Modern Database Mini Project

Student Information

SRN	R21EF242
Name	Pavan B N
Branch	CSE 'E'
Project Name	Student Information System

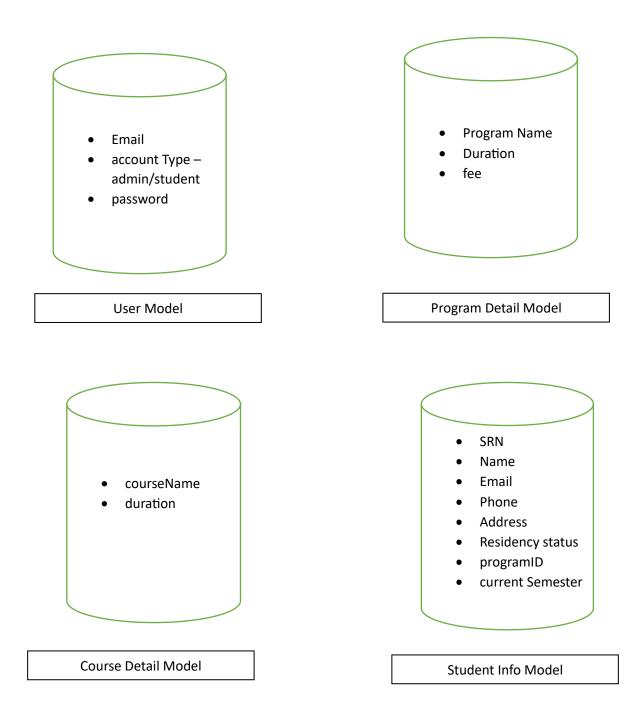
Tech Stack

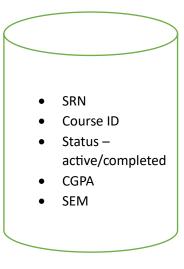
Frontend	React
Backend	NodeJS
Database	MongoDB

AIM

- ➤ Design a Student Information System Which is responsible for Managing basic details of student including their grades, program and course details
- ➤ Design a database to store student information, courses, grades, and attendance records.
- Include features like adding/editing students, enrolling in courses, and generating report cards.

Database Design





SRNSEMDetailsNum of backlogsresult

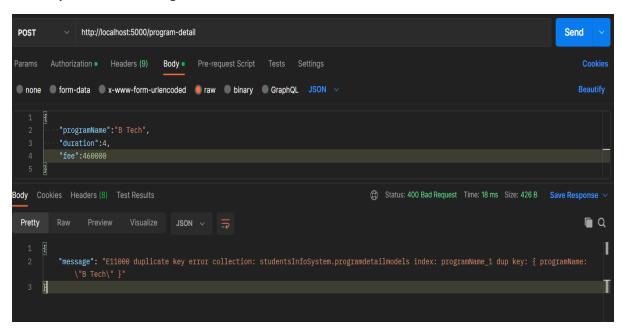
Enrolled Course Model

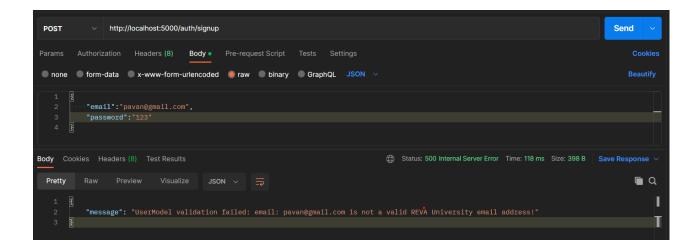
Grade Model

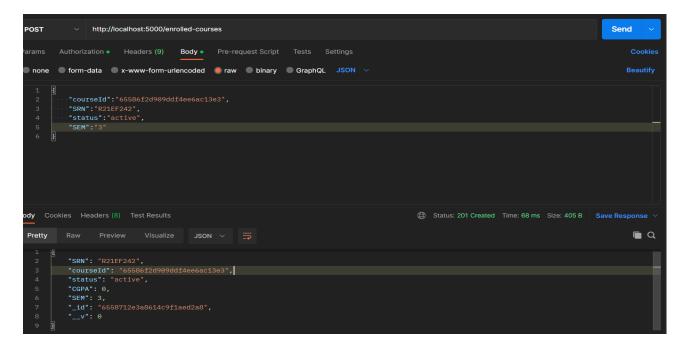
NodeJS API Endpoints

```
app.use("/auth", AuthRoute)
app.use("/program-detail", ProgramDetailsRoute)
app.use("/course-detail", CourseDetailsRoute)
app.use("/enrolled-courses", EnrolledCoursesRoute)
app.use("/grade-detail", GradeDetailsRoute)
app.use("/student-detail", StudentDetailsRoute)
```

API Endpoints Tested Using Postman

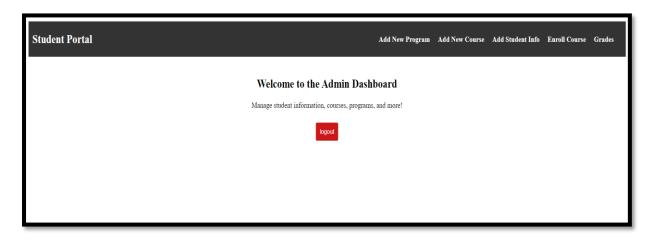




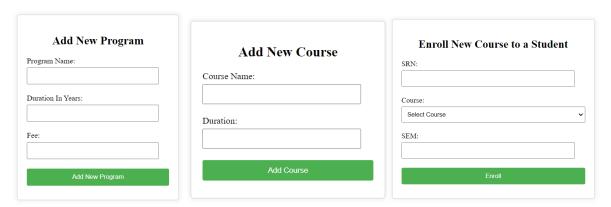


Application Interface Frontend React

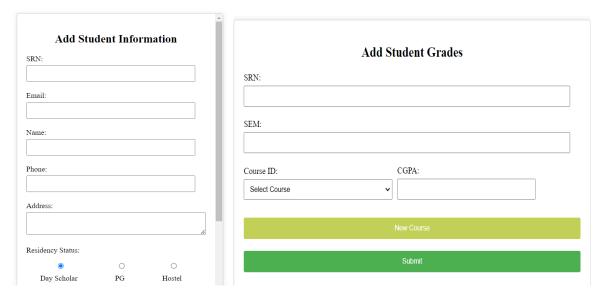
> Admin Dashboard



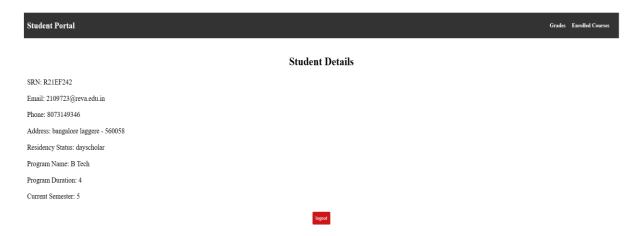
Admin has access to add new program, courses and enrol new course to a student.



Admin also have access to add and update basic student information and declare the student academics grades



> Student can access their information by logging in to the portal



My Grades

SRN: R21EF242	SRN: R21EF242
SEM: 3	SEM: 4
	Details:
	Modern Database, CGPA: 9.9
Details:	Machine Learning, CGPA: 9.7
Java, CGPA: 9.8	OOPs with C++, CGPA: 10
Result: pass	Result: pass
Number of Backlogs: 0	Number of Backlogs: 0

My Enrolled Courses

SRN: R21EF242
Course Name: Modern Database
Course Duration: 6
Status: active
SEM: 5

SRN: R21EF242 Course Name: Embedded System Course Duration: 6 Status: active SEM: 5 SRN: R21EF242 Course Name: OOPs with C++ Course Duration: 6 Status: active SEM: 5

SRN: R21EF242
Course Name: Machine Learning
Course Duration: 6
Status: active
SEM: 5