1 INTRODUCTION

1.1 Overview

Smart Assignment is a web-based application designed to streamline the process of assignment management and enhance collaboration among students, teachers, and administrators. This project aims to leverage web development technologies to create an intelligent platform that automates assignment creation, submission, grading, and feedback, thereby improving the efficiency and effectiveness of the assignment process. Students can access the platform to view and submit assignments. The application allows for secure file uploads, ensuring the integrity and confidentiality of submitted work. The system provides notifications and reminders to students about upcoming assignment due dates and any updates or clarifications from teachers.

1.2 Purpose

Smart Assignment aims to enhance the assignment management process, promote collaboration, and improve educational outcomes. By leveraging intelligent technologies and providing a user-friendly interface, the application streamlines administrative tasks, enhances student-teacher communication, and facilitates a more efficient and engaging learning experience.

2 LITERATURE SURVEY

2.1 Existing problem

Most of the existing systems share the assignment to students by means of Google Classroom, Microsoft Teams, etc. where the students can check the assignment, but submission may be done manually. The evaluation of assignment submissions may be done manually.

2.2 Proposed solution

In our project digital platform shares assignments by various subject faculty and they can choose subjects, accordingly they may submit assignments as per the deadlines. Once the assignments are evaluated by respective faculty can update marks which will reflect on student dashboard.

3 THEORITICAL ANALYSIS

3.1 Block diagram

Here is the technical diagram helps in understanding our project.

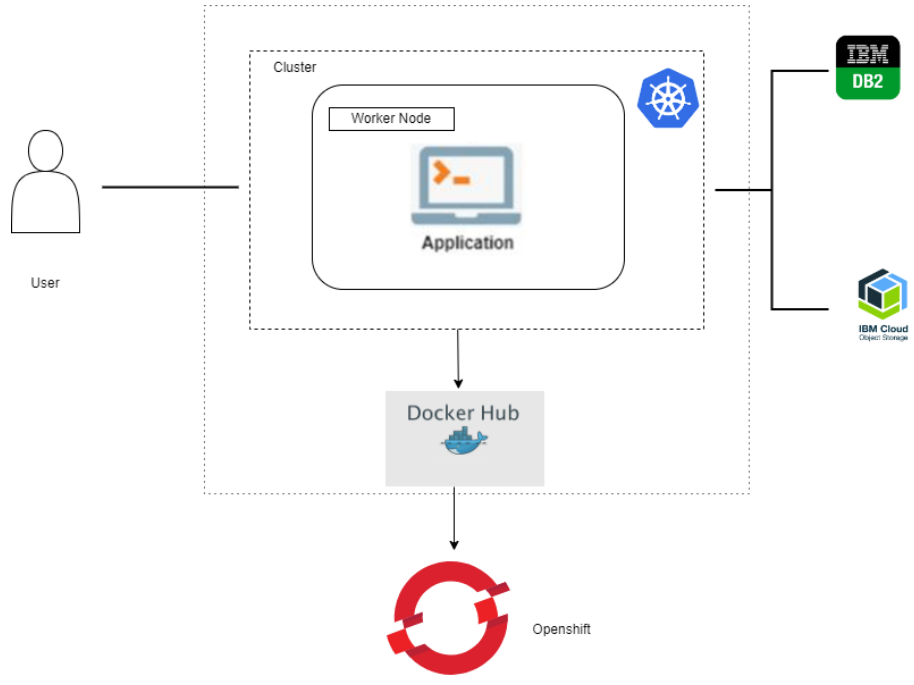


Figure 1: Block diagram of Smart Assignment Engine

3.2 Hardware / Software Designing

Need a system that supports Python, Flask, IBM driver installation, ibm_db, and IBM-cos-SDK libraries to develop a web application that uses IBM database and IBM cloud storage to store files.

4 EXPERIMENTAL INVESTIGATIONS

The first website home page contains Contact Us, login tabs with three logins (Student, Faculty, Admin).

5 FLOWCHART

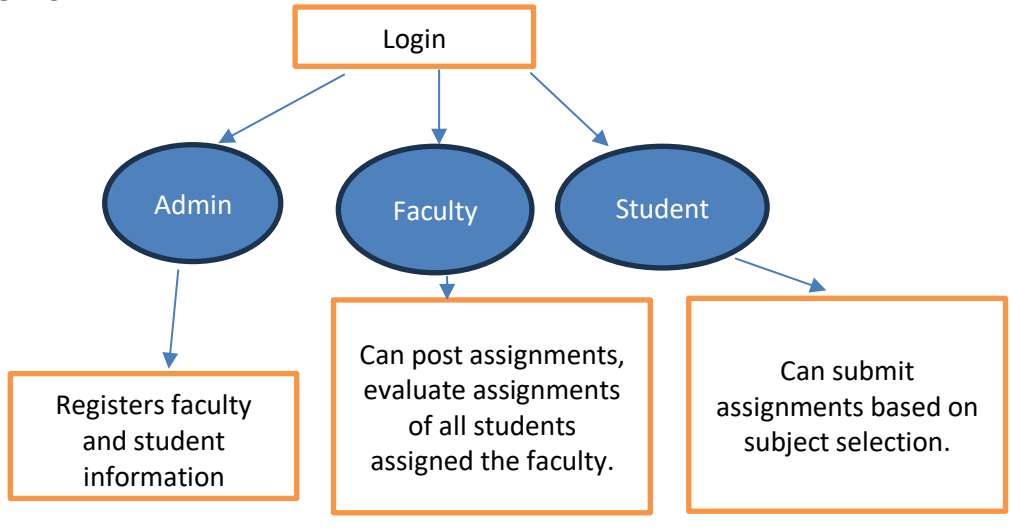
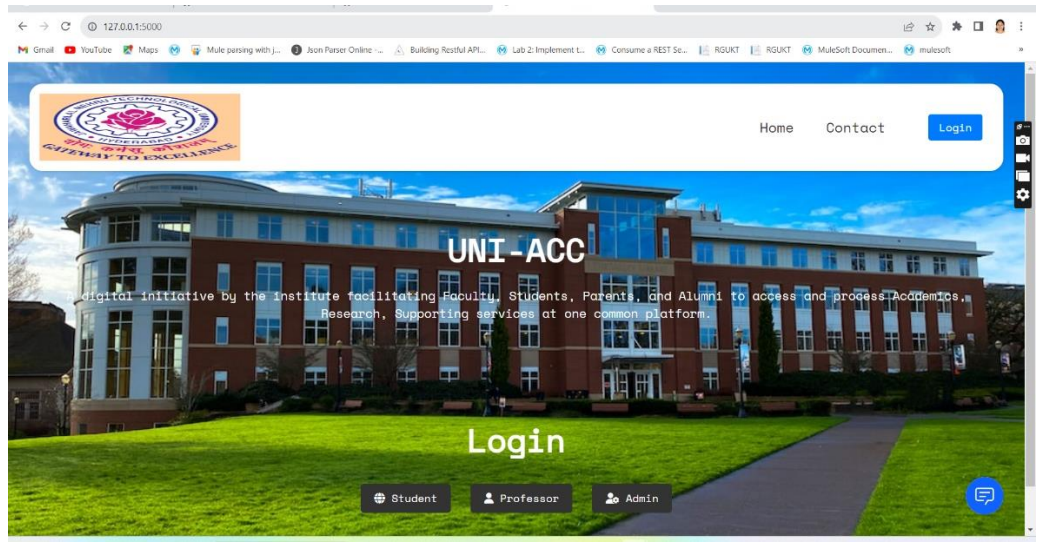


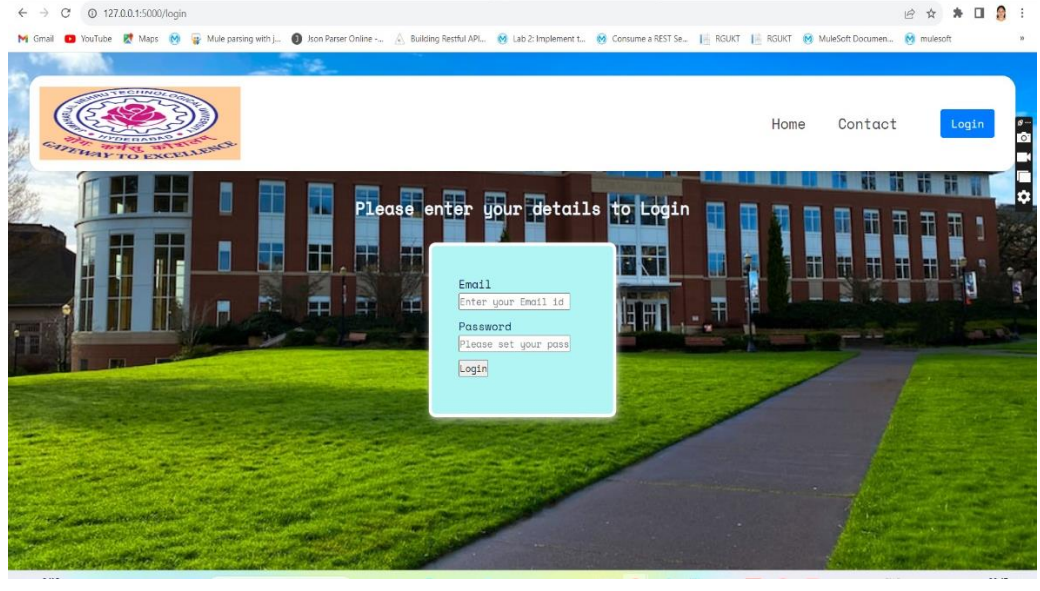
Figure 2: Flow chart of Smart assignment Engine

6 RESULT

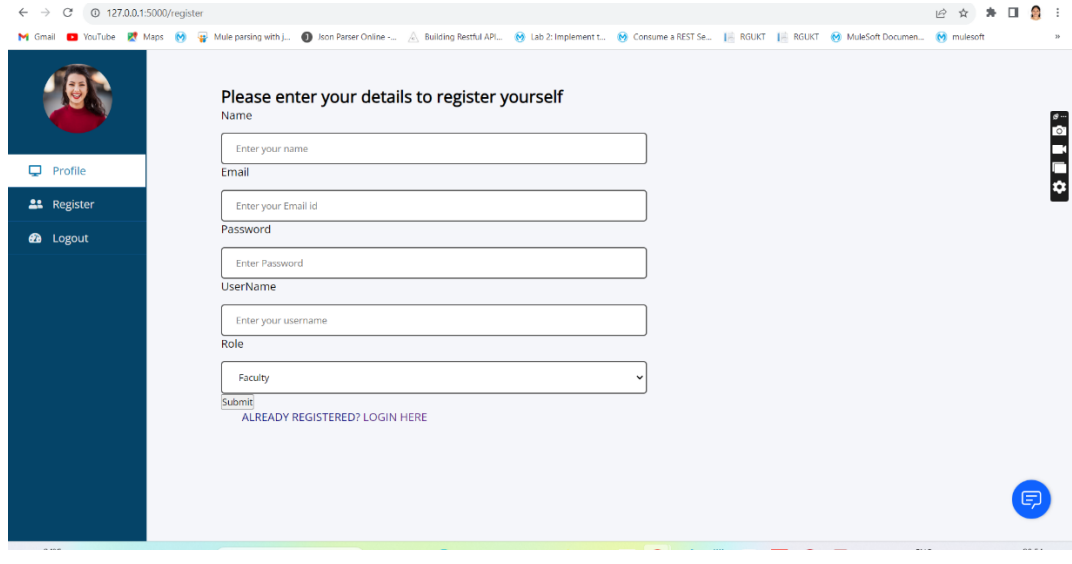
index.html (home page)



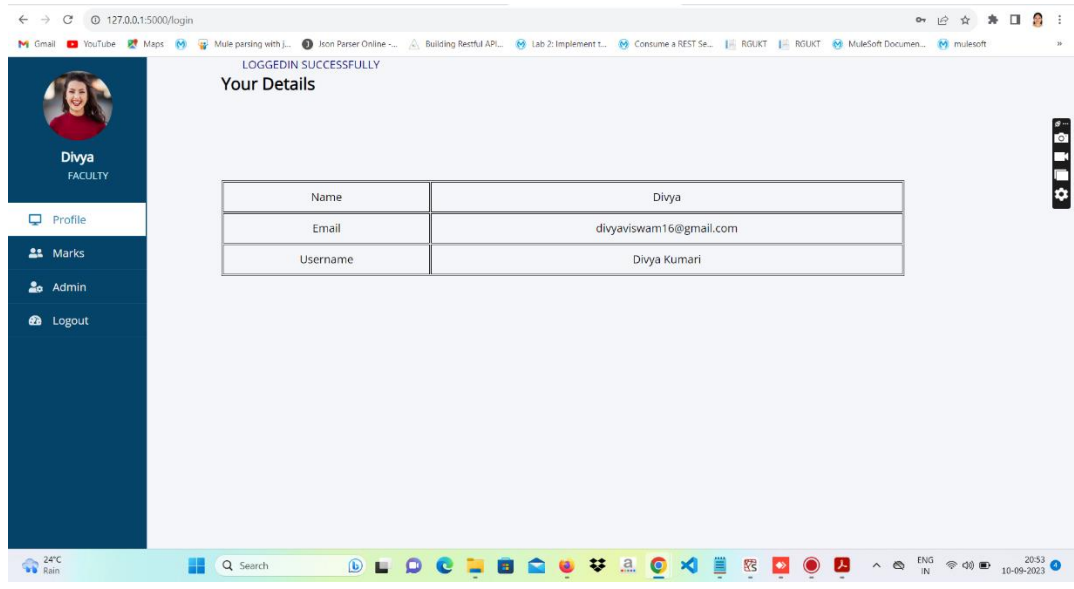
Login page



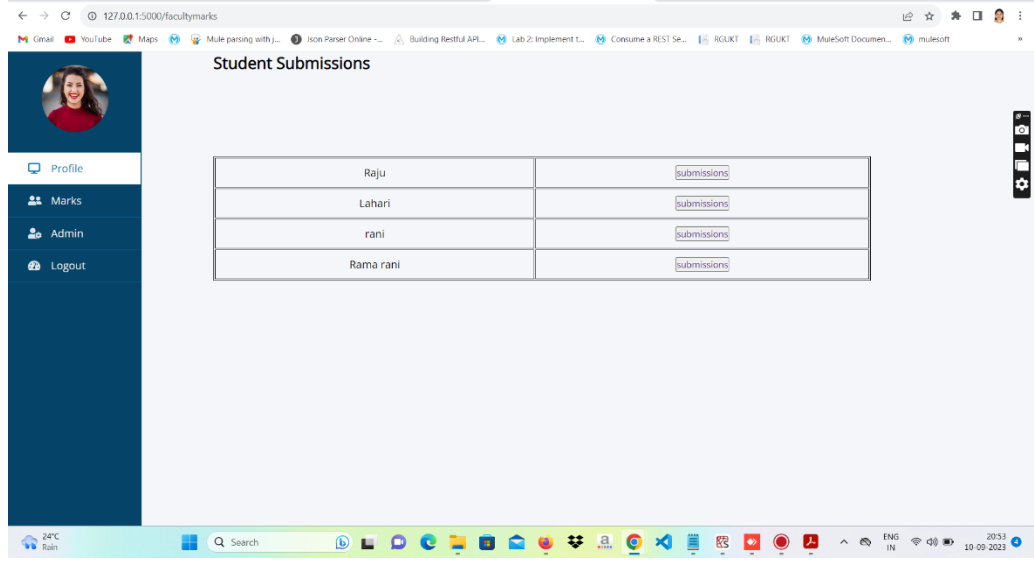
Admin page



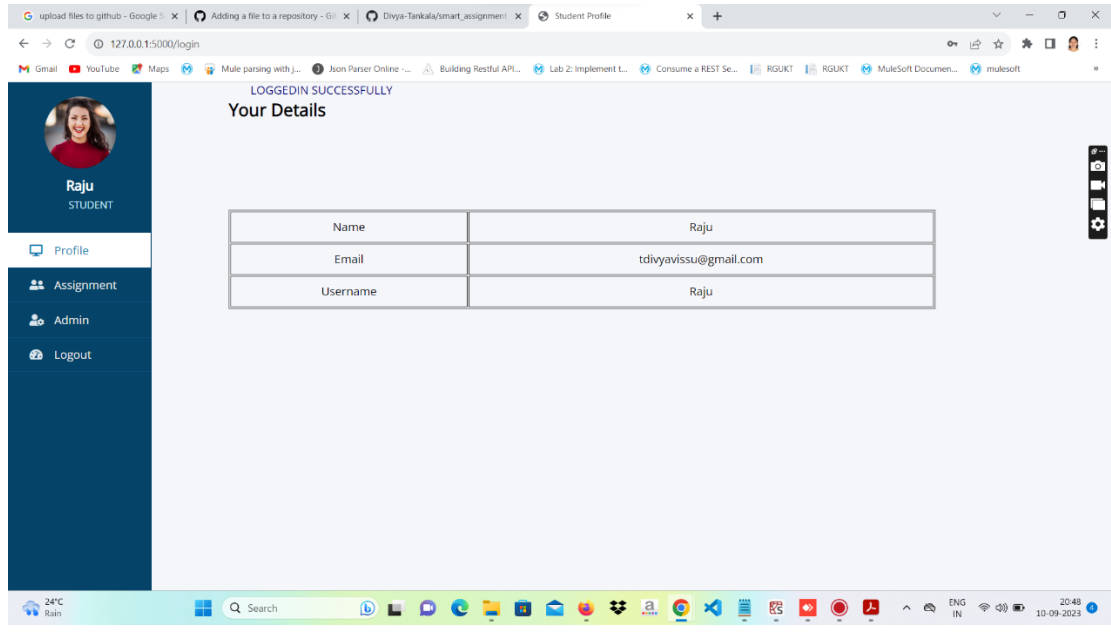
Faculty profile page



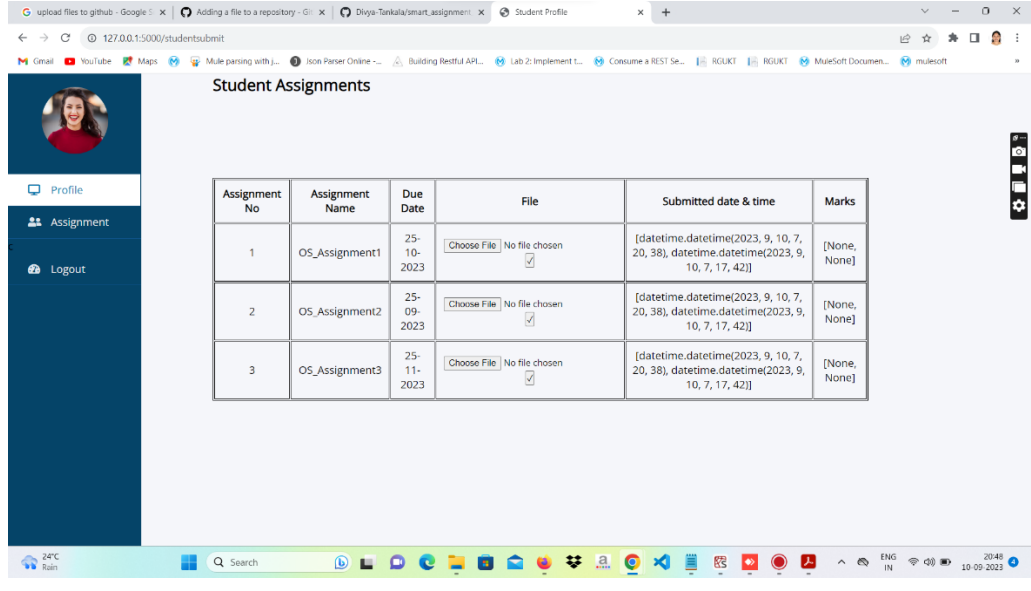
Students' submissions can be shown in faculty dashboard using the following page



Students can see profile after logged in using the following page



Students can submit assignment using the following page



7 ADVANTAGES & DISADVANTAGES

Social Impact: It will make the life of a student on campus much easier. Professors also have no need to carry the big pile of notebooks submitted by students and the transparency of marks allotment also will be there.

Business Model/Impact: It will also give a positive impression about the university around the time of admissions and can be made by digitizing the campus.

8 APPLICATIONS

Educational institutions can use applications to automate and faster the assignment evaluation process.

9 CONCLUSION

Our web application can help faculty student collaboration easy and effective.

10 FUTURE SCOPE

Application can be enhanced with video lectures and question and answers platform to collaborate in a better way.