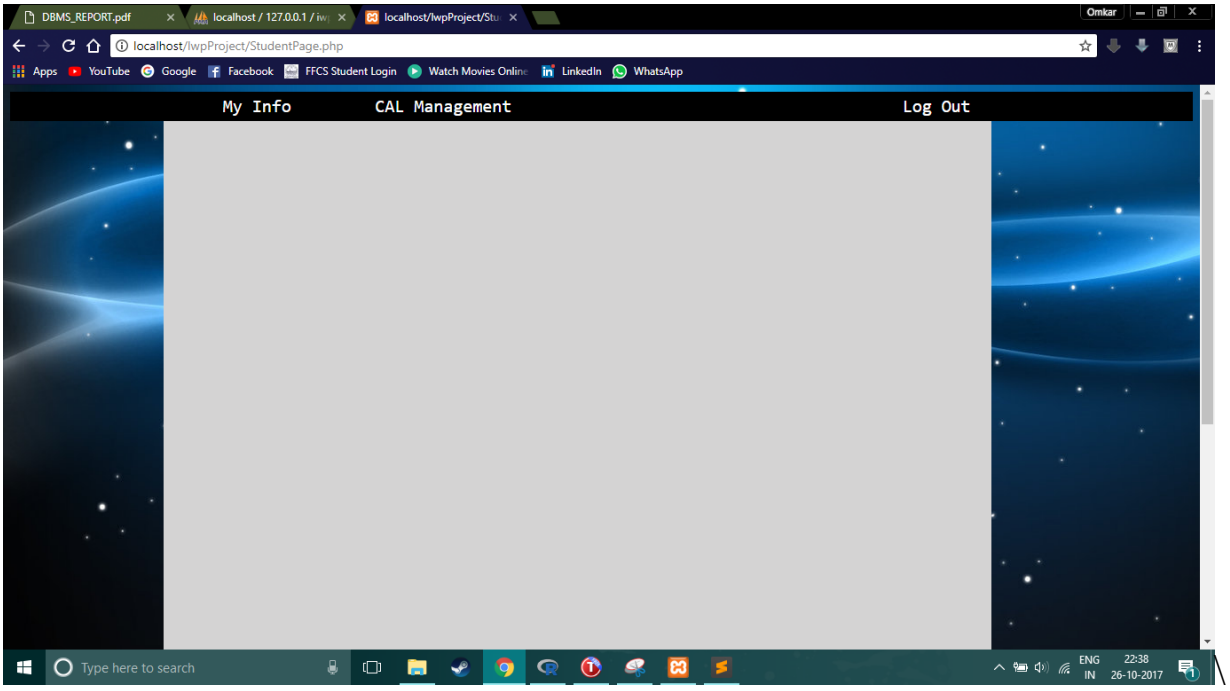
3.1 Results - Screenshots



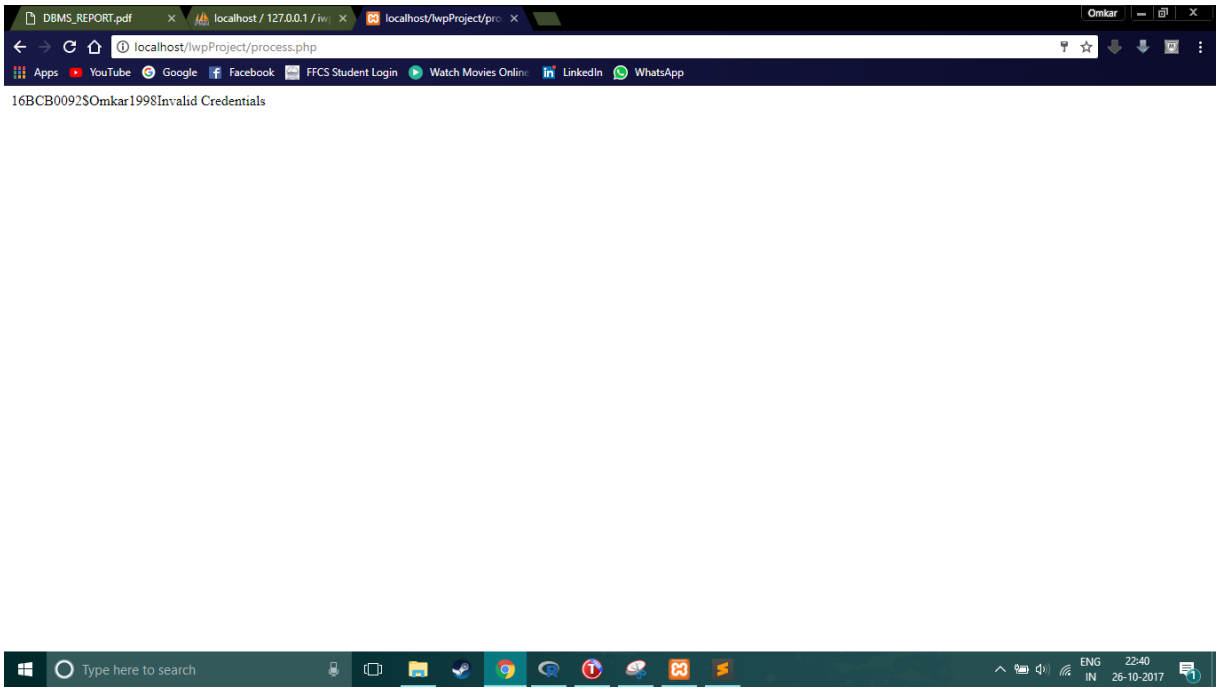
Login Page



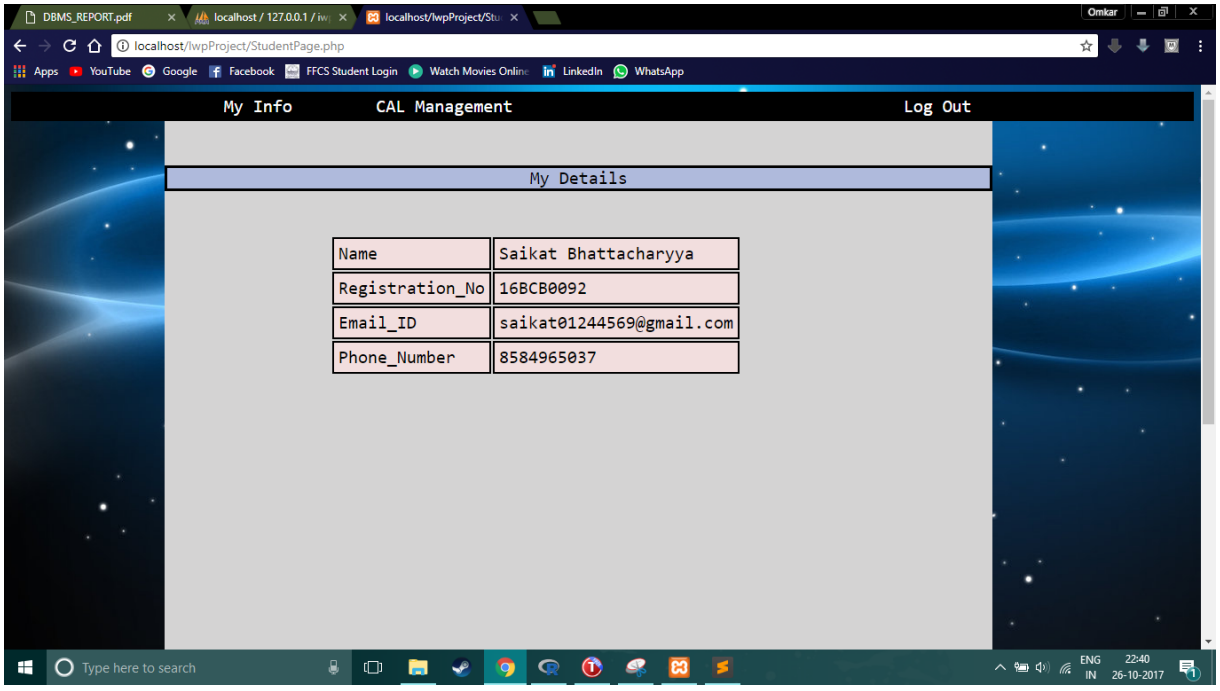
Login Page on clicking the widget



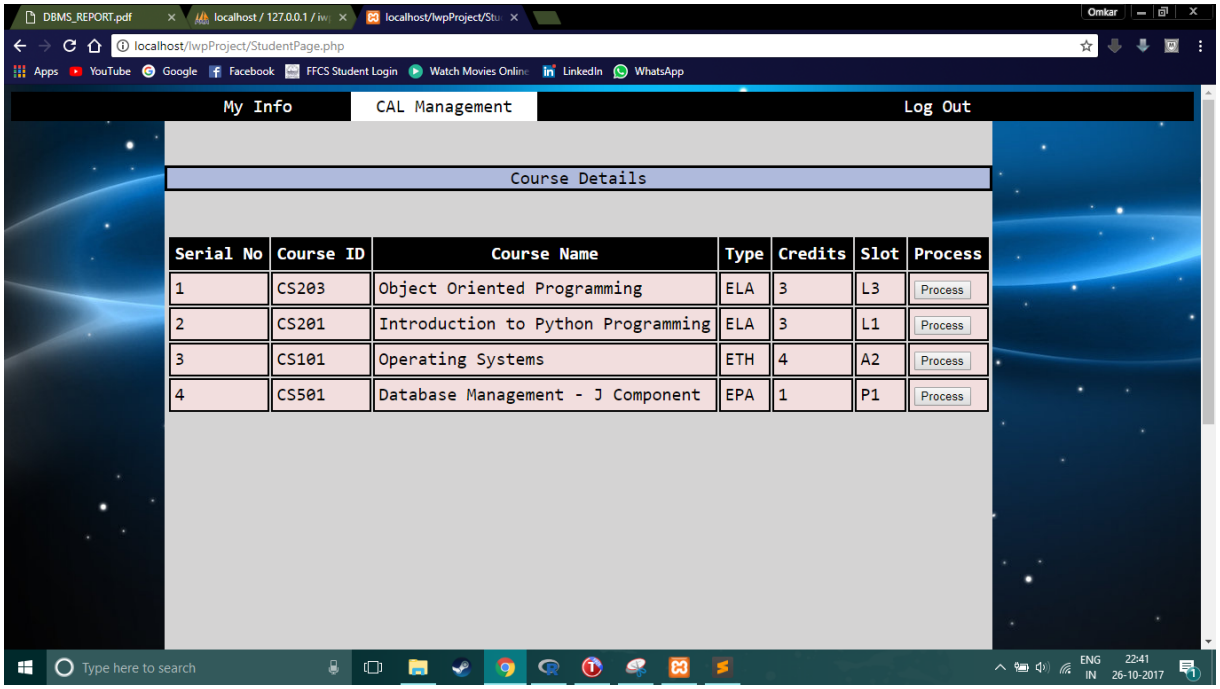
On entering Student Login - with right page



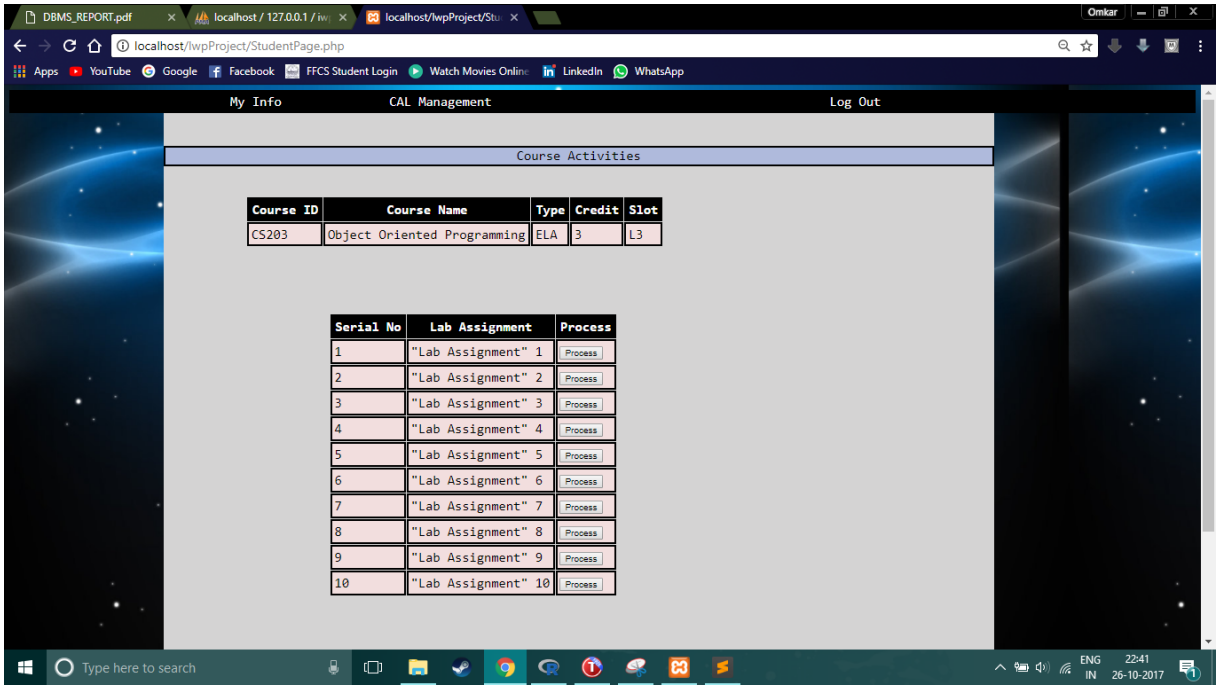
On entering wrong credentials



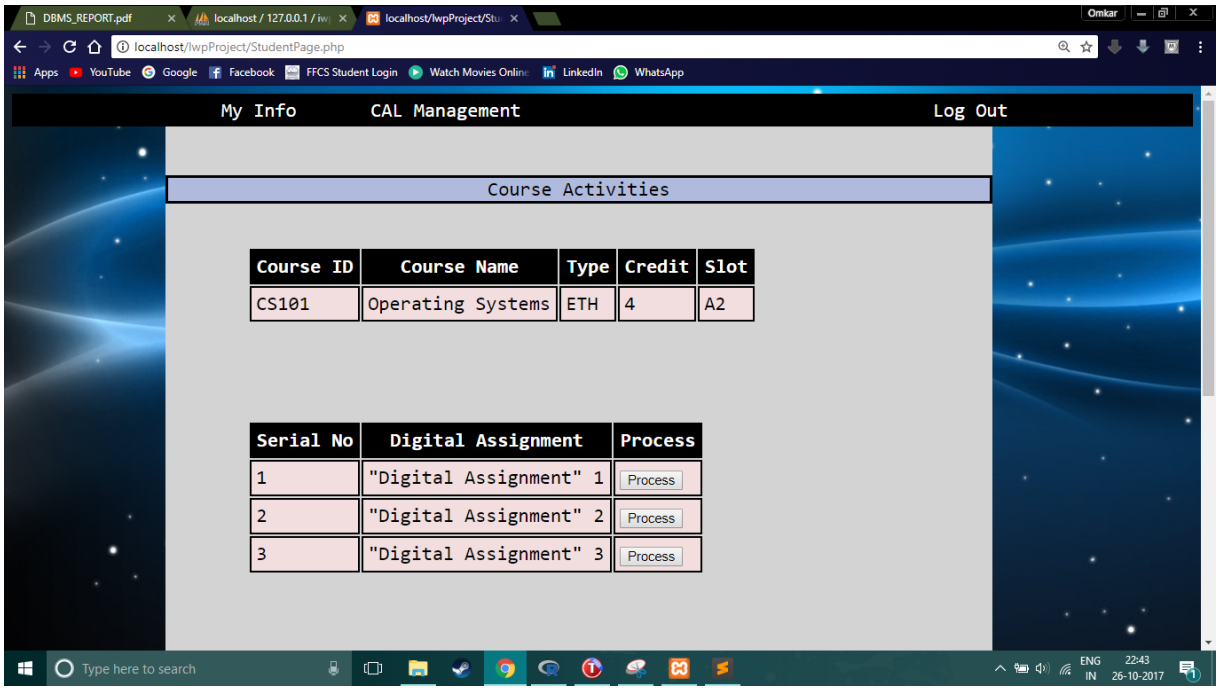
My Info Page



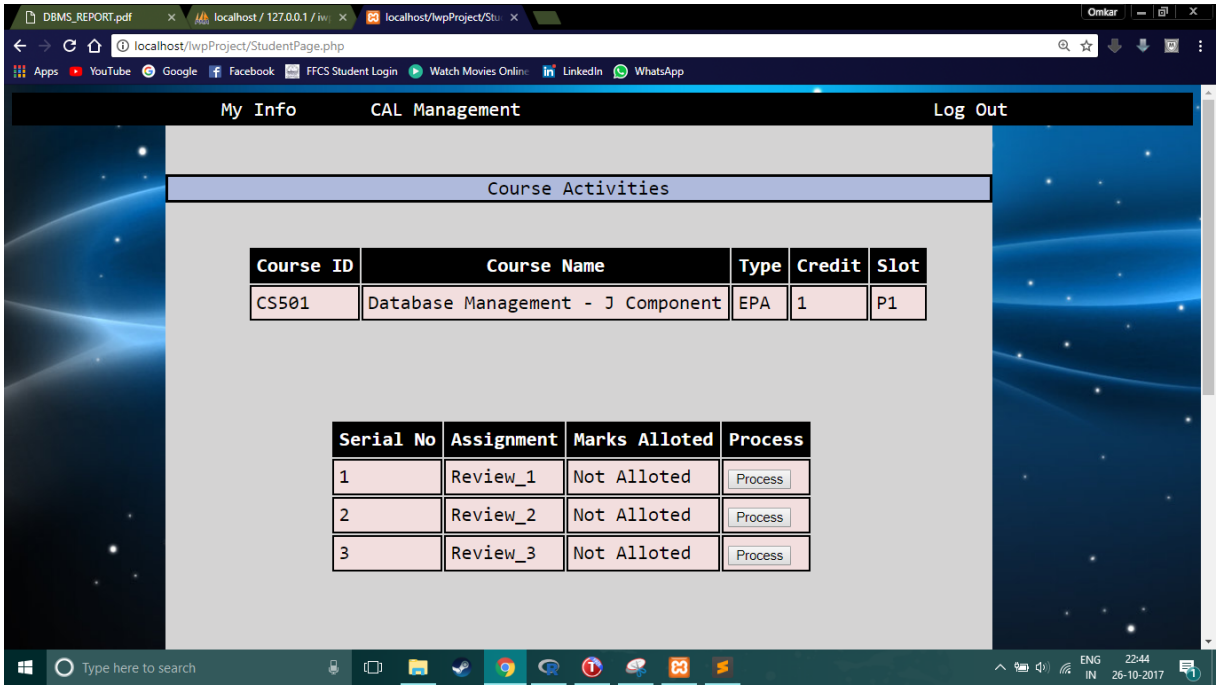
CAL Management Page



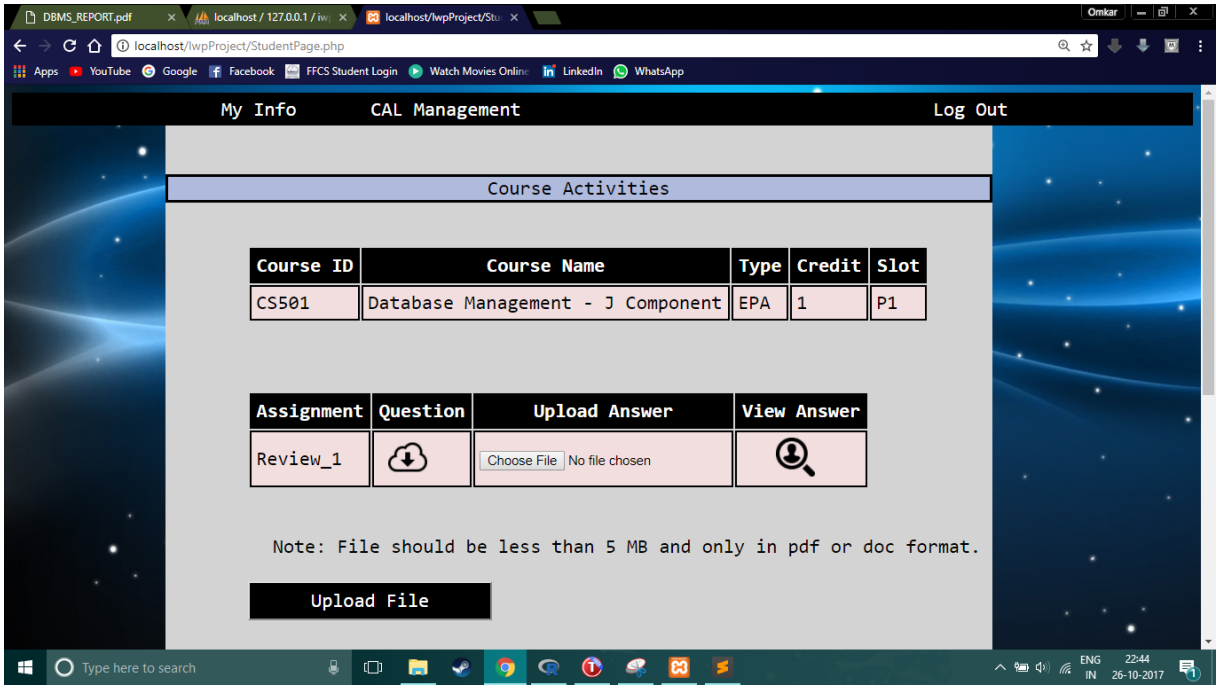
Lab Assignment Submission Page



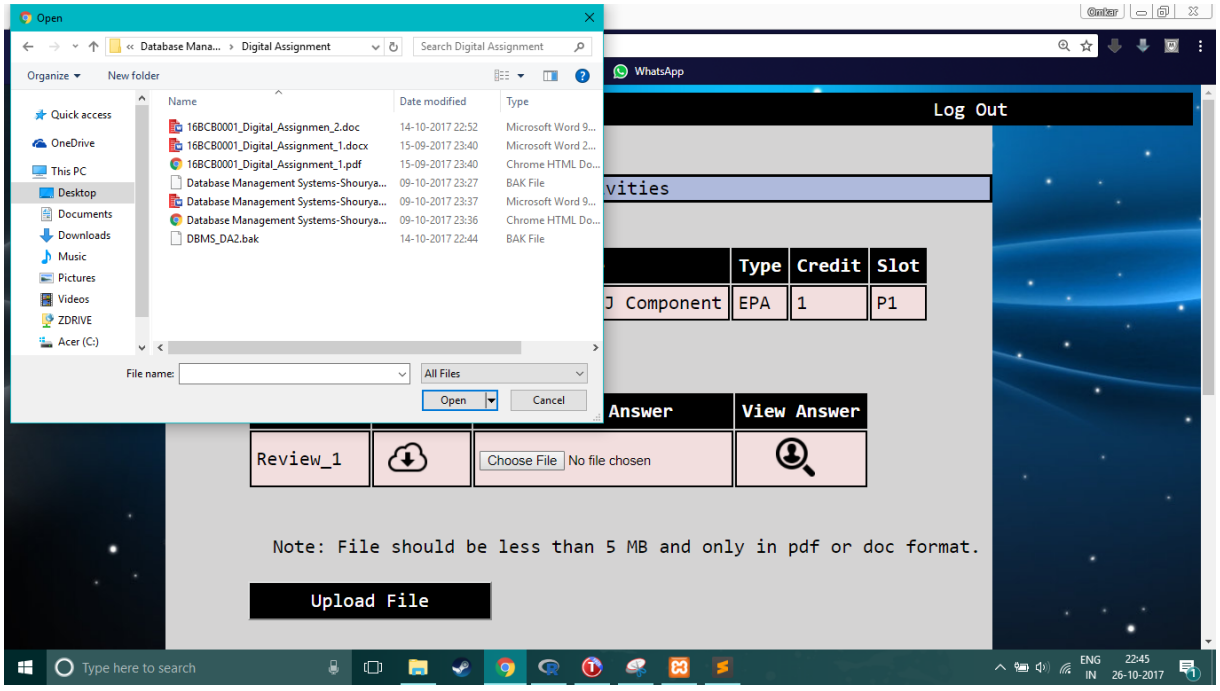
Theory Assignment Submission Page



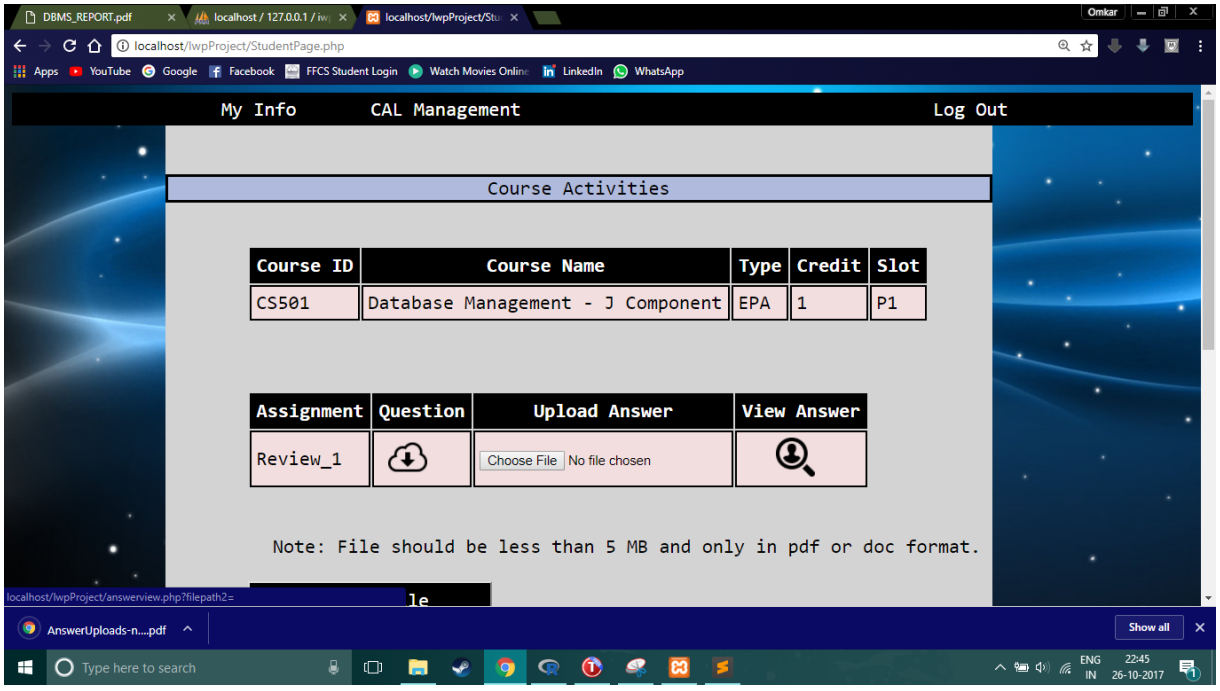
Project Assignment Submission Page



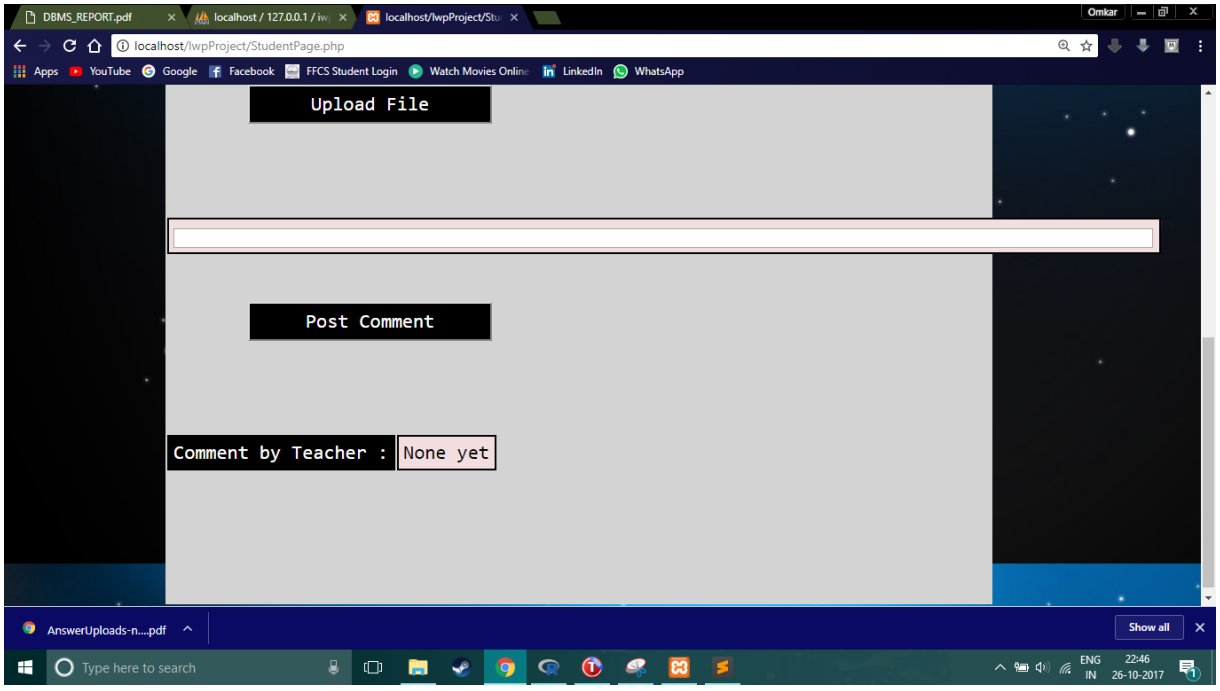
Review Assignment Submission Page



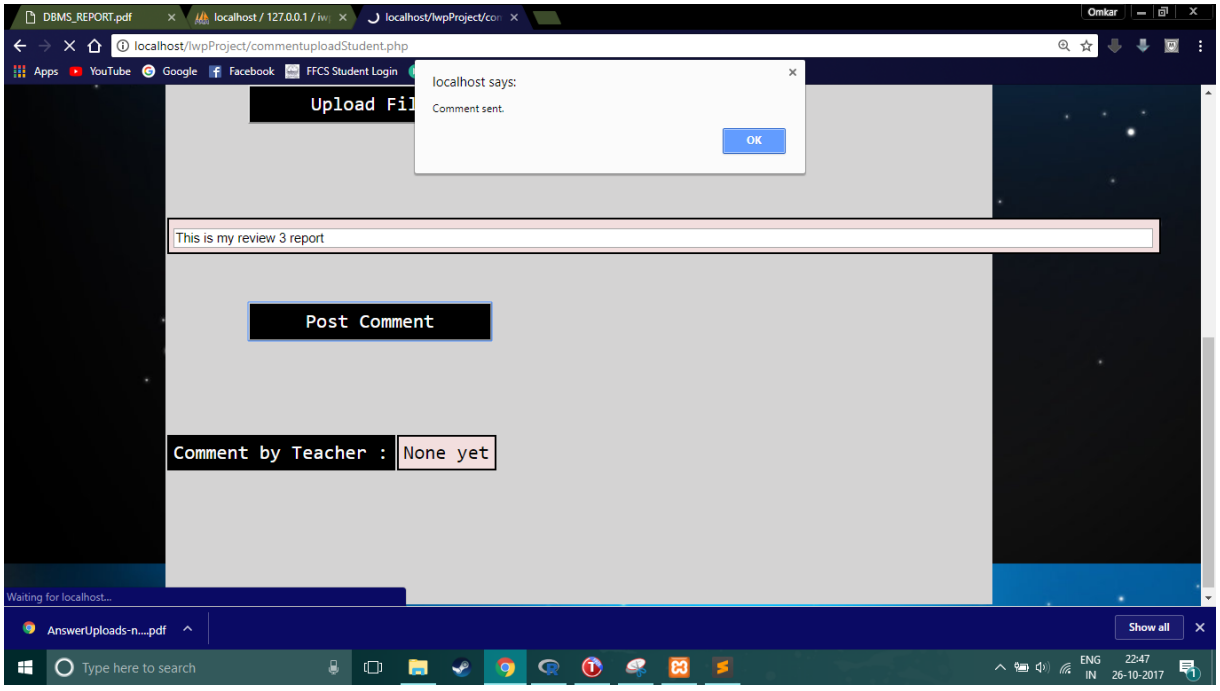
Submission of Answer Page



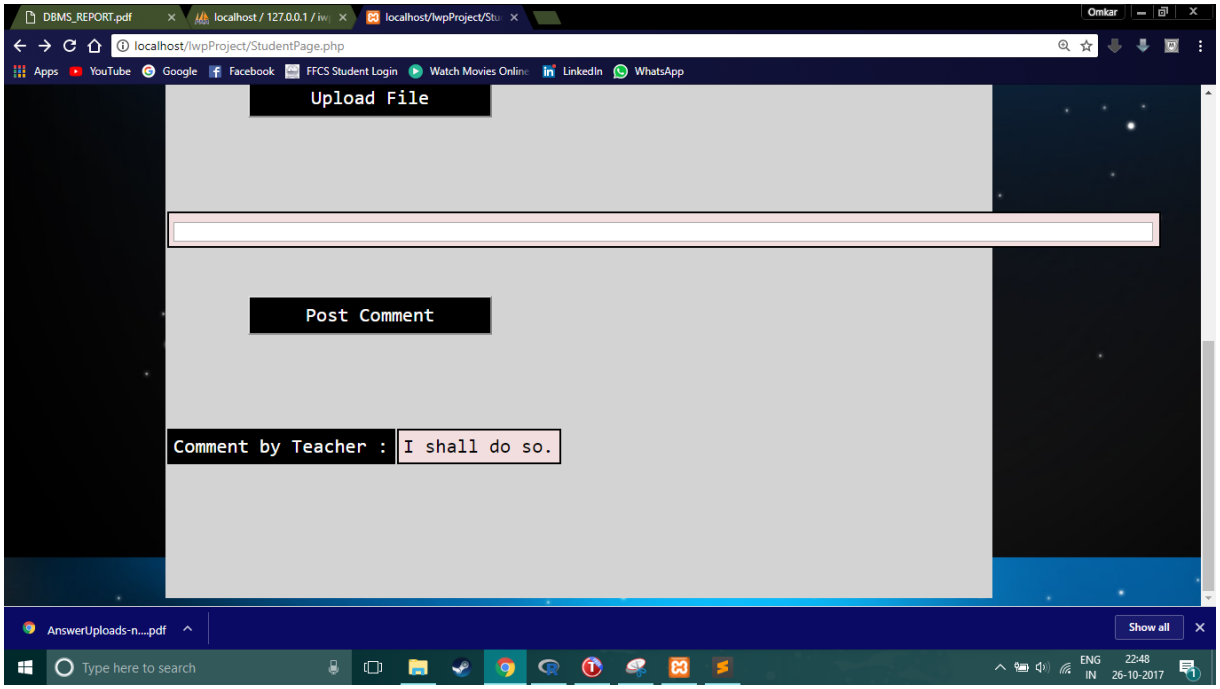
View Answer - Download at the bottom of the screen



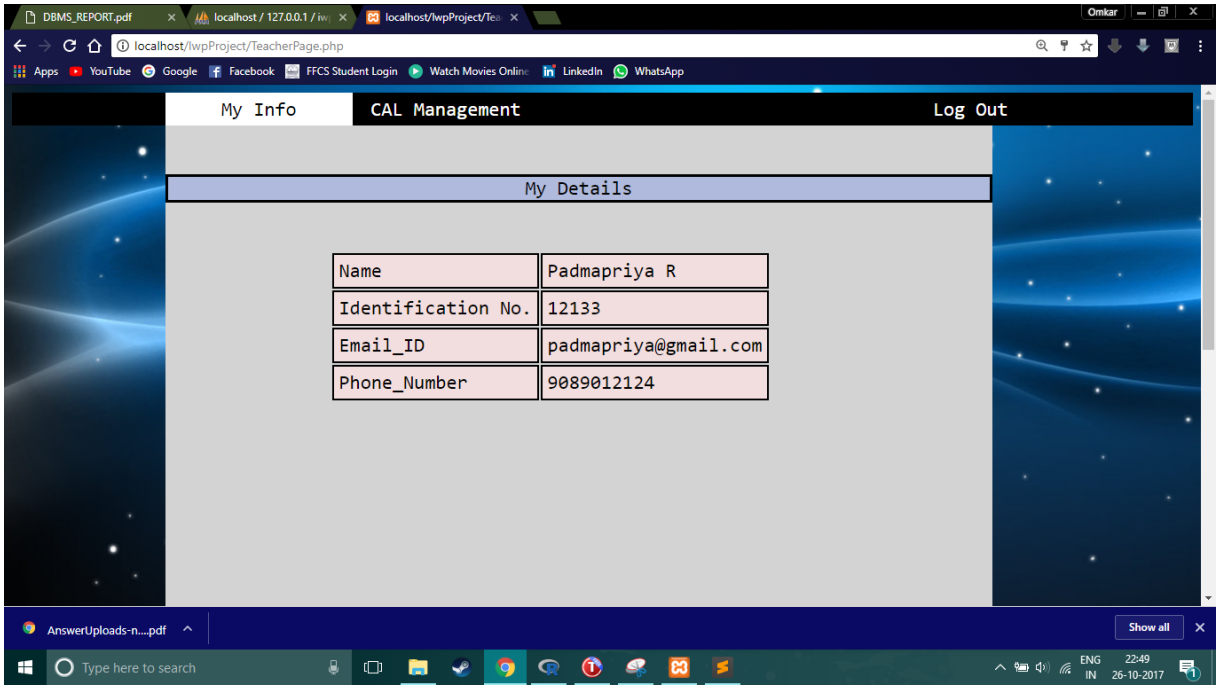
Comment Section



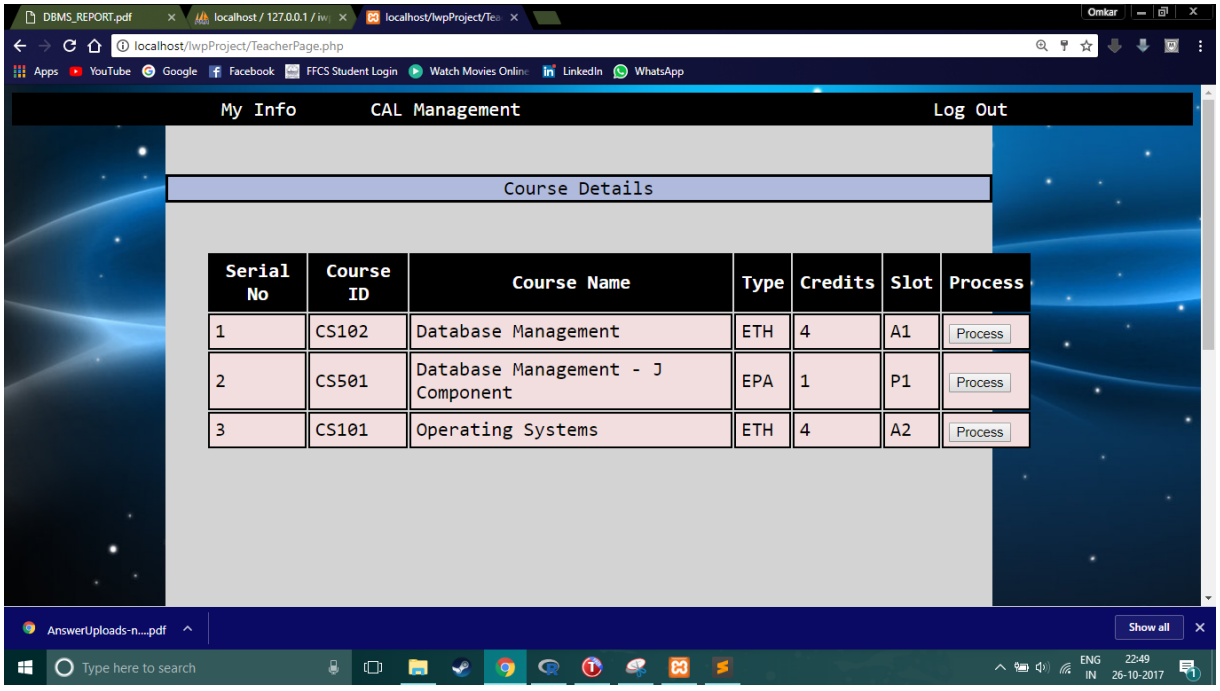
On submission of comment



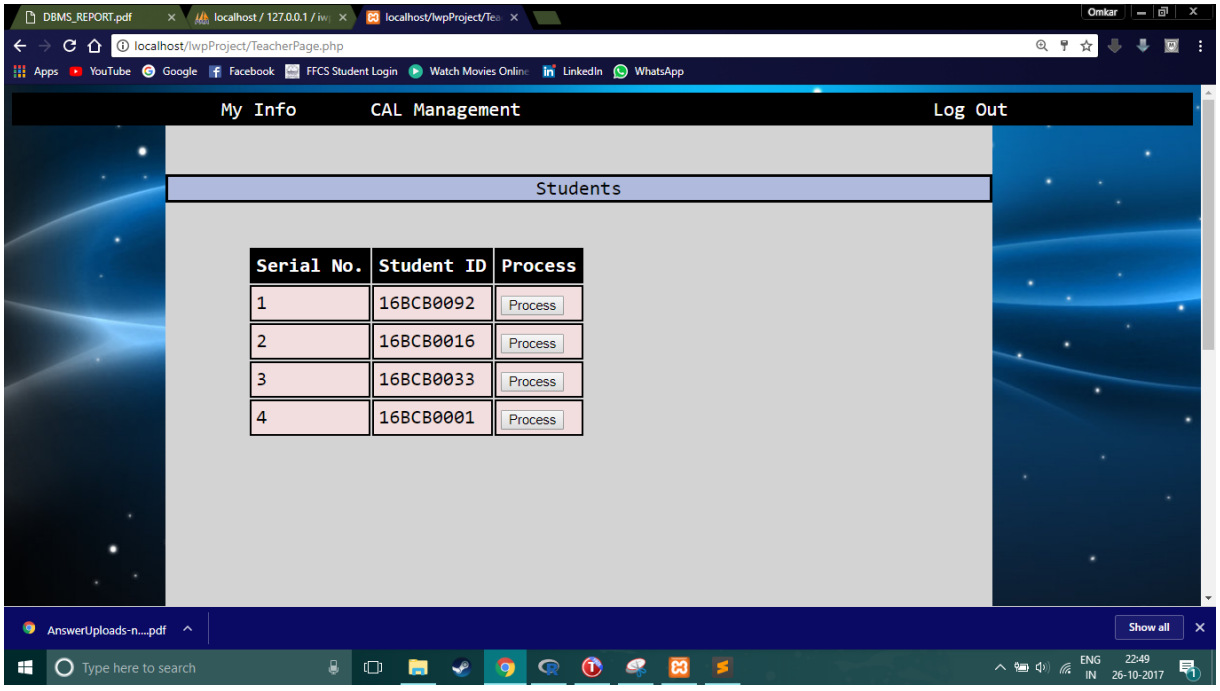
Response by the teacher



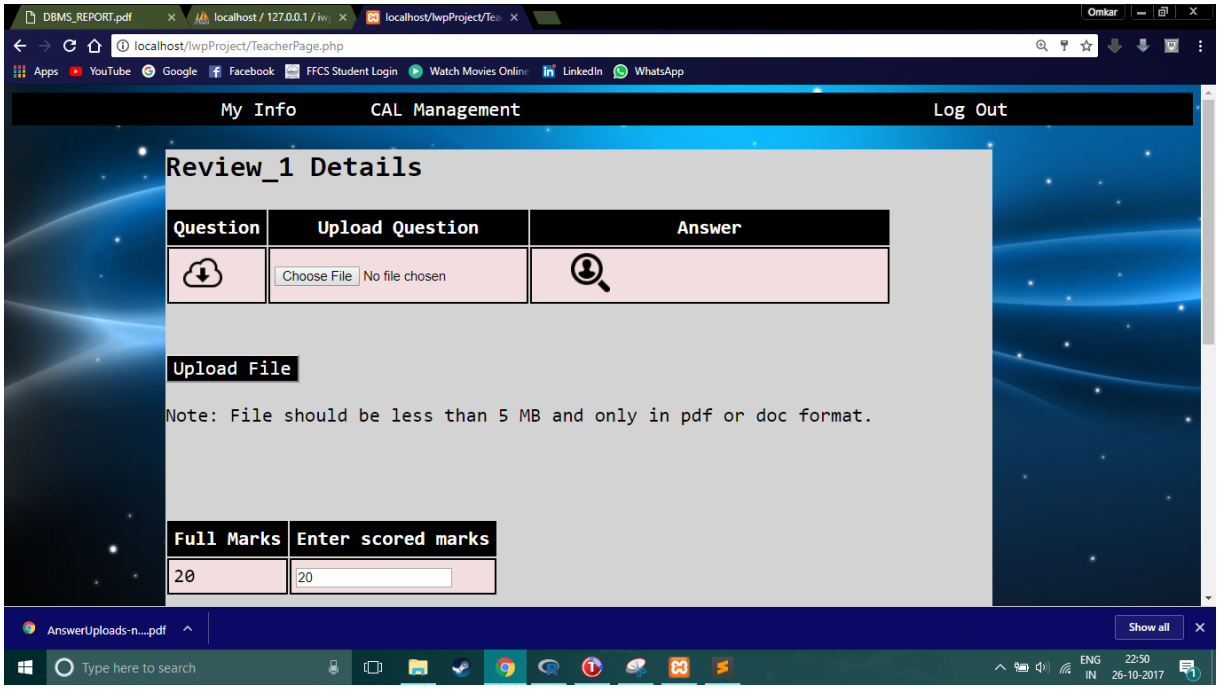
Teacher Info



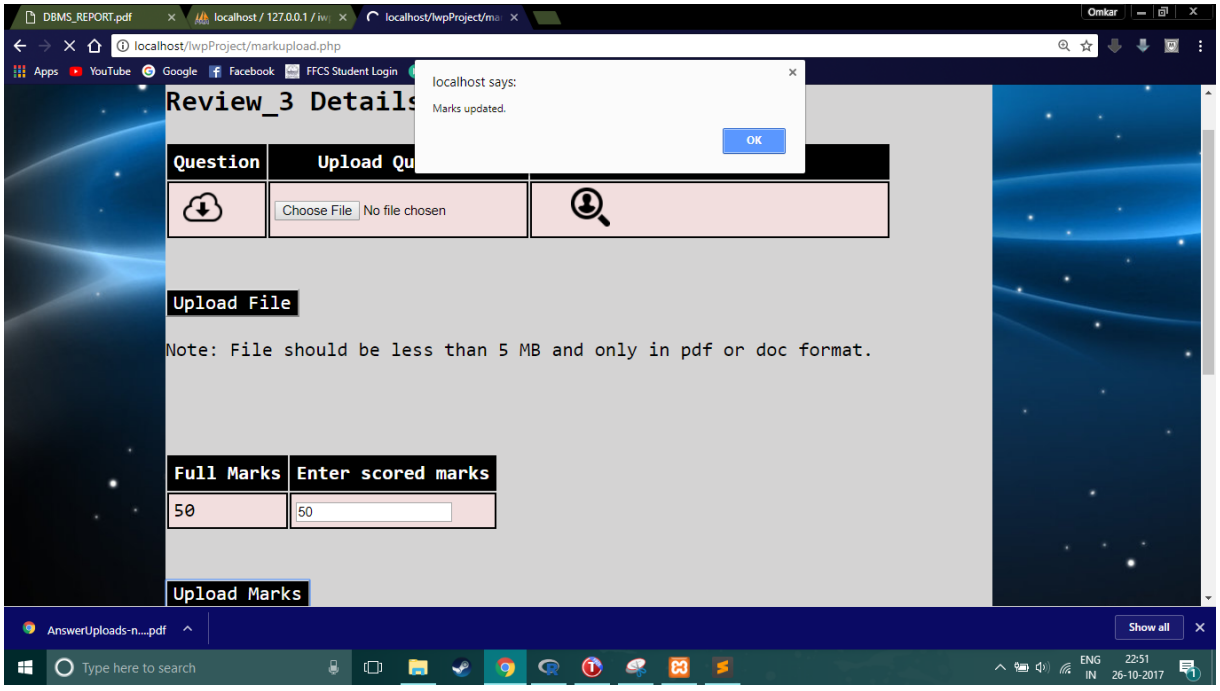
CAL Management Page



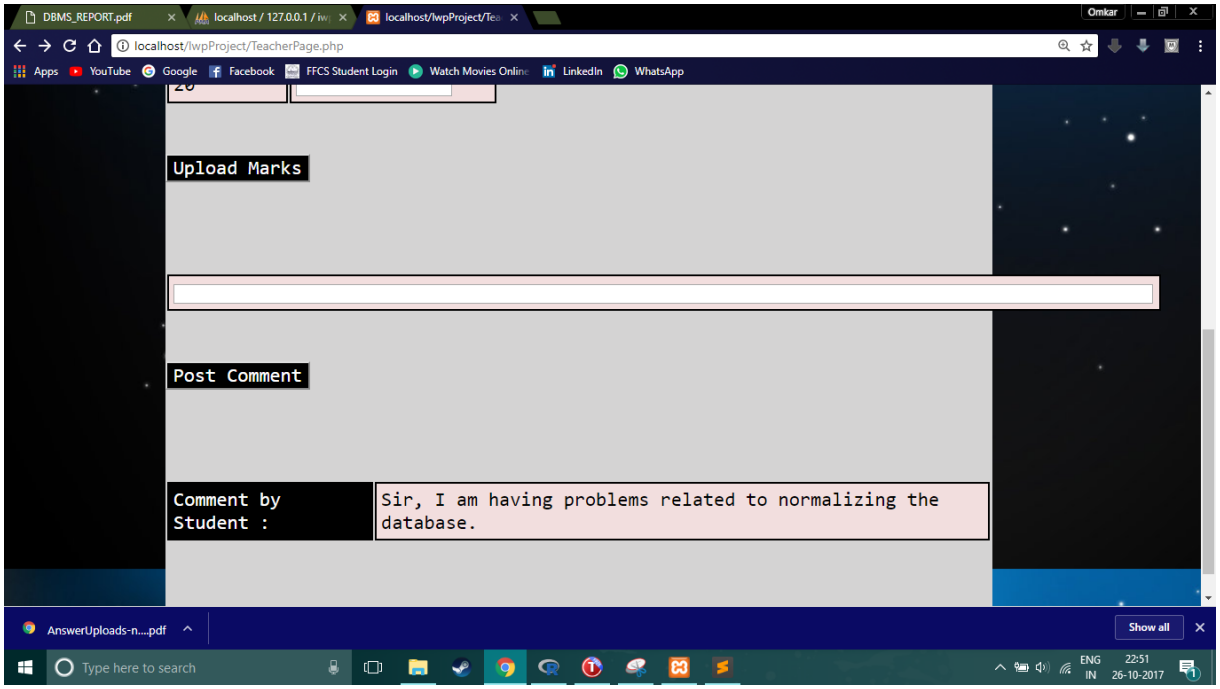
The students enrolled in the course page



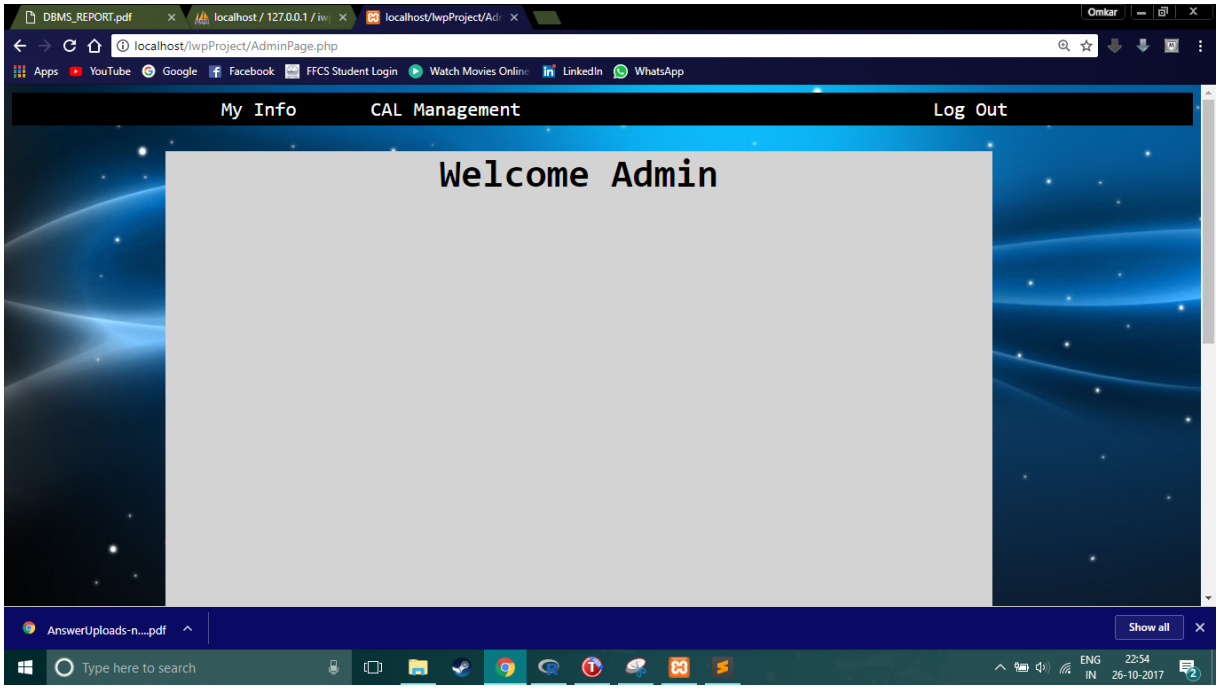
Marks and Document Viewing Page



On submission of marks



Viewing student comments



Admin Page Login

As our source code has 20+ files, we are not adding the full source code to this document as it will increase the size of the document and lead to further confusion.

4. Future Work

This project has reached its culmination but there can be a few more additions as we couldn't add a few things like the admi controls and timetable - a thing we wanted to do at first.

Also, we want to learn how to make websites beautiful - for which we need photoshop. Once we learn photoshop, I think we'll be able to make a site that will match if not beat, the present vtop.

Thank You.