KLE Society's

KLE Technological University

Open Ended Experiment Report

WEBERA

Team No: B23

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I.   PROBLEM STATEMENT

A website for your Web Technologies course. Create a website that provides course information, videos, and resource material.

- DOMAIN: LEARNING MANAGEMENT SYSTEM

- We need to create a web application for Web Technologies course.

- Students must get access to all the required material at one place.

- Admin (Faculty) should be able to provide all the required materials to the students using this WebApp.
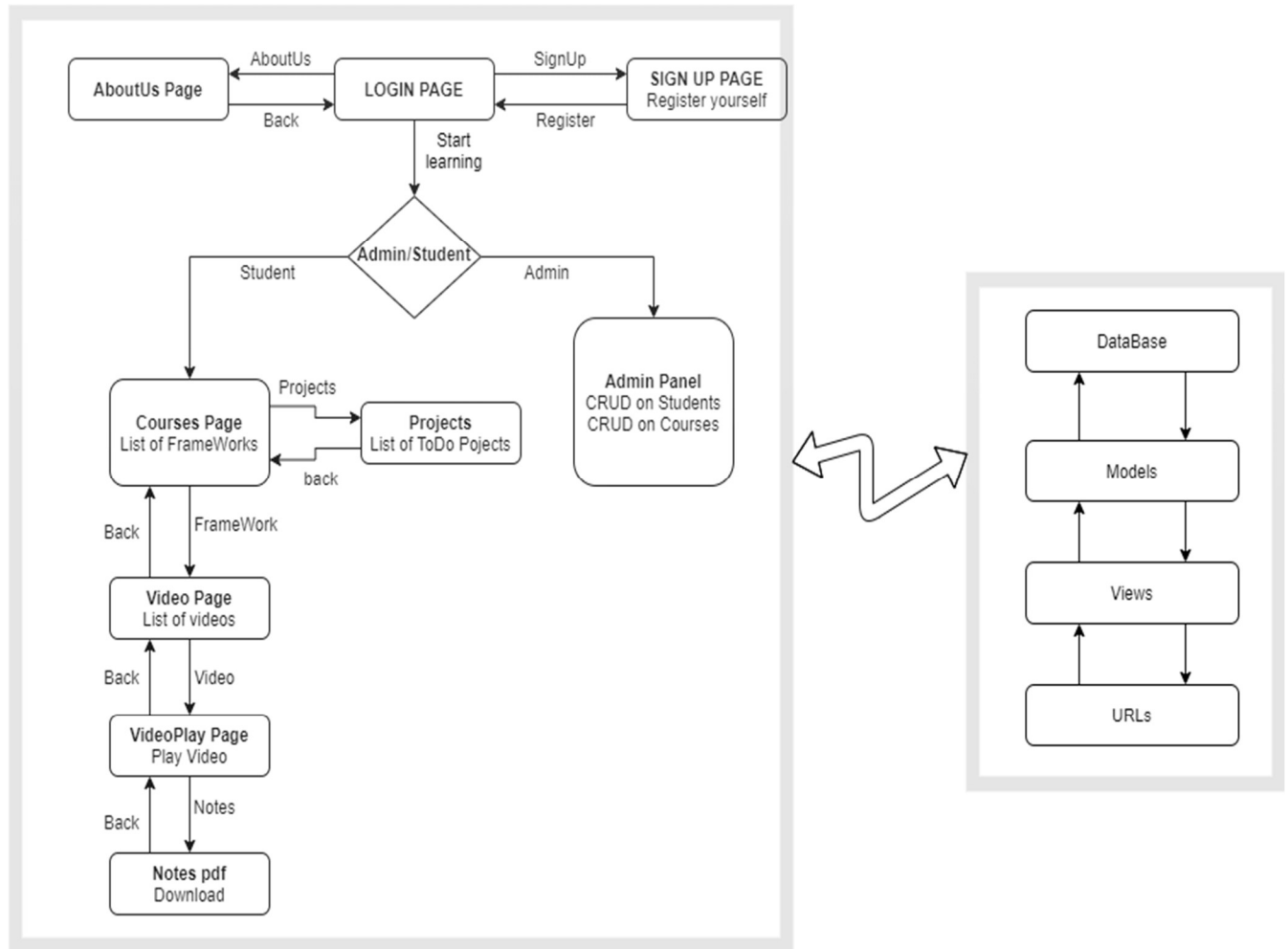

II.   APPROACH

The whole project was divided into set of modules and the modules were built independently and then clubbed to form a complete webapp.
The modules were:

- **Frontend HTML pages**: Basic HTML pages of the complete project were created, there was no CSS part included in this module.
- **Dynamic URL linking of the pages**: All the pages created for the frontend were dynamically linked to each other, using links we passed the required data for the next page to render.
- **Creating views and models**: Views contain the functions which will fetch/update the data from database and will pass the required data to the HTML pages to render the data, models are used to create tables for the database.
- **Adding CSS to the frontend:** The basic HTML pages which were created in the first module were given stylings and work on aesthetics of the pages was done.

Each team member worked on one module and then all the modules were clubbed to complete the project.

III. DESIGN
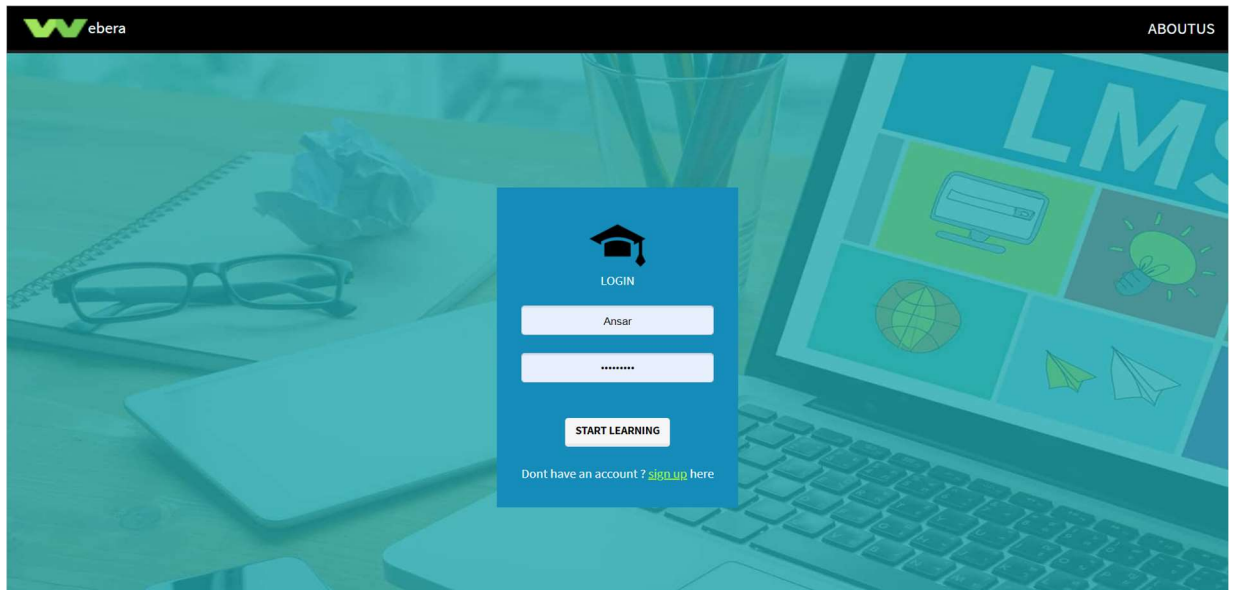

IV. FEATURES

STUDENT

- Student can register to WEBERA
- Student can login into his account
- Student can view videos, notes, To-do Projects
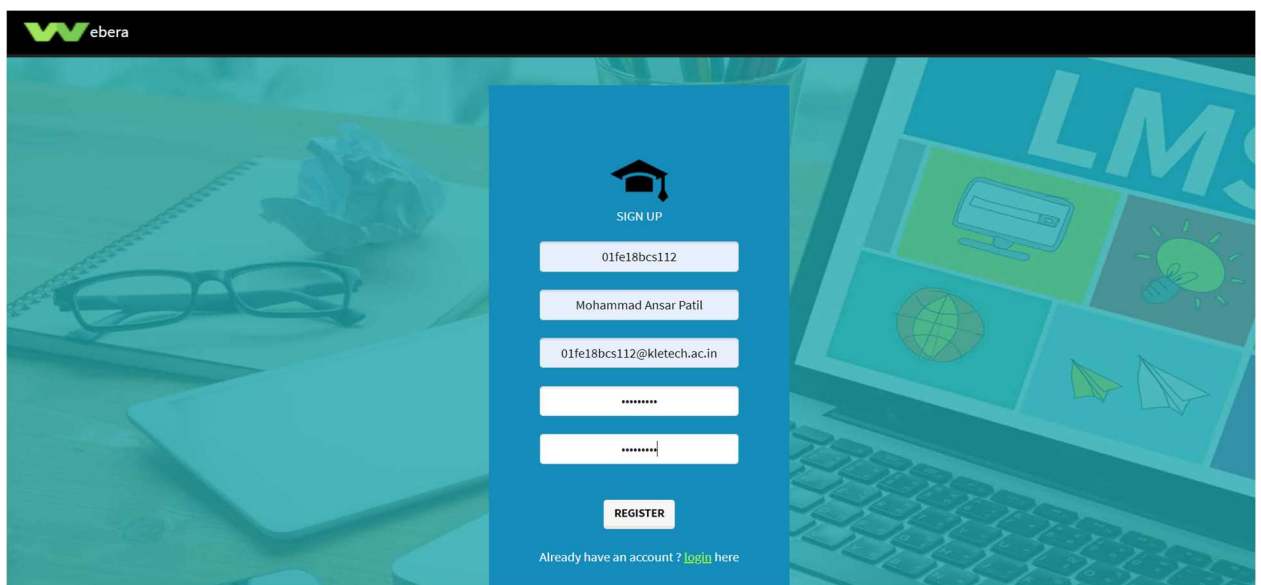- Student can download course material

ADMIN

- Admin can login using his credentials
- Admin can perform CRUD operations on students
- Admin can perform CRUD operations on courses

V. IMPLEMENTATION DETAILS

Login Page: From this page the student as well as the admin can login using his credientials. If the student is new to this portal, he/she can register to webera using Signup option. Everyone visiting webera can know about us using the AboutUs option in the navbar.

Signup Page: From this page the fresher student can create his account into webera by providing the details asked. The username must be compulsorily his USN and the password must contain minimum 6 character including a special character.

AboutUs Page: From this page the user visiting webera can know about the portal and also contact us using the details provided.
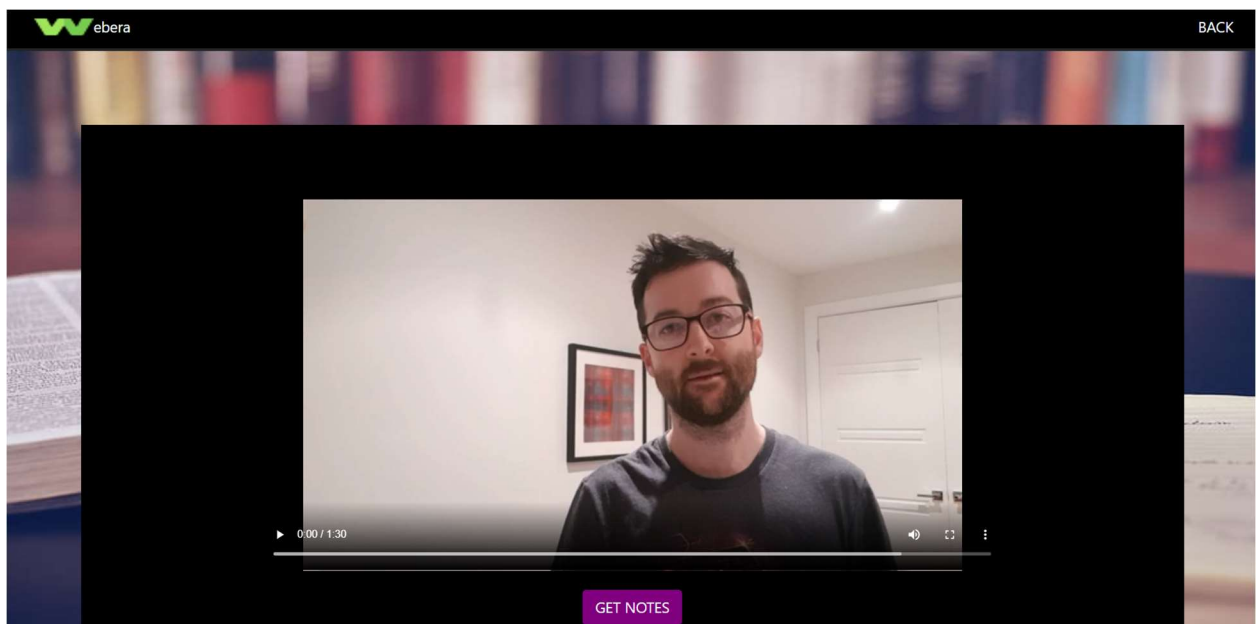

Courses Page: From this page the student can select the framework which he is willing to learn. He/she can also go to the projects tab from navbar and start working on any project provided in the list of ToDo projects. He can Logout from the portal using logout option from the navbar.

Video Page: From this page the student will get the list of videos uploaded by the admin to the framework which he/she has selected from the previous page.
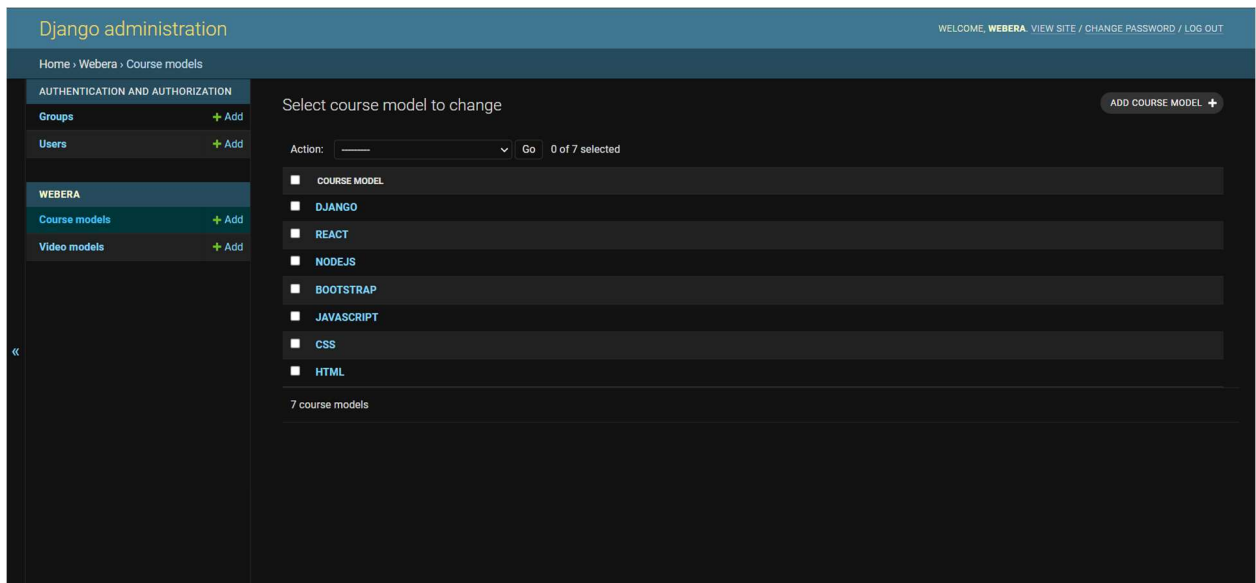

Videoplay Page: From this page the student will be able to view the video which he/she has selected from the list of videos from the previous page. Student can get the notes of that particular topics by just clicking the GET NOTES below the video being played.

Admin Panel: Using the admin panel the admin can perform the CRUD operations on the students details and also on the Course materials.

VI.   ADVANTAGES OF THE FRAMEWORK

- Django is a free open-source web application framework written in python.
- Django offers a big collection of modules which we can use in our projects.
- Django is scalable in nature and has ability to quickly and flexible to switch from small to large scale application.
- A Django admin panel is generated automatically from Python code.
- Django is compatible with major operating systems and databases.
- Django provides robust security features.
- As an open source and available for free online, Django is supported by active volunteers who constantly provide updates and resources on djangoproject.com and on GitHub.
- One of the nicest advantages of Django is that it can handle traffic and mobile app API usage of more than 400 million+ users helping maximize scalability and minimize web hosting costs

VII.   CONCLUSION AND FUTURE SCOPE

It was a great opportunity to work on such a project, where we got to learn and know more about some good technologies such as Django, node, Bootstrap, java script, html and CSS.

About to project webera, it is an application helpful for both and students and faculty to learn and teach in appropriate fashion and the scope for such an application will always remain high as we all have experienced in this pandemic the way of learning has taken online mode which is quite difficult to follow due to lots of issue such as improper bandwidth, health etc. Thus, adapting to application such as webera will be more beneficial for students who can access the content anywhere and anytime and can gain the knowledge.