E-Study

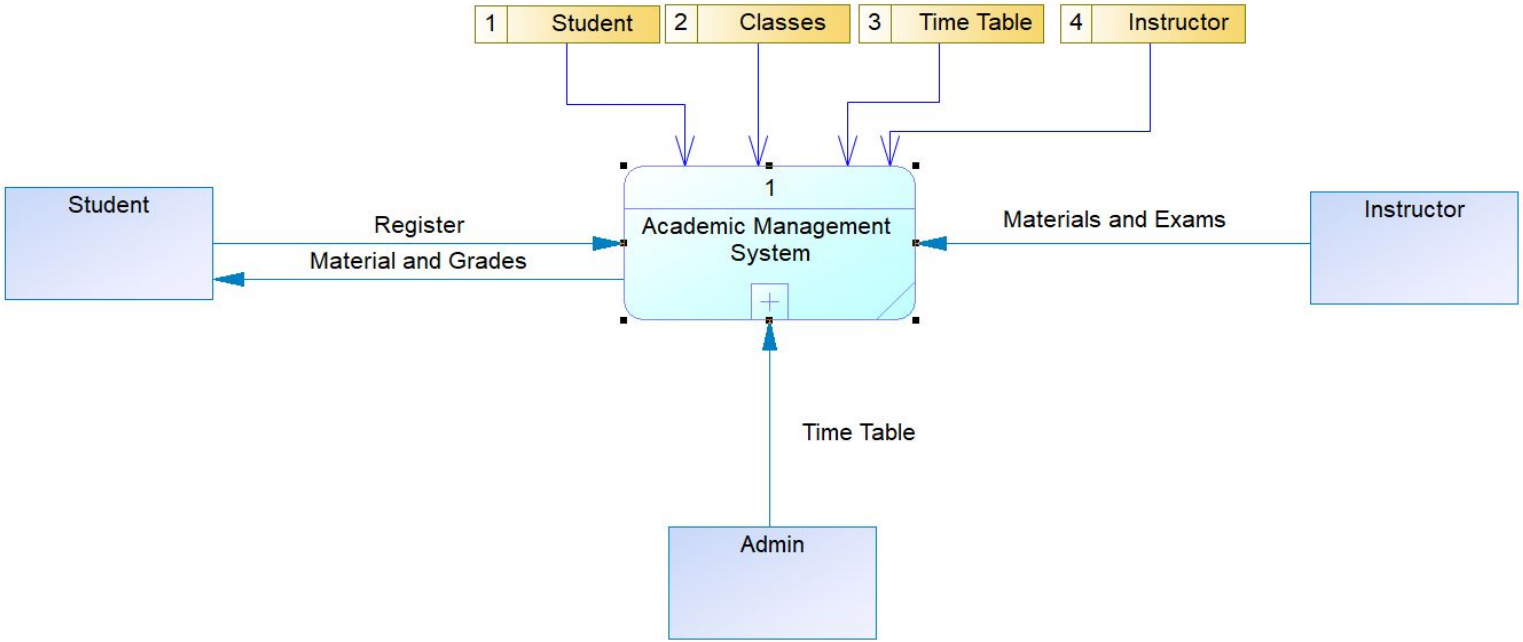
Academic Management System

Group 25

Mentor : Kalgi Ma’am

- 201901080 Tarun Boricha
- 201901087 Vivek Makwana
- 201901137 Karabhai Hun
- 201901152 Rameshkumar Kodiyatar
- 201901405 Charitya
- 201901431 Dhawal Katriya

Context Diagram



Functionalities (User Stories)

1. Sign Up /Sign In :
Student/Professor/Admin can register to application to use functionality.All users have a unique username and password to sign up. It provides functionality to change password. If user forgets the password then the user can update it by contacting the admin.

2. Registrations :
Student can register to provided courses in particular semester. there are some core course and it is compulsory for student to register.Student can change course till some time of period after register a course.

3. Result :
Student can see there result in application of each semester. Instructor can change/insert grade in student's result.

4. Examination :
Admin can upload timetable of examinations so all students can check timetable of examinations easily.

5. Timetable :
Admin will provide lecture ,exam and lab timetable to student so there are check it and if there are find any difficulty then there are also mail to admin and he do some changes and again send to student.

6. Attendance :
Students can check their attendance of each core courses. Attendance of each students automatic mark in their profile.

7. Profile :
Students, Admin and Professors they all have their own profile with all kinds information like Contact Number, Email ID , addresses of home and they all can edit their information easily.

Functionalities (User Stories)

8. Committees/Clubs :

An institute can have different clubs /committee. Student can apply for to join committee. Admin can add or remove a particular committee.

9. Library :

Students can check anytime which books are available now and they can access available book. Students can check last date for return book.

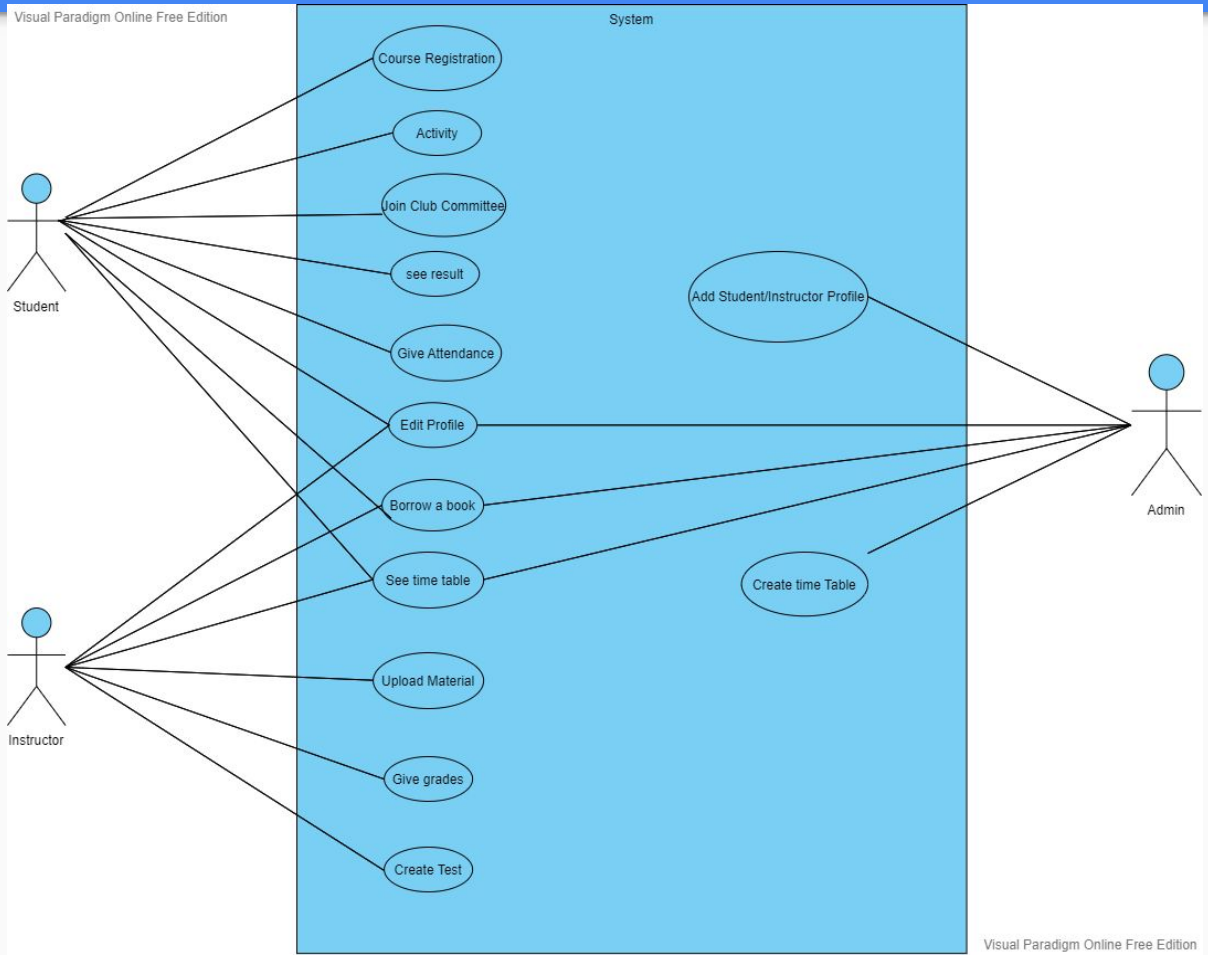
10. Study Material :

Professors can upload all kinds of material in pdf or word format. Students can download anytime it easily from application.

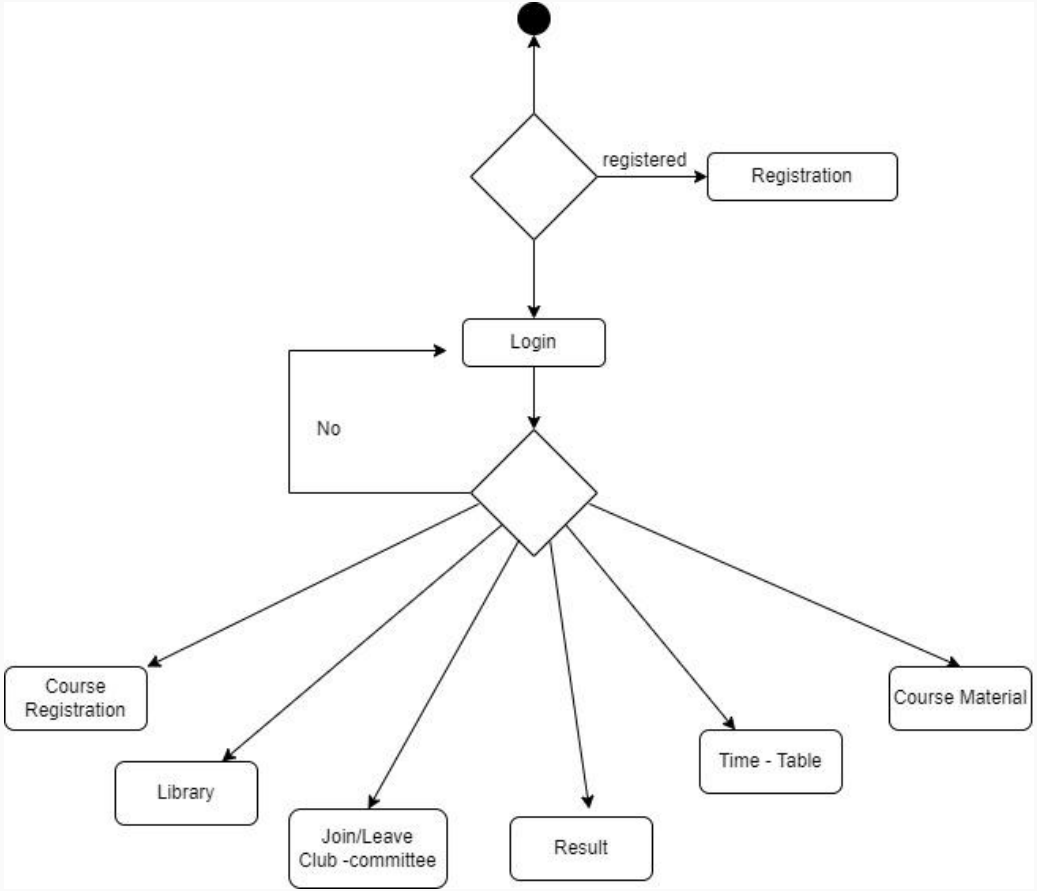
11. Help :

If any students need help of academic program or any other help from any professors so all kind of help provided by admin or professors.

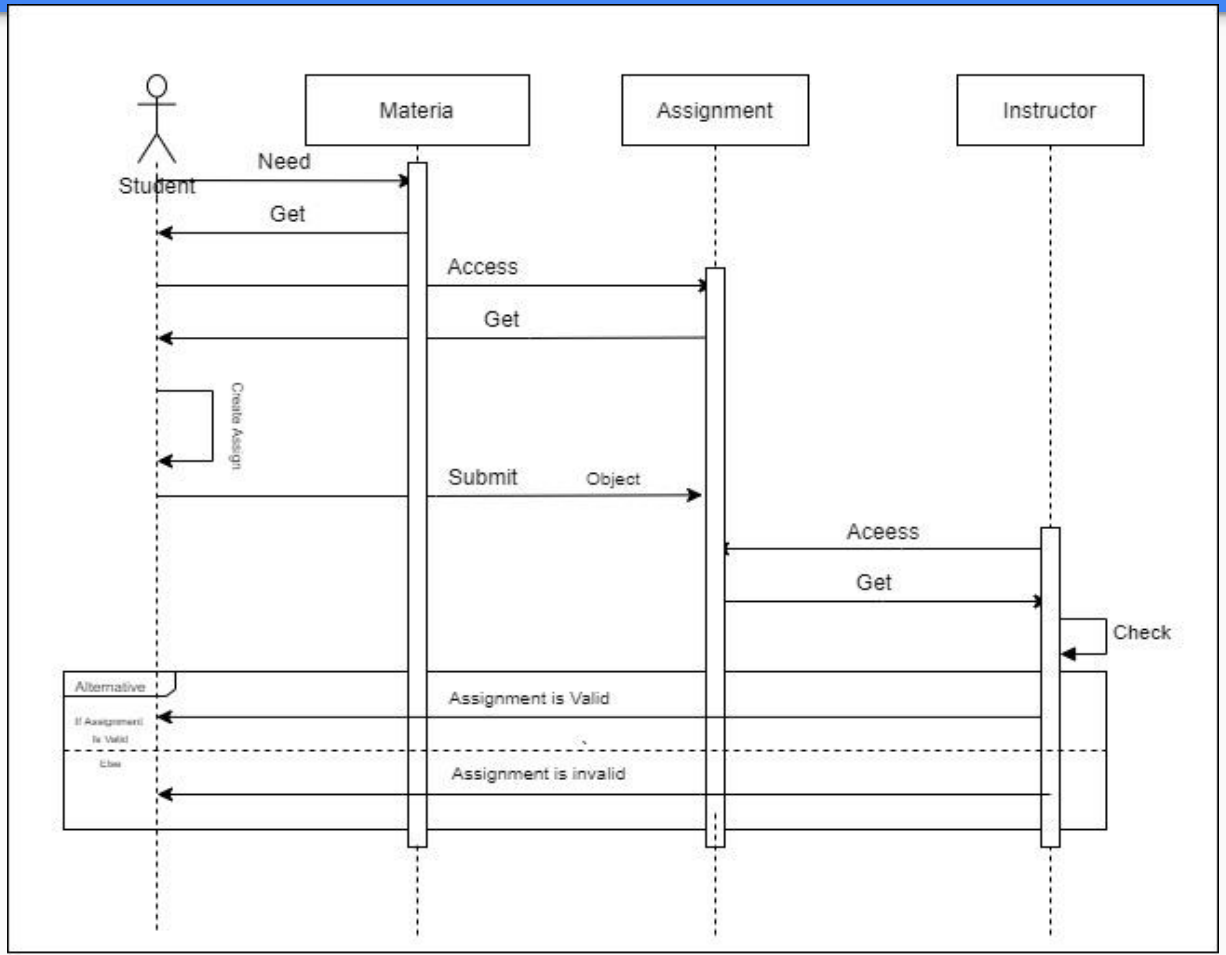
Top Level Use Case Model



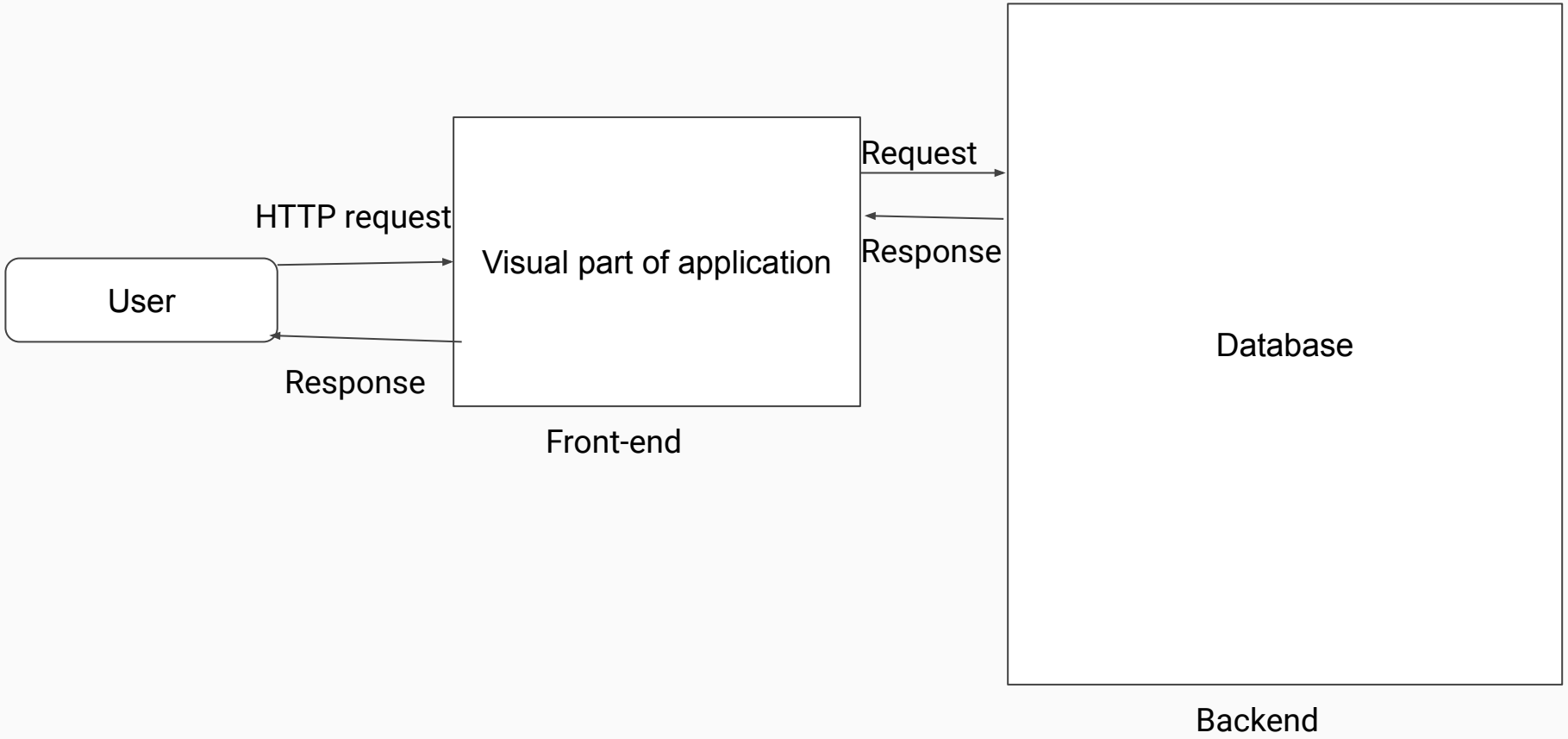
Activity Diagram



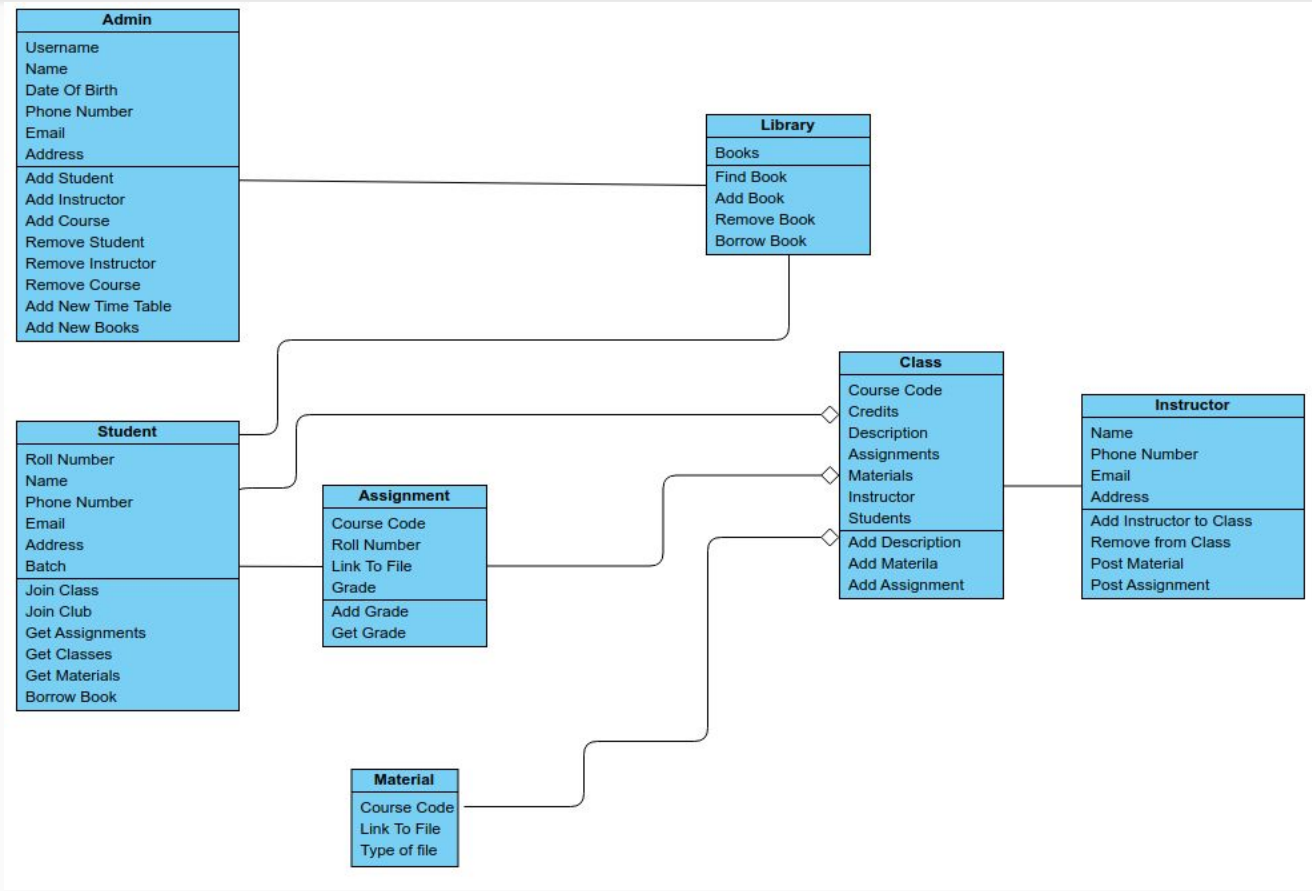
Sequence Diagram



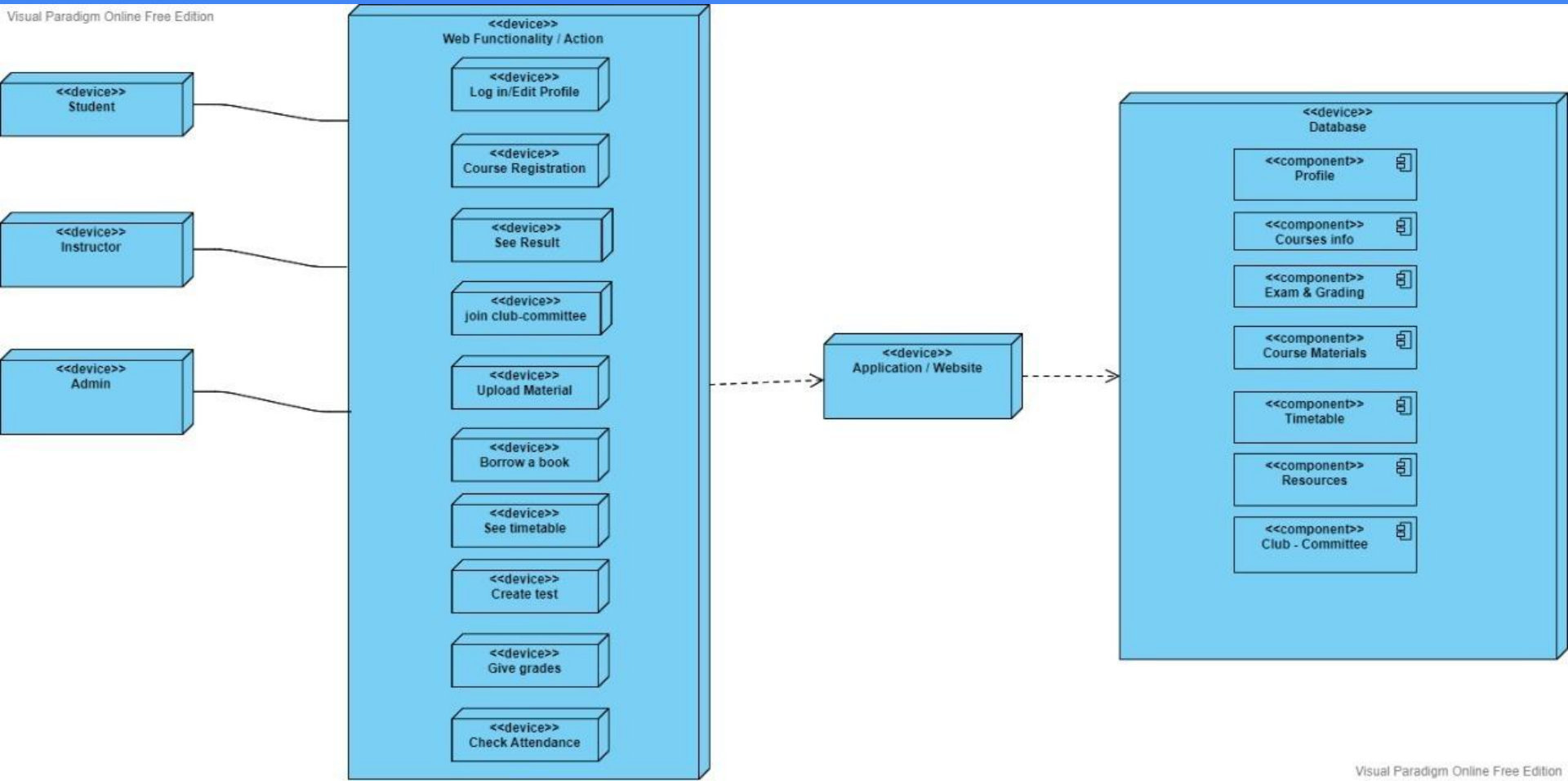
Application Architecture



Detailed Class Diagram



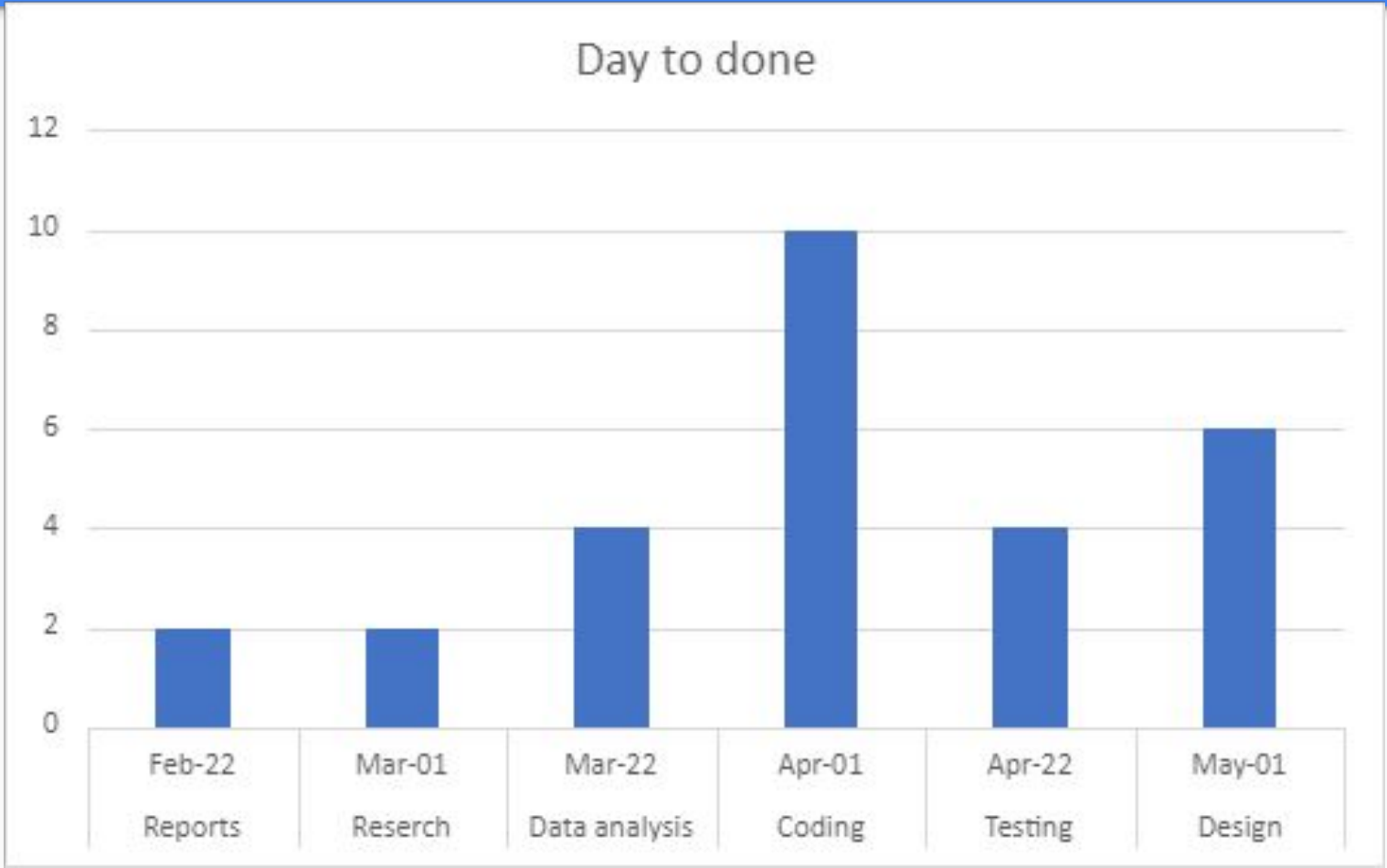
Deployment Diagram



Contribution Details

ID - Name	Contribution
201901080 Tarun Boricha	Documentation, Research
201901087 Vivek Makwana	Front-end, Research
201901137 Karabhai Hun	Research,Front-end
201901152 Rameshkumar Kodiyatar	Research,Documentation
201901405 Charitya	Documation, Full-stack
201901431 Dhawal Katriya	Backend, Research

Gantt Chart for entire project



Technologies / Tools and Libraries

Programming Technologies

- React - Library to create interactive user interfaces.
- Bootstrap - A CSS styling library.
- PostgreSQL - An SQL database
- Django - A Batteries included web framework for python

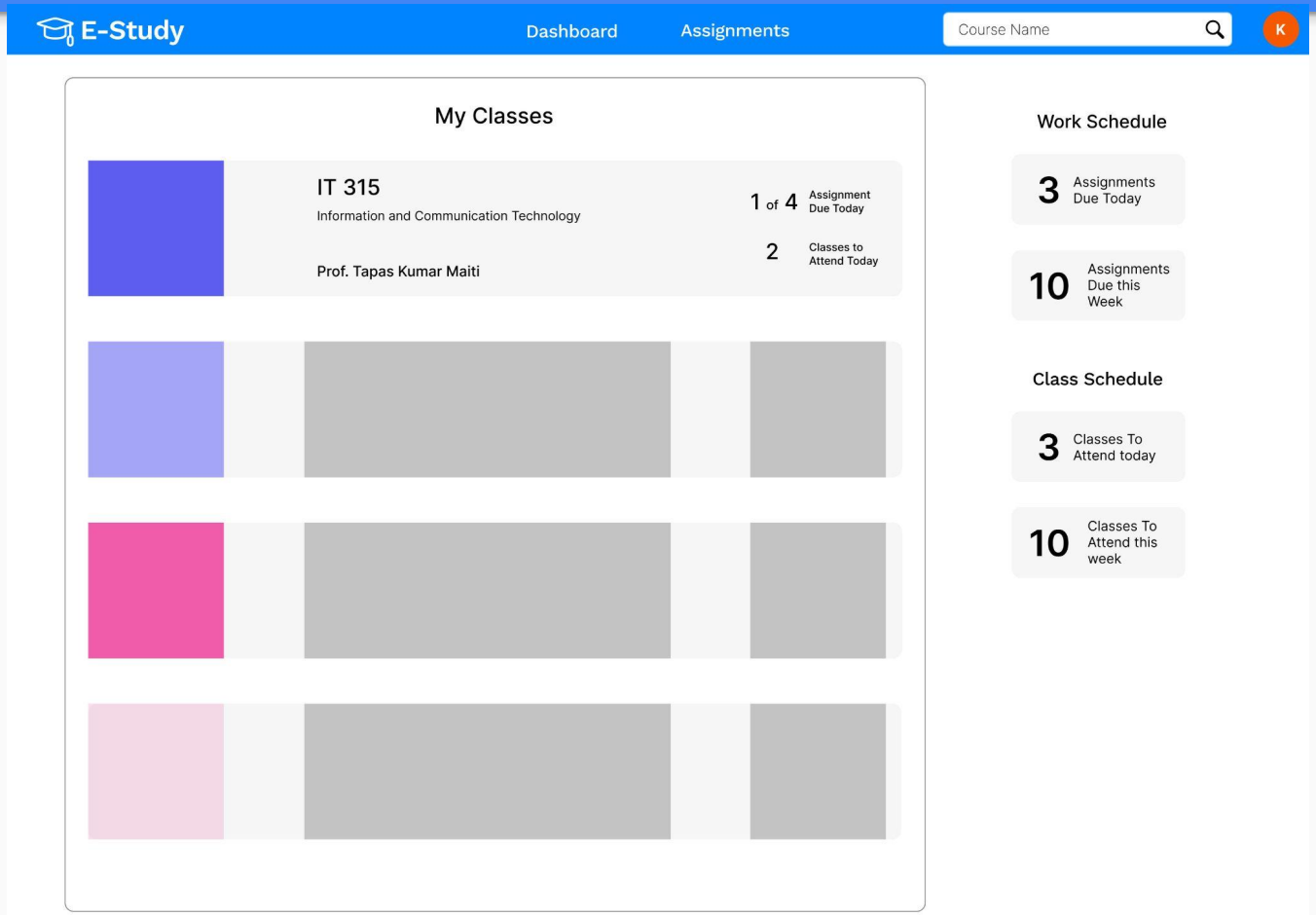
Development Tools

- VScode - An all in one modern code editor.
- PgAdmin - An application for managing Postgres database.

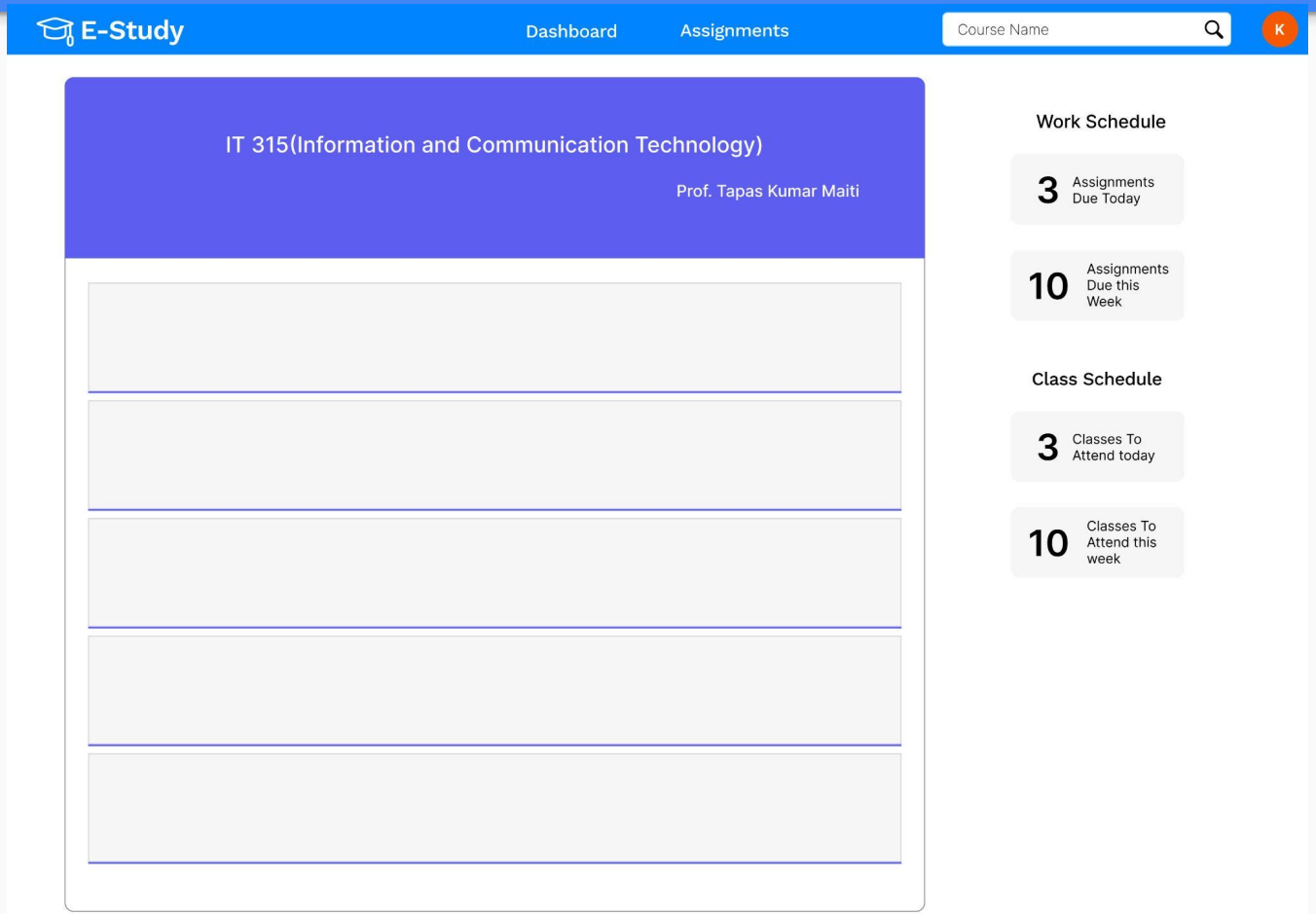
Languages

- JavaScript, HTML, CSS, Python

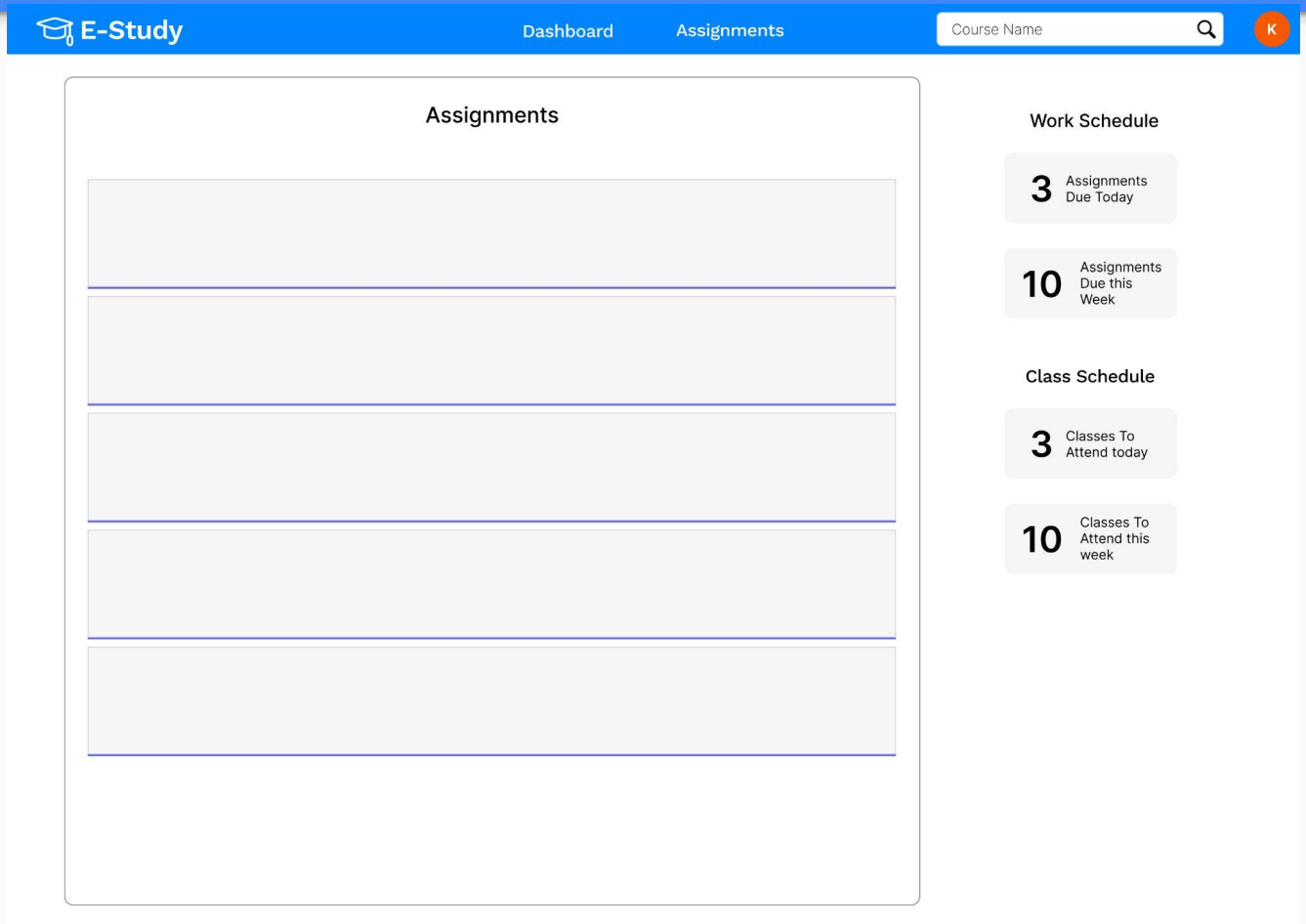
Application navigation using UI / UX design



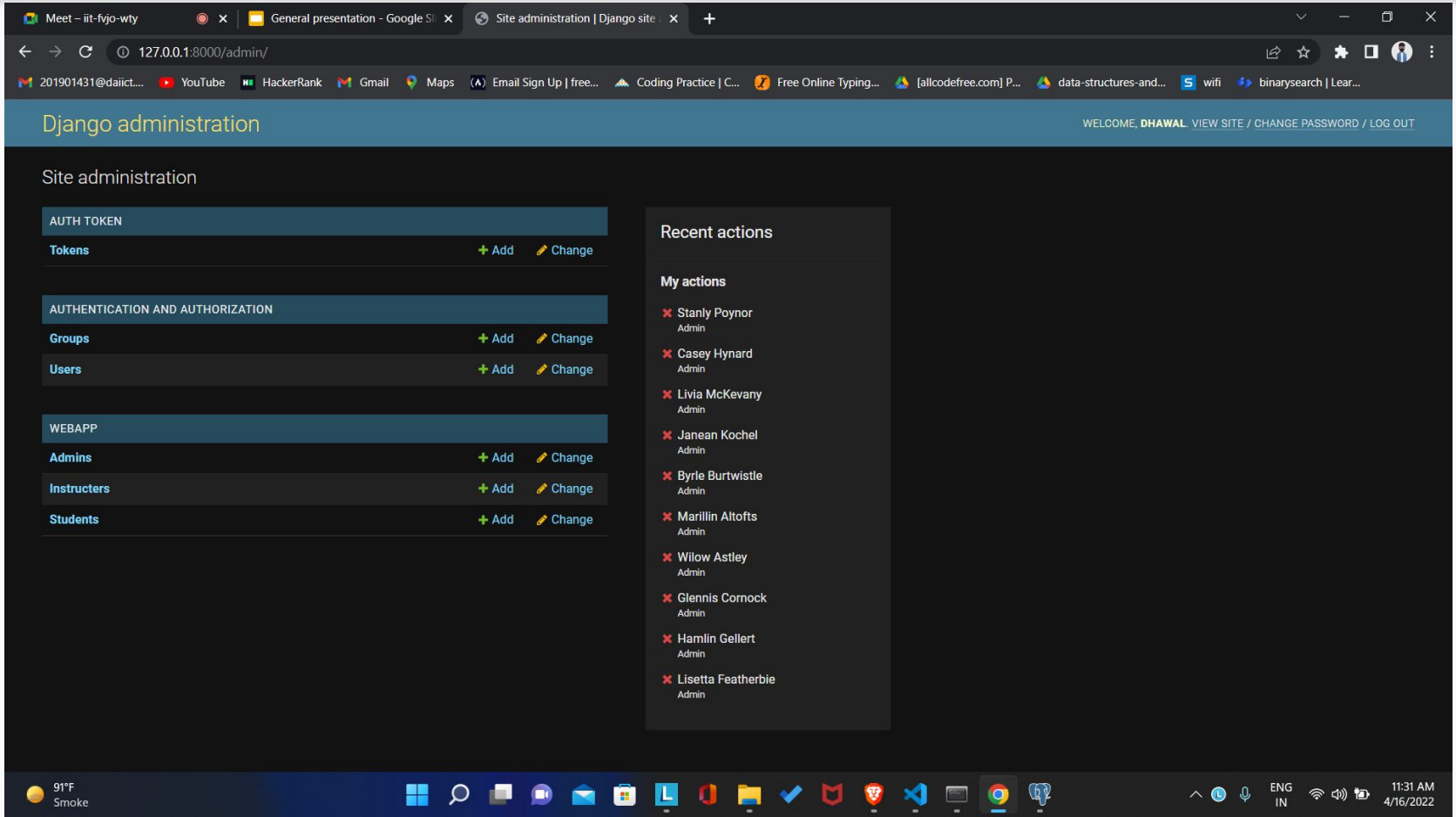
Application navigation using UI / UX design



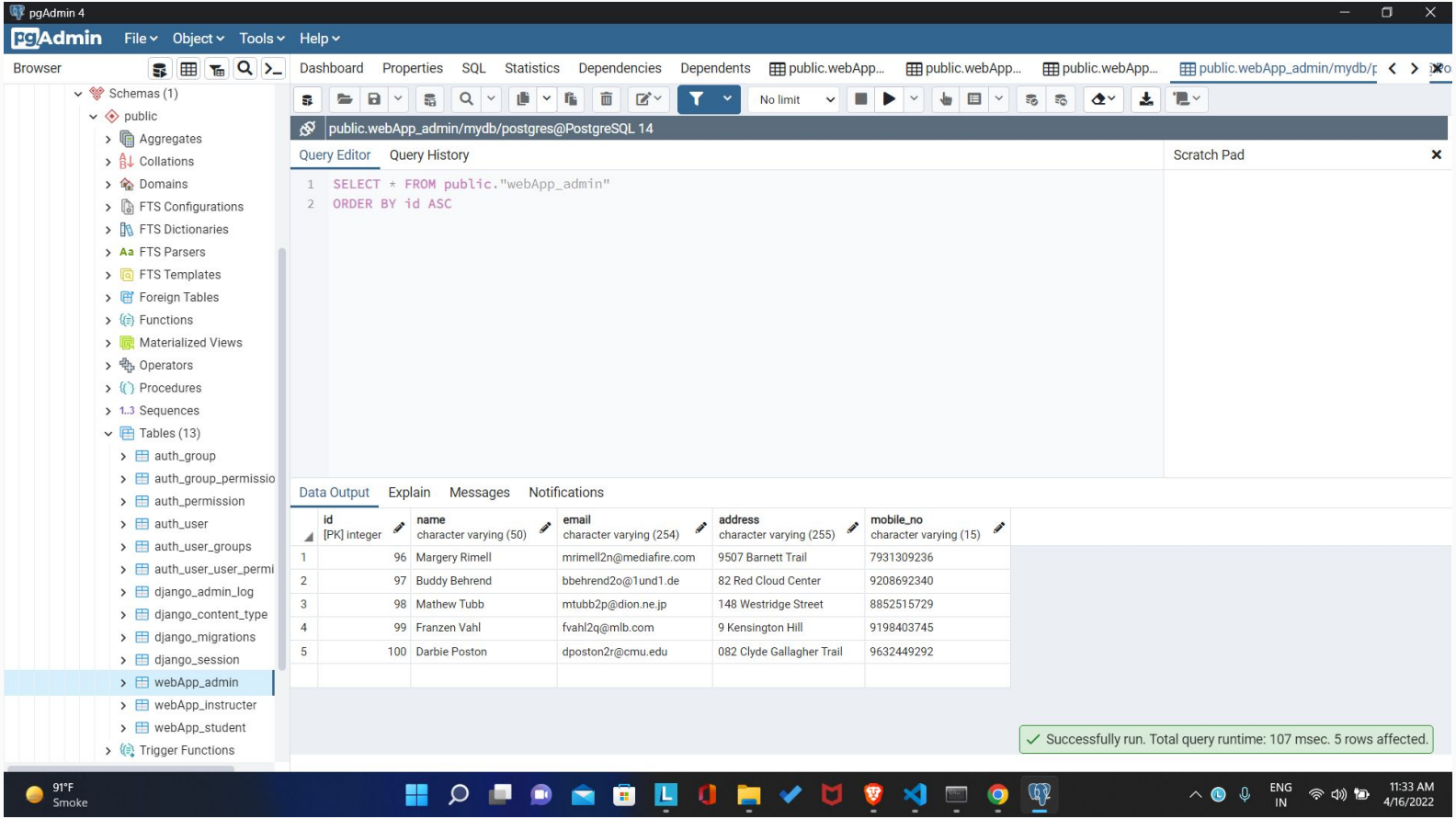
Application navigation using UI / UX design



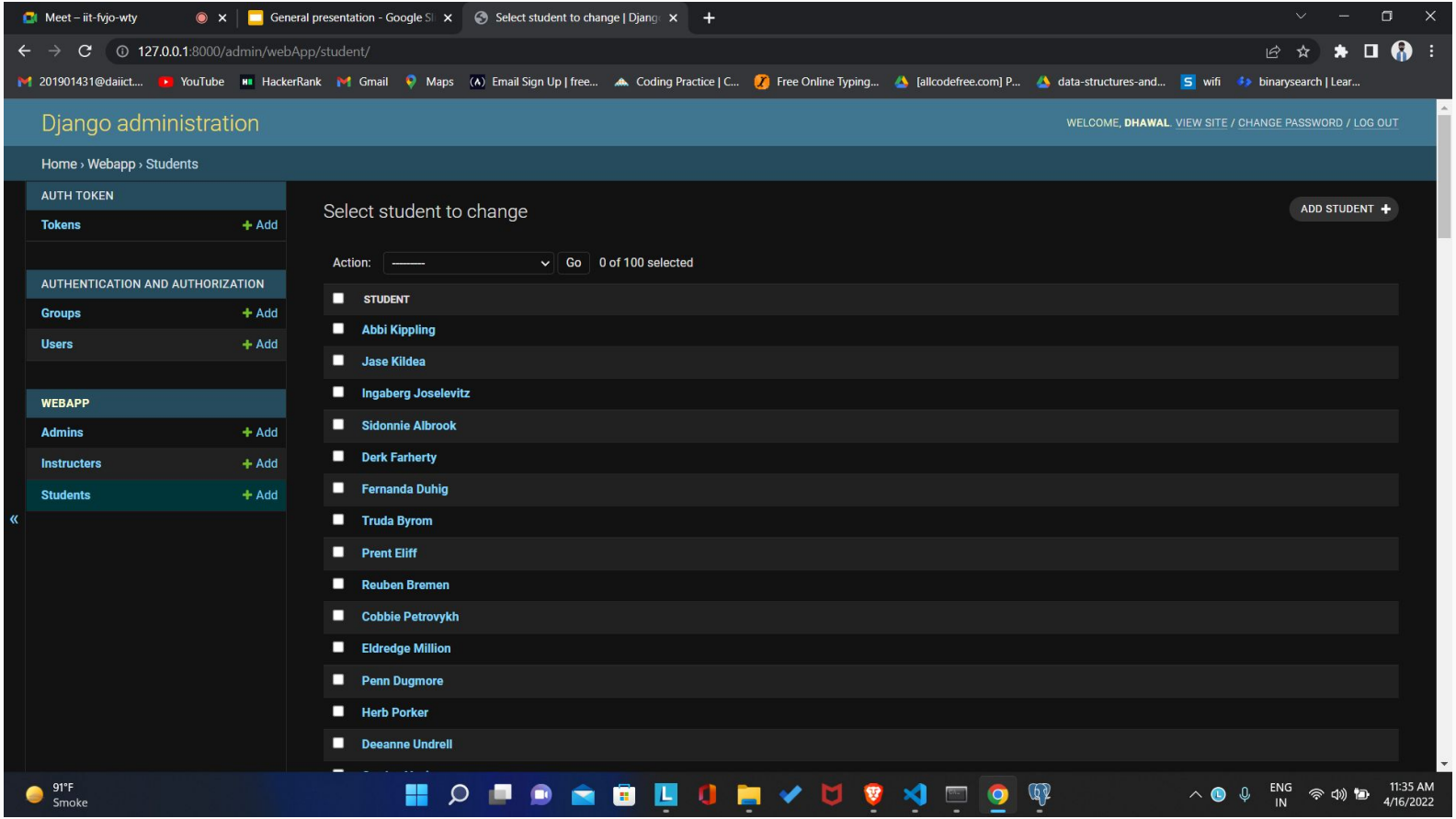
Application navigation using UI / UX design



Application navigation using UI / UX design



Application navigation using UI / UX design



Summary of Implementation

- To handle the coding component, we primarily used Visual Studio Code and Terminal. Many extensions are available for Visual Studio Code, which improves the development experience.

- We utilised SQL as a database, we used the django as backend framework, and postgres as Database.

Thank you!