COLLEGE MANAGEMENT SYSTEM

COURSE – DBMS [CSL 301]

GUIDED BY - DR. SHISHUPAL

BY:

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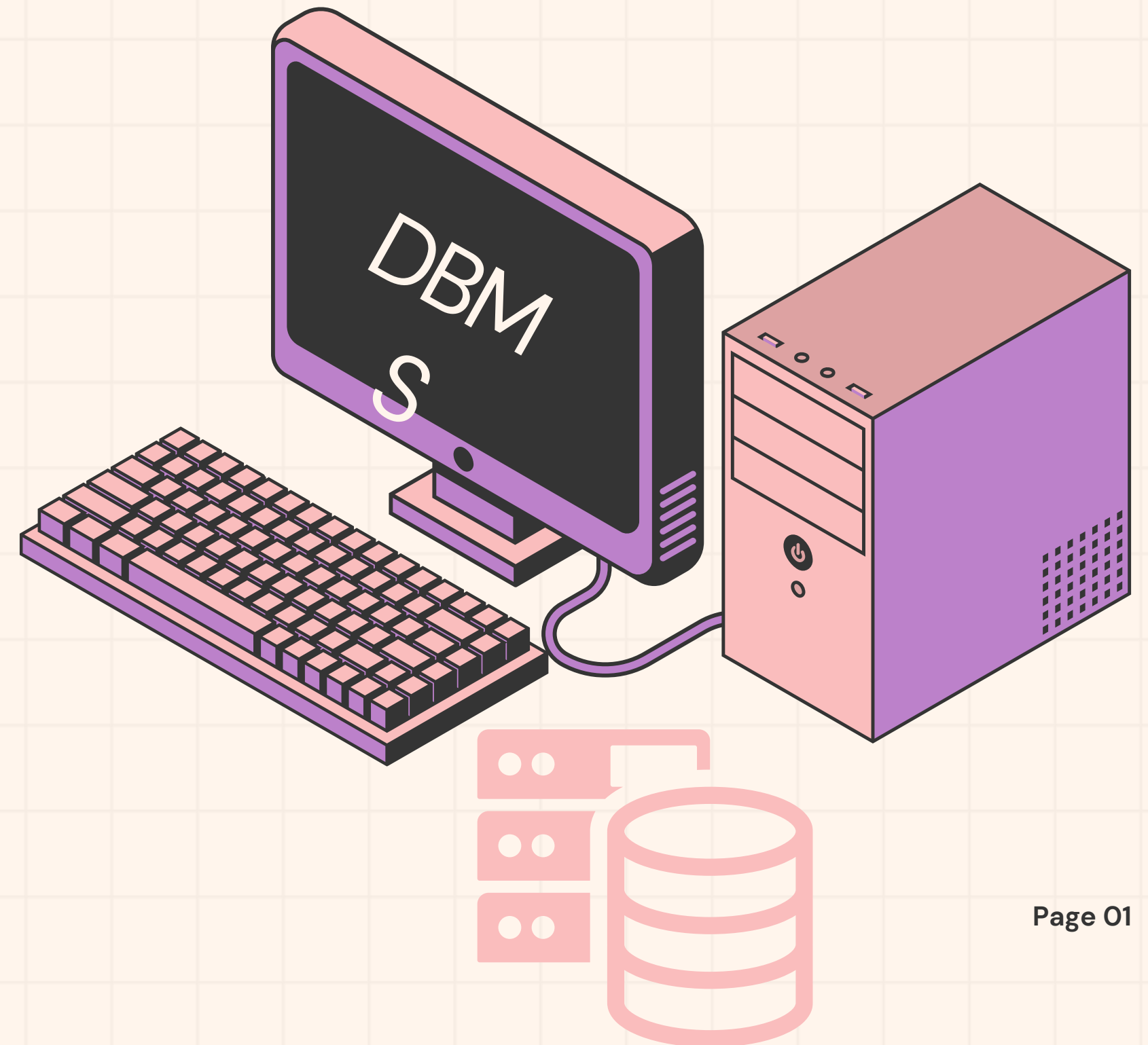HARSH AGARWAL [BT22CSE228]
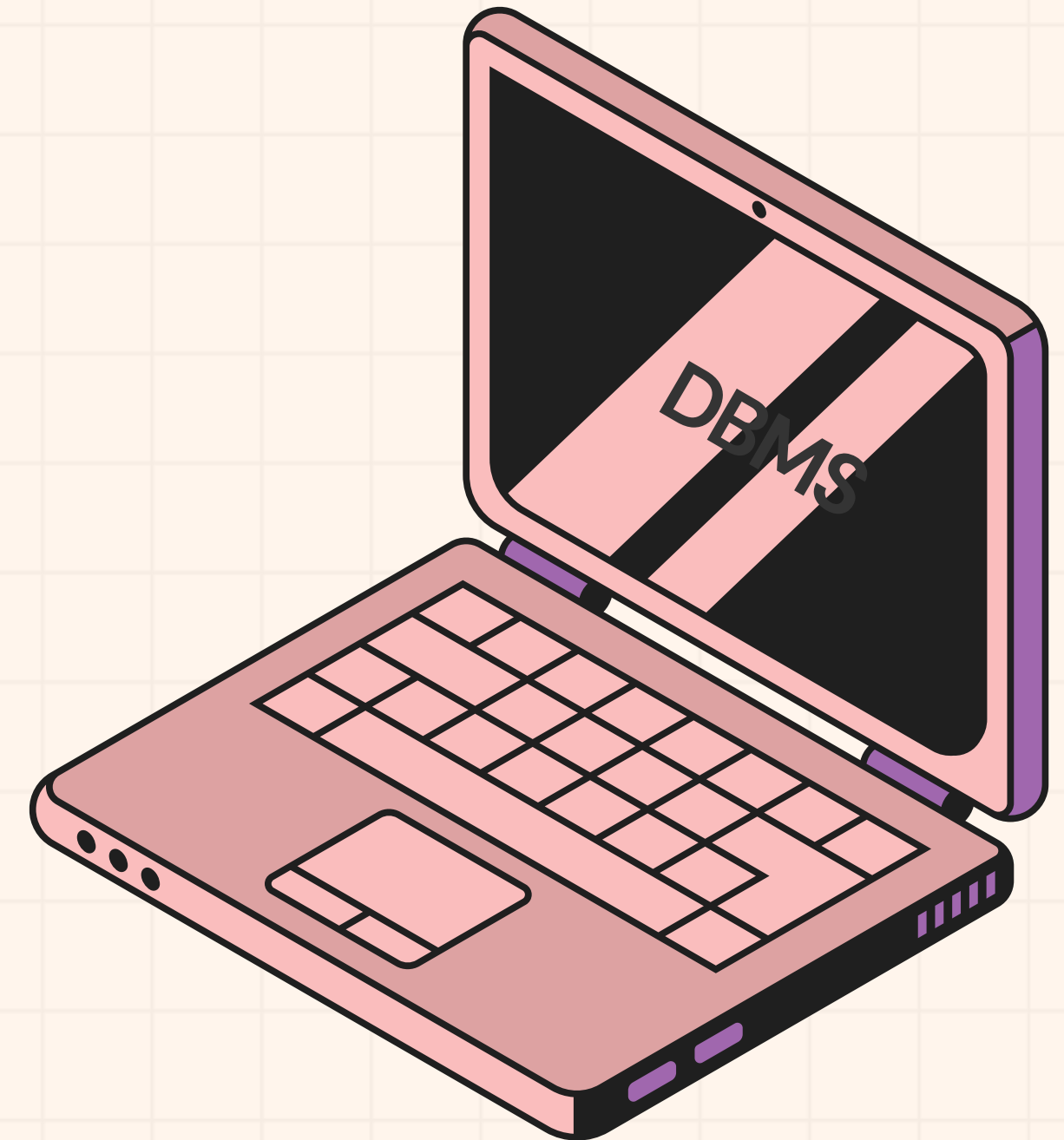
AMRUTHA KUMAR K [BT22CSE213]

DBMS

INTRODUCTION

Objective:

Develop an College management system to manage college operations.

Key Features:

- **Role-based login for Students, Faculty, and Admin.**
- **Centralized management of courses, fees, notices, and resources.**

SYSTEM ARCHITECTURE & TECHNOLOGIES

COMPONENTS

- Frontend: Flutter
- Backend: Node.js
- Database: MySQL

Structure:

Modular architecture with role-based access for Students, Faculty, and Admin.

LOGIN & USER ROLES

Login Screen:

- Welcome page with login options for Students, Faculty, and Admin.
- Tailored access based on user roles, directing each user to their specific panel upon login.

ADMIN PANEL

Overview:

Admin dashboard with options for managing notices, courses, and student data.

Key Features:

Notices for events, fee deadlines, and exams.

Sections to manage Website, Student, Faculty, Courses, Fees, Library, Placement, Alumni and Hostel.

Panel 1 — Notices

Admin Panel

Arjun Mehta
arjun@gmail.com
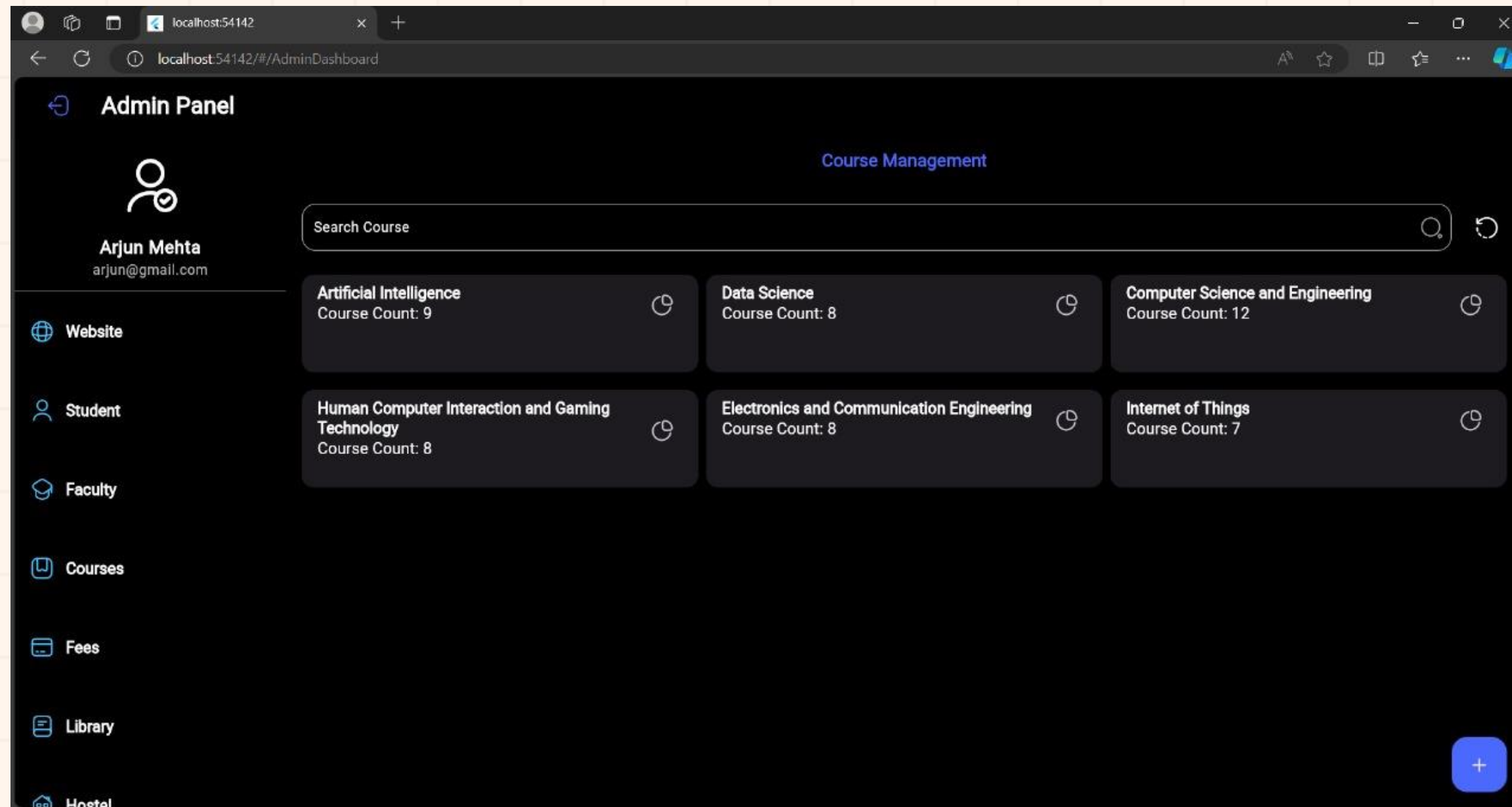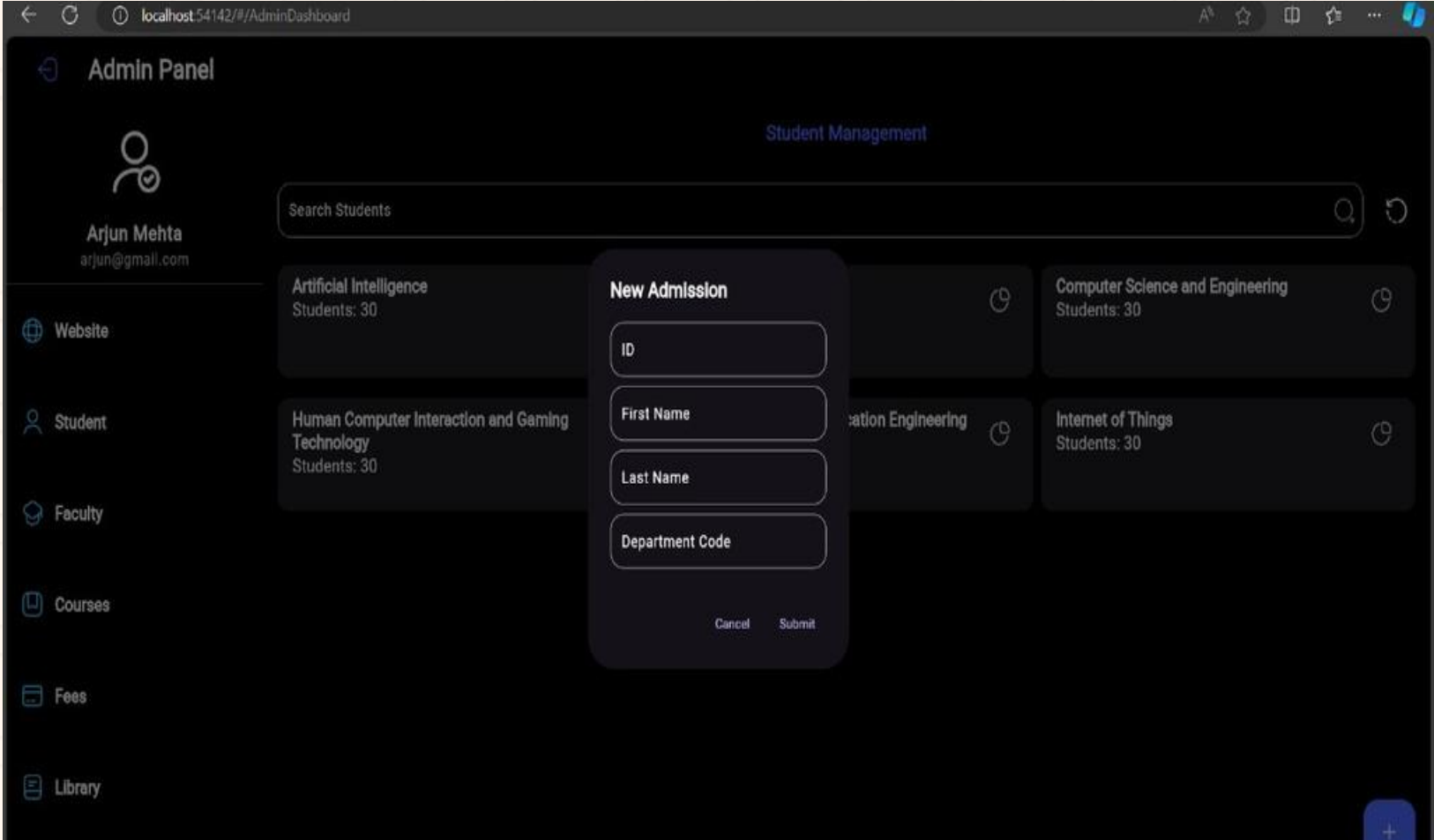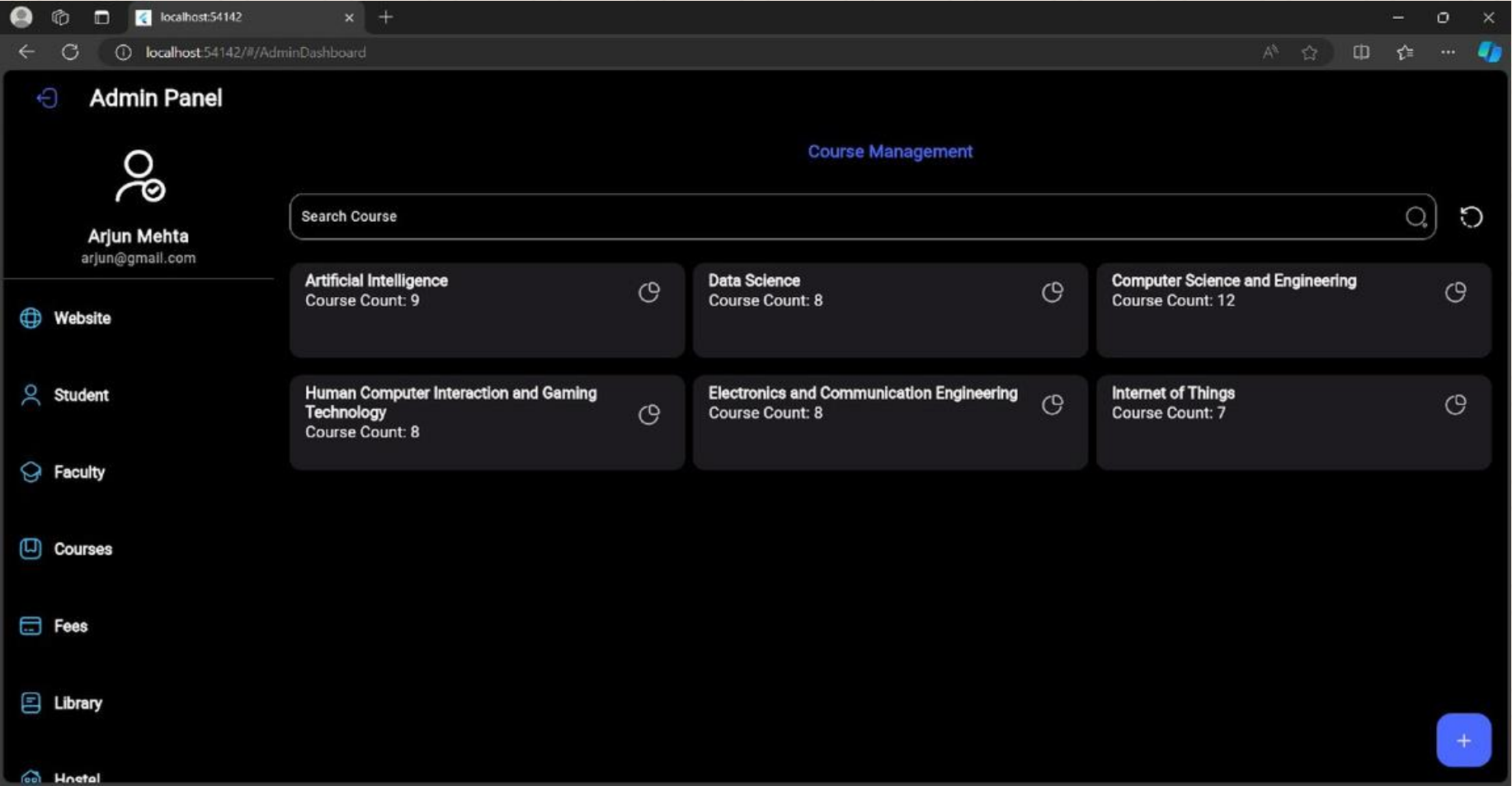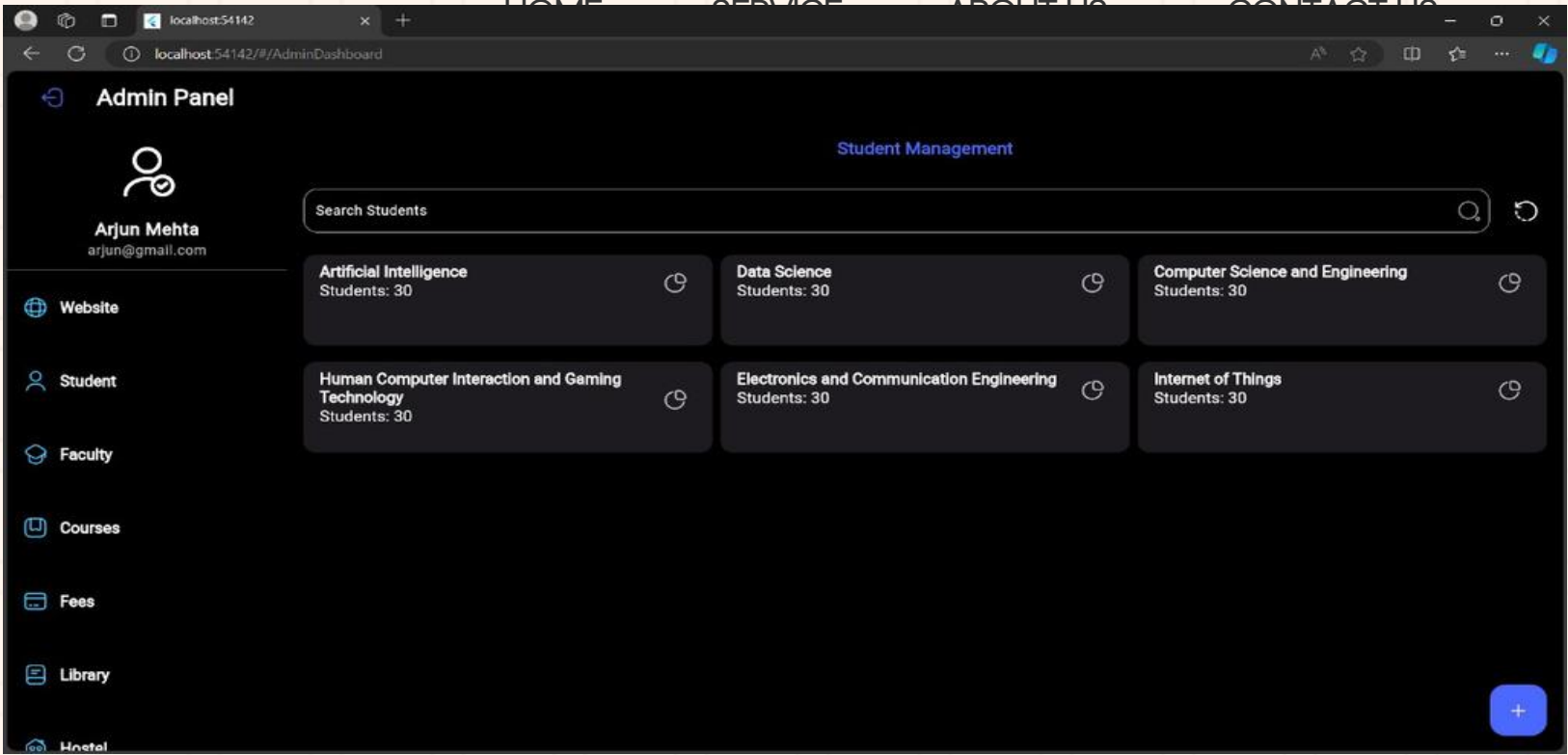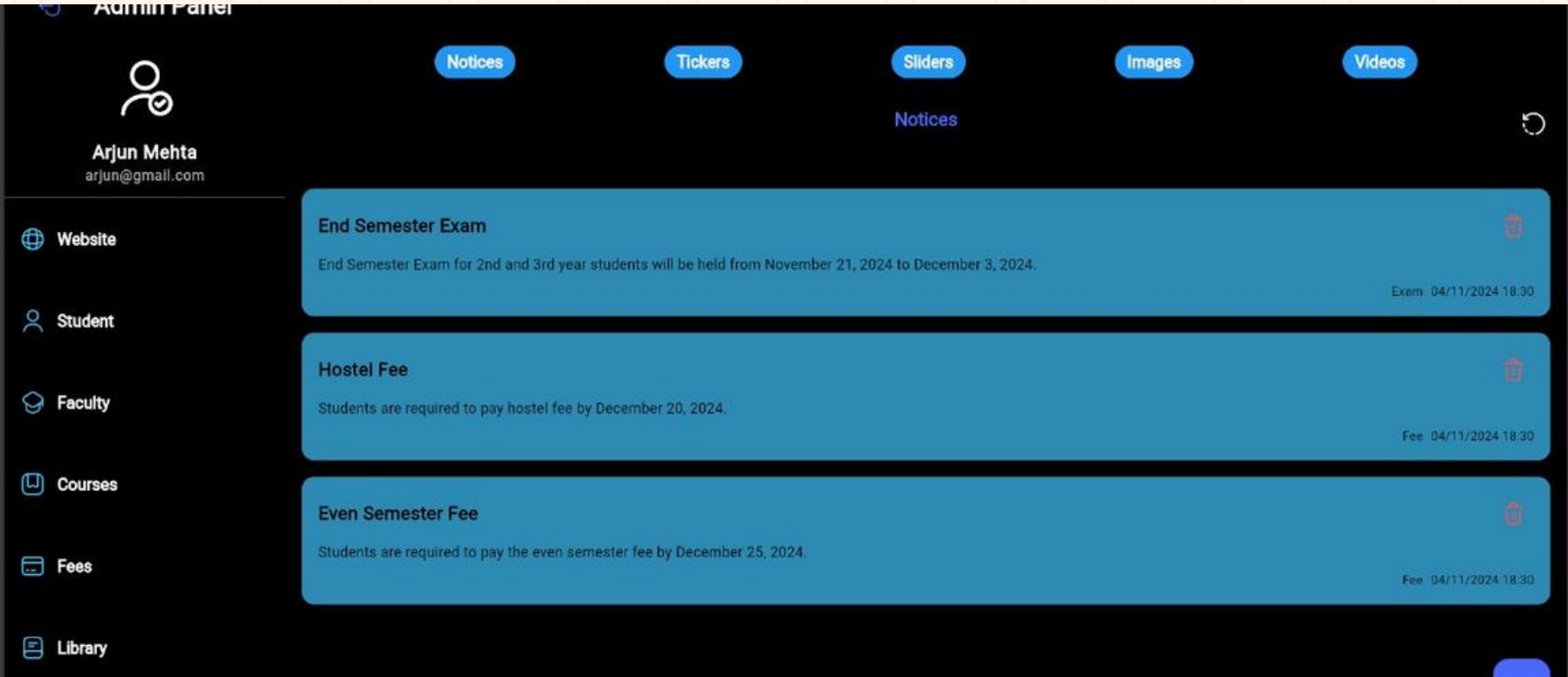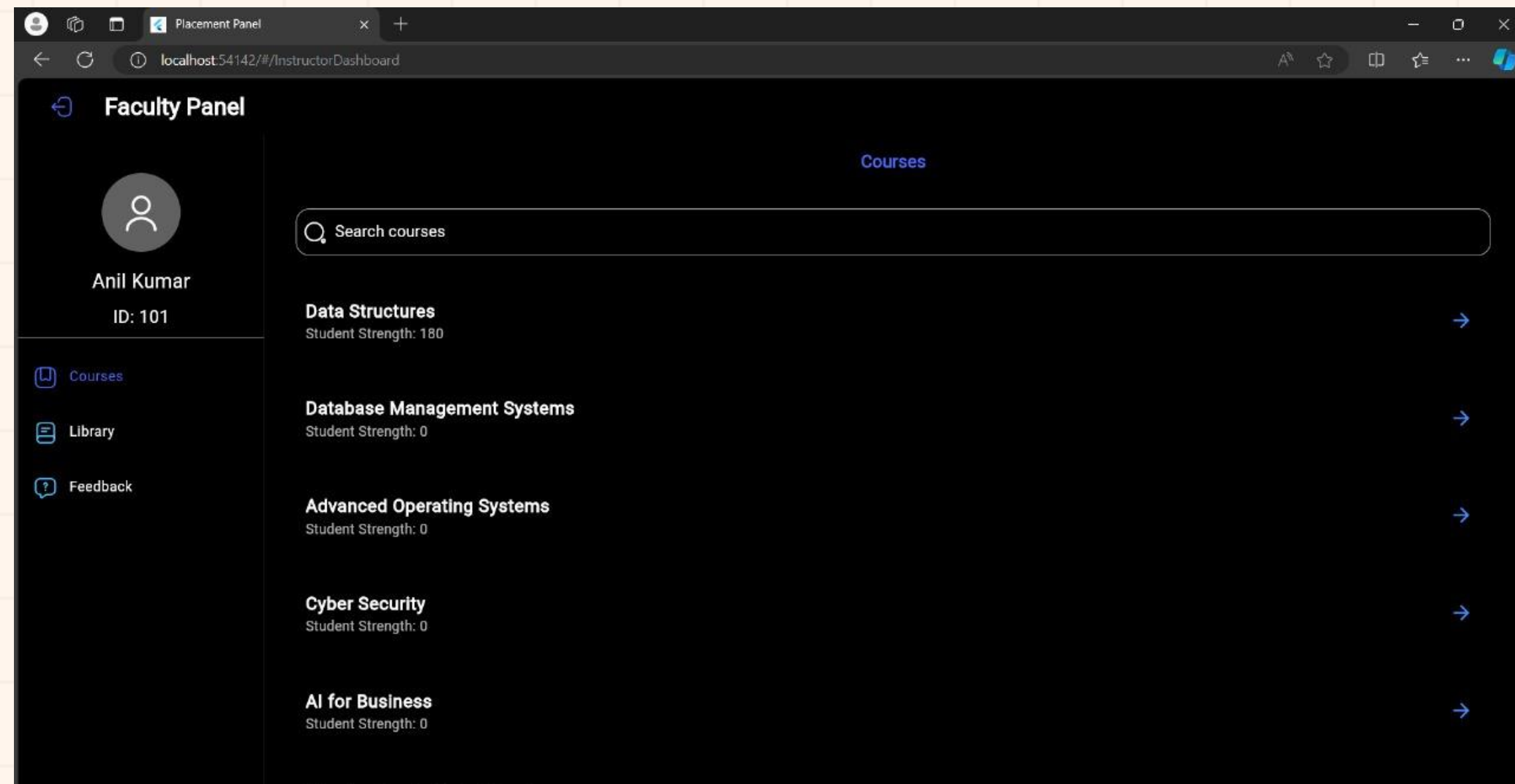
Notices   Tickers   Sliders   Images   Videos

Notices

- Website
- Student
- Faculty
- Courses
- Fees
- Library

End Semester Exam
End Semester Exam for 2nd and 3rd year students will be held from November 21, 2024 to December 3, 2024.
Exam 04/11/2024 18:30

Hostel Fee
Students are required to pay hostel fee by December 20, 2024.
Fee 04/11/2024 18:30

Even Semester Fee
Students are required to pay the even semester fee by December 25, 2024.
Fee 04/11/2024 18:30

Panel 2 — Student Management

localhost:54142

Admin Panel

Arjun Mehta
arjun@gmail.com

Student Management

Search Students

- Website
- Student
- Faculty
- Courses
- Fees
- Library
- Hostel

Artificial Intelligence
Students: 30

Data Science
Students: 30

Computer Science and Engineering
Students: 30

Human Computer Interaction and Gaming Technology
Students: 30

Electronics and Communication Engineering
Students: 30

Internet of Things
Students: 30

Panel 3 — Course Management

localhost:54142
localhost:54142/#/AdminDashboard

Admin Panel

Arjun Mehta
arjun@gmail.com

Course Management

Search Course

- Website
- Student
- Faculty
- Courses
- Fees
- Library
- Hostel

Artificial Intelligence
Course Count: 9

Data Science
Course Count: 8

Computer Science and Engineering
Course Count: 12

Human Computer Interaction and Gaming Technology
Course Count: 8

Electronics and Communication Engineering
Course Count: 8

Internet of Things
Course Count: 7

Panel 4 — Student Management (New Admission)

localhost:54142/#/AdminDashboard

Admin Panel

Arjun Mehta
arjun@gmail.com

Student Management

Search Students

- Website
- Student
- Faculty
- Courses
- Fees
- Library

Artificial Intelligence
Students: 30

Computer Science and Engineering
Students: 30

Human Computer Interaction and Gaming Technology
Students: 30

...ation Engineering

Internet of Things
Students: 30

New Admission

ID

First Name

Last Name

Department Code

Cancel   Submit
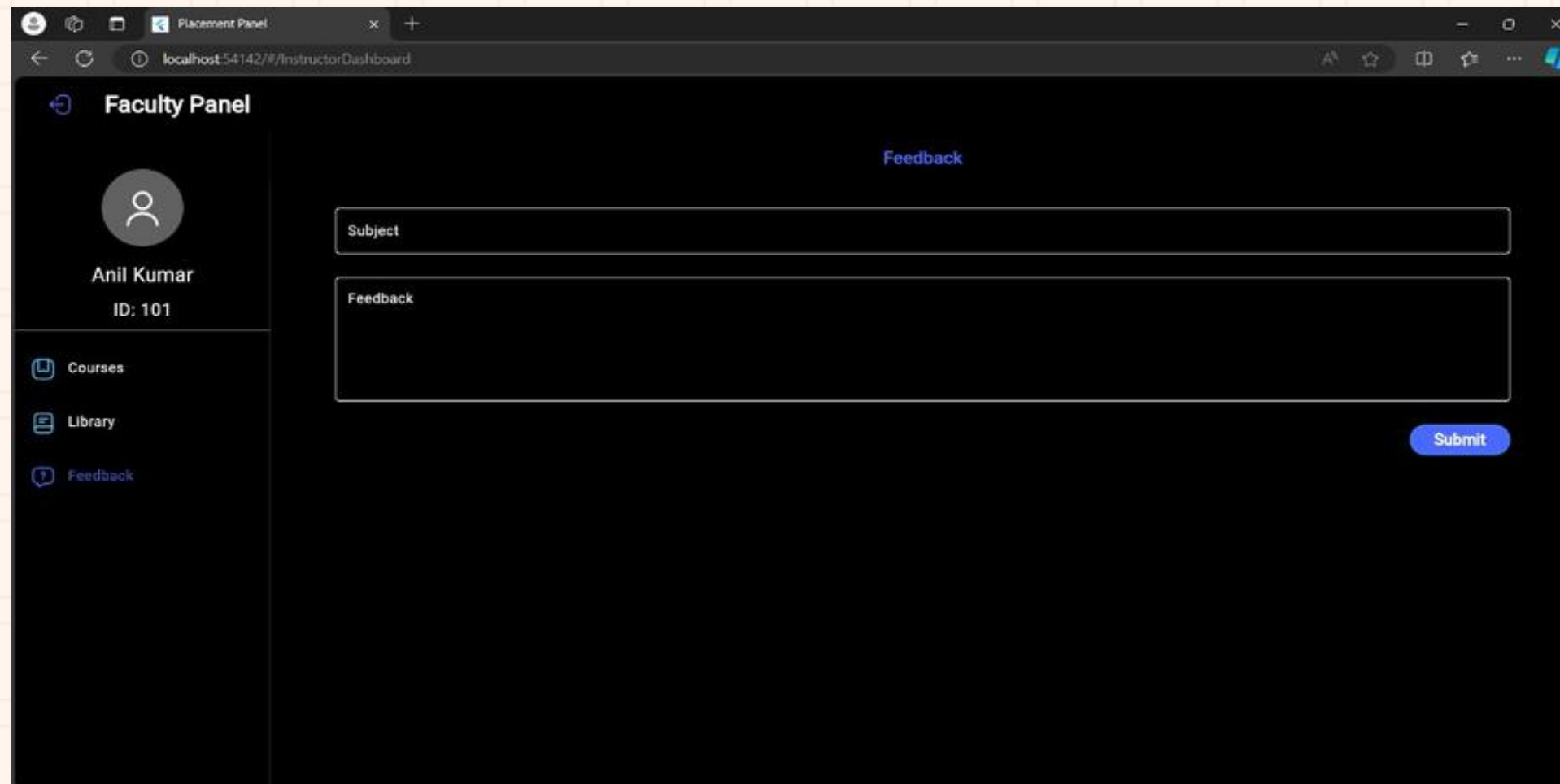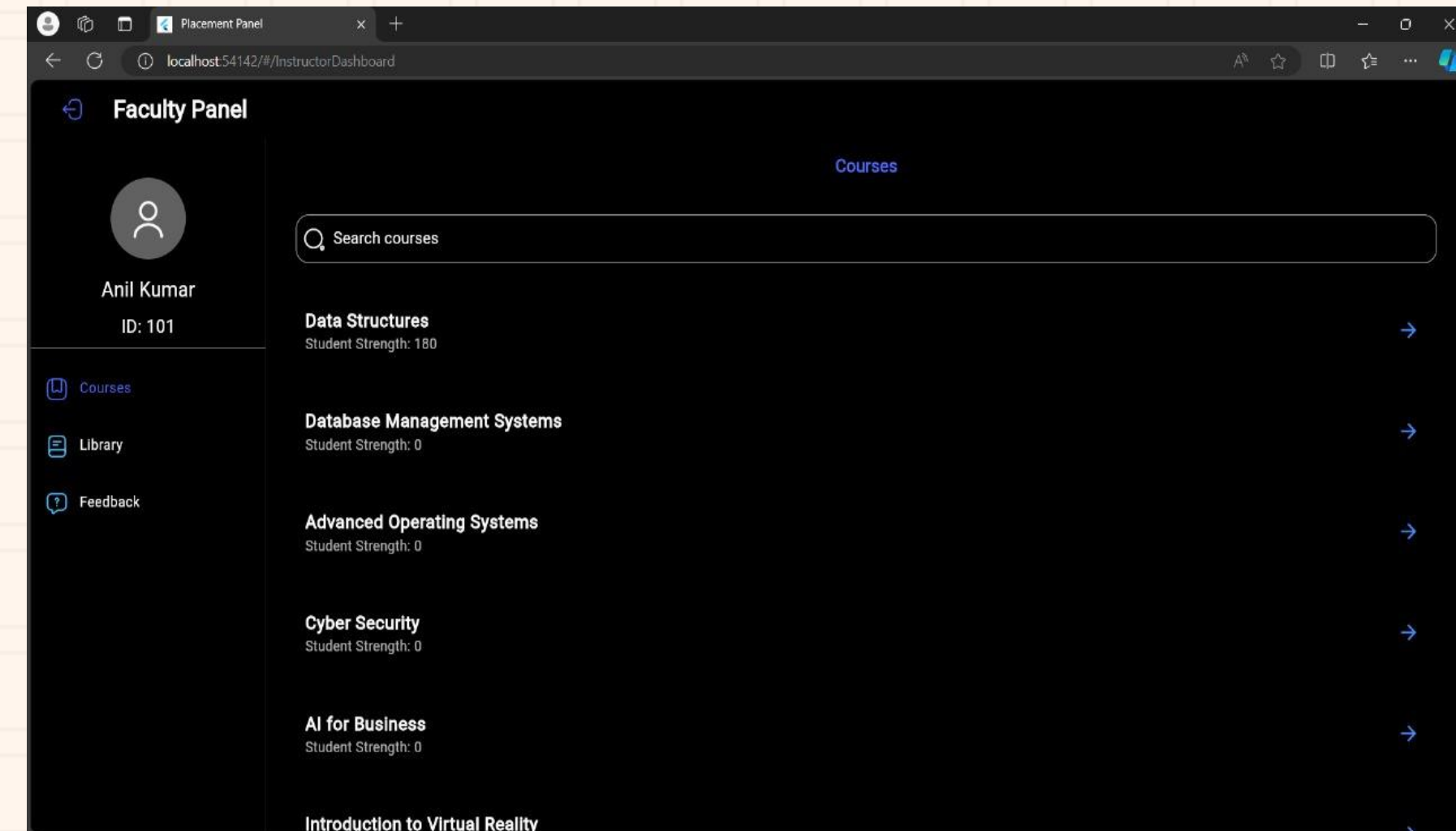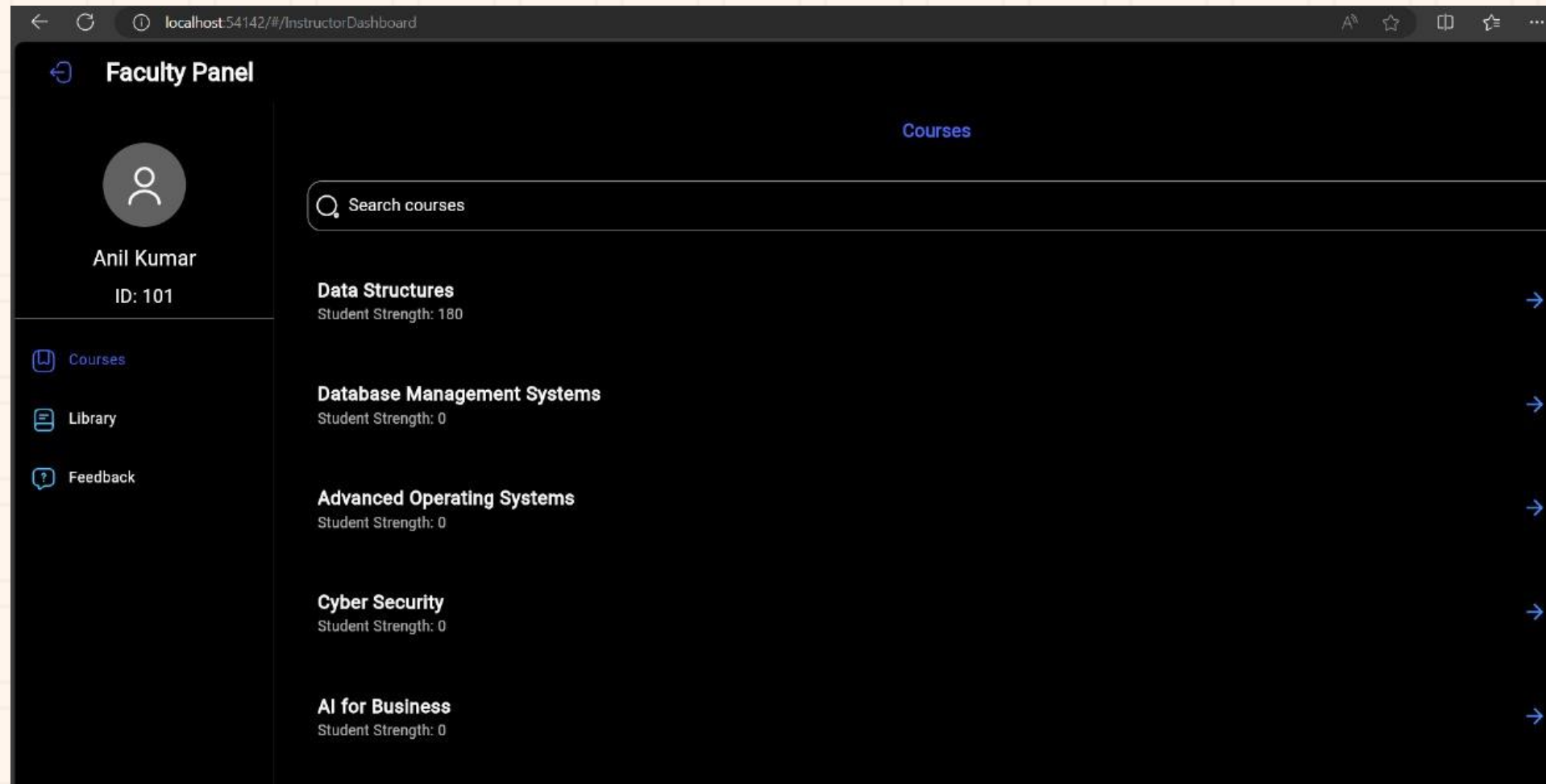
FACULTY PANEL

Overview:

Customized dashboard for Faculty.

Key Features:

- Faculty name and ID displayed.
- Search functionality for courses.
- Lists all courses taught, with student strength for each course.
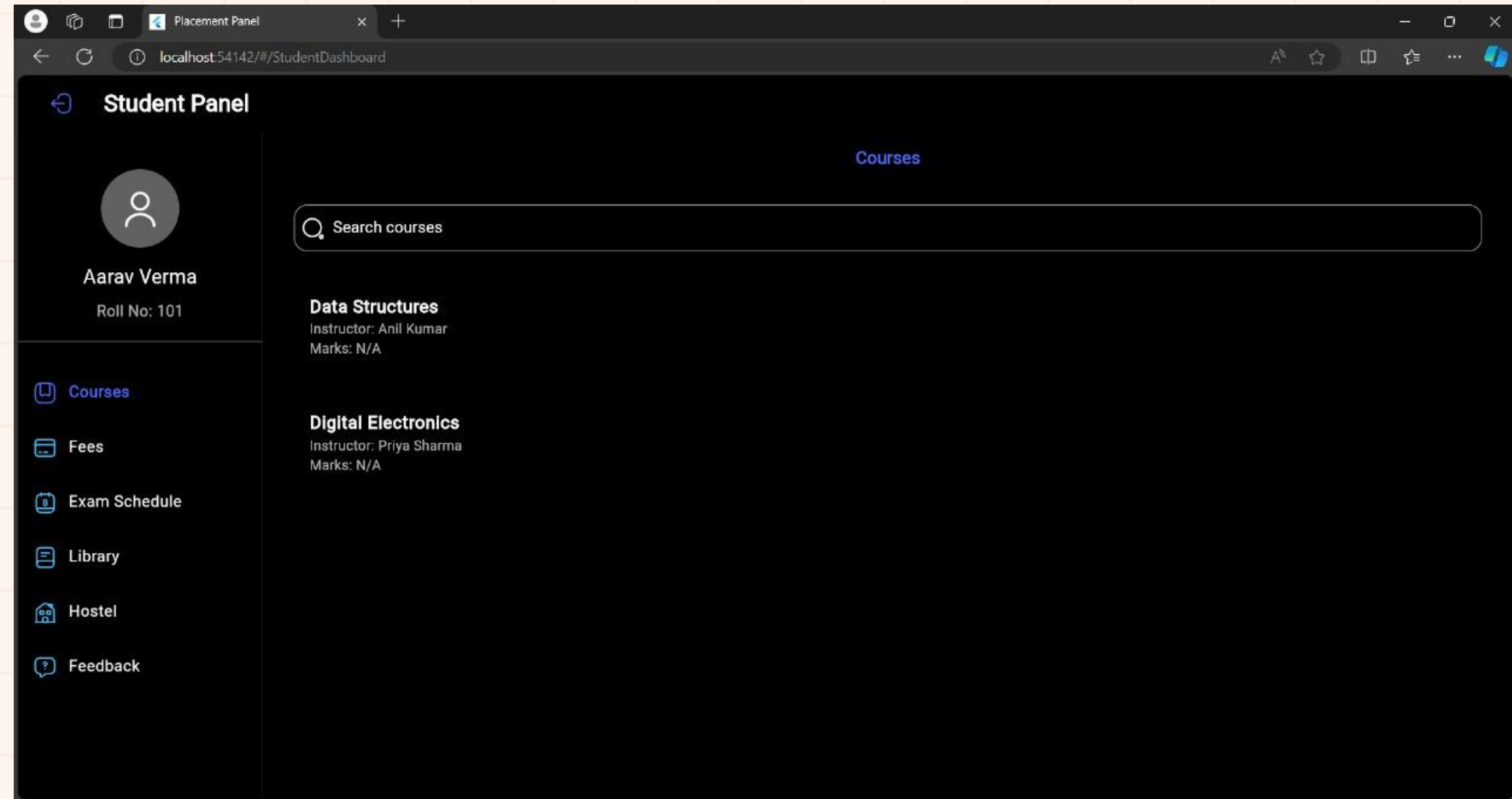- has Courses, Library and feedback management options

Browser 1 (top left)

localhost:54142/#/InstructorDashboard

Faculty Panel

Anil Kumar
ID: 101

- Courses
- Library
- Feedback

Courses

Search courses

Data Structures
Student Strength: 180

Database Management Systems
Student Strength: 0

Advanced Operating Systems
Student Strength: 0

Cyber Security
Student Strength: 0

AI for Business
Student Strength: 0

Navigation Menu

HOME   SERVICE   ABOUT US   CONTACT US

Browser 2 (right)

Placement Panel

localhost:54142/#/InstructorDashboard

Faculty Panel

Anil Kumar
ID: 101

- Courses
- Library
- Feedback

Courses

Search courses

Data Structures
Student Strength: 180

Database Management Systems
Student Strength: 0

Advanced Operating Systems
Student Strength: 0

Cyber Security
Student Strength: 0

AI for Business
Student Strength: 0

Introduction to Virtual Reality

Browser 3 (bottom left)

Placement Panel

localhost:54142/#/InstructorDashboard

Faculty Panel

Anil Kumar
ID: 101

- Courses
- Library
- Feedback

Feedback

Subject

Feedback
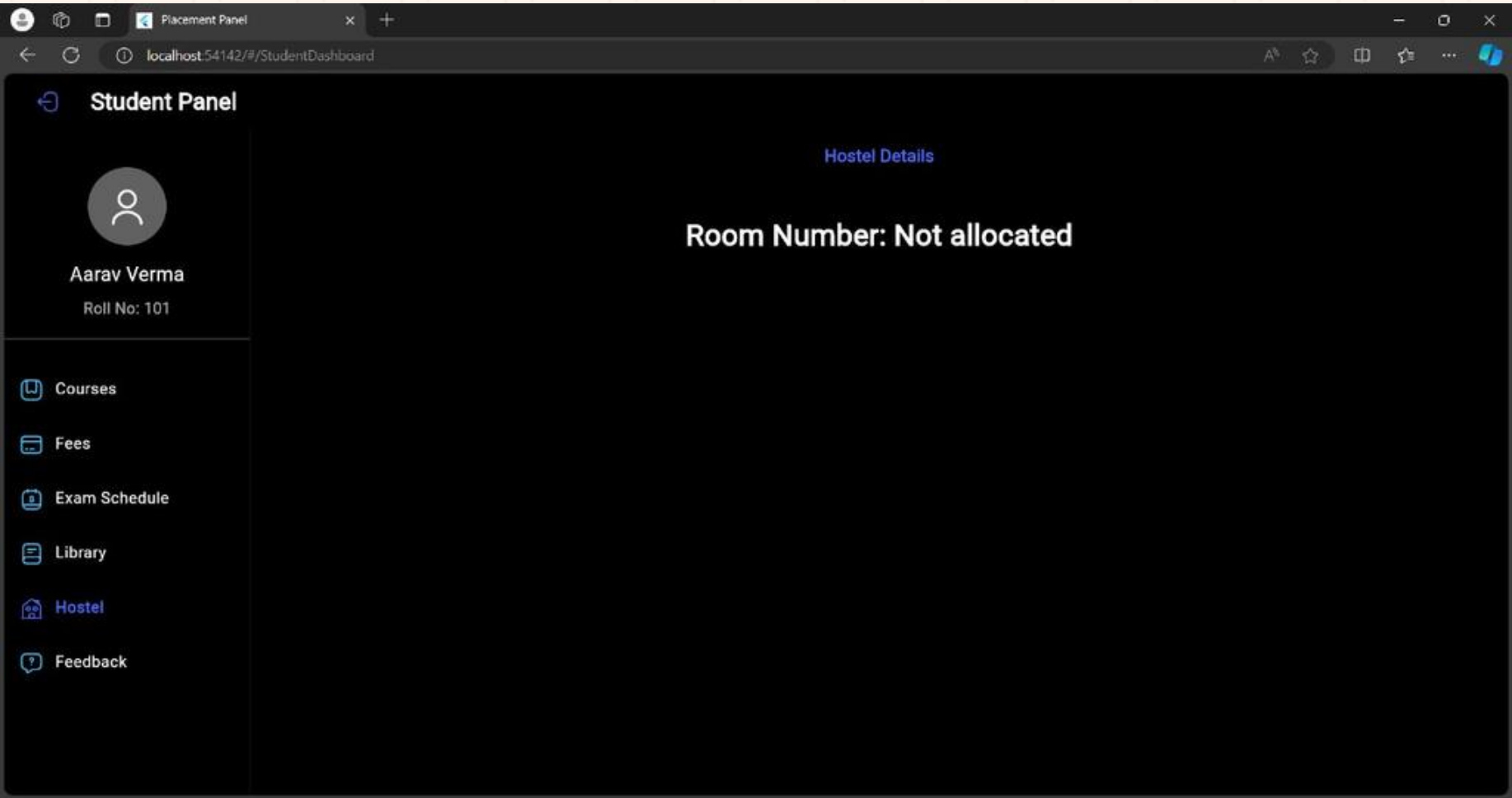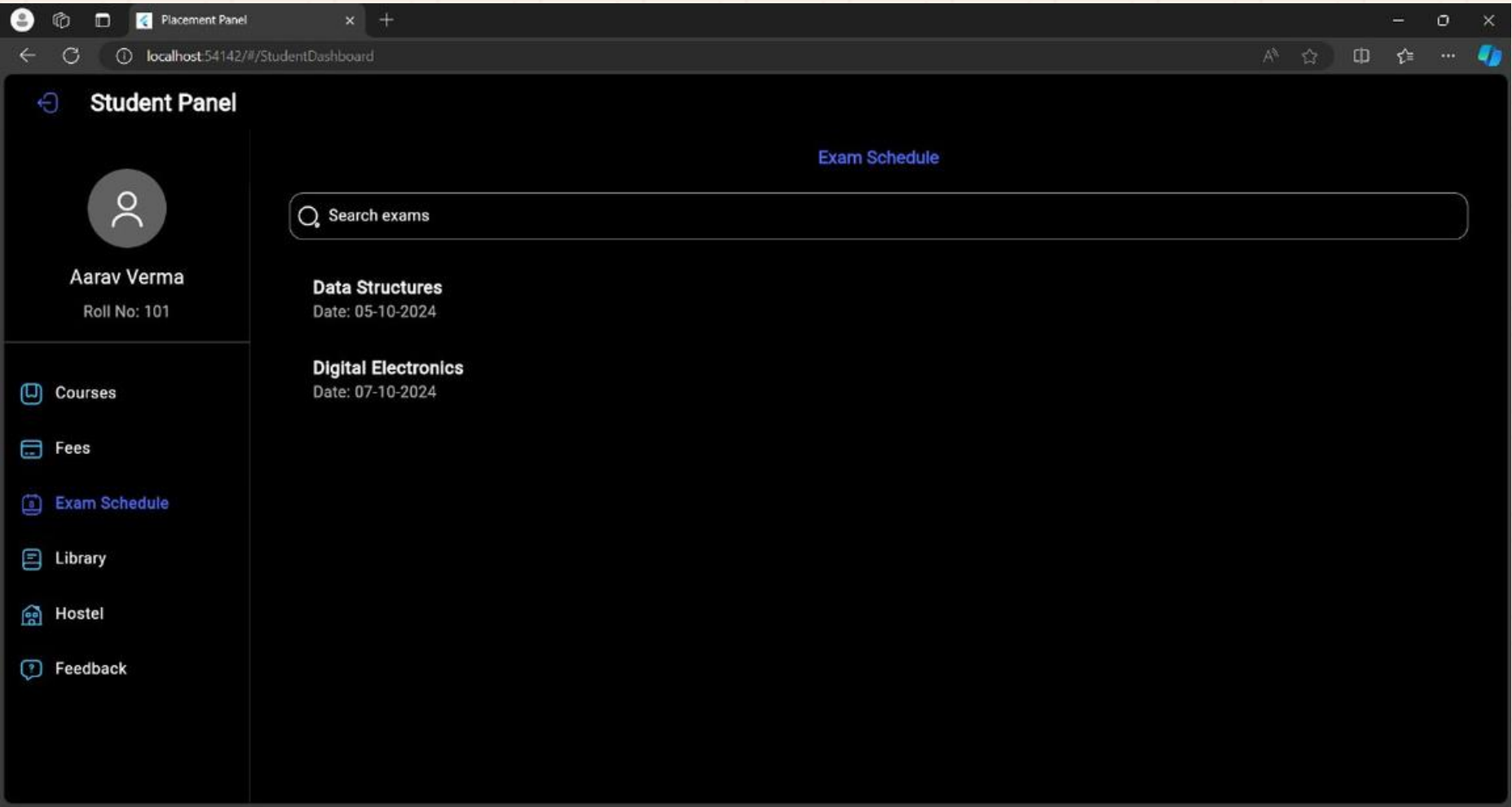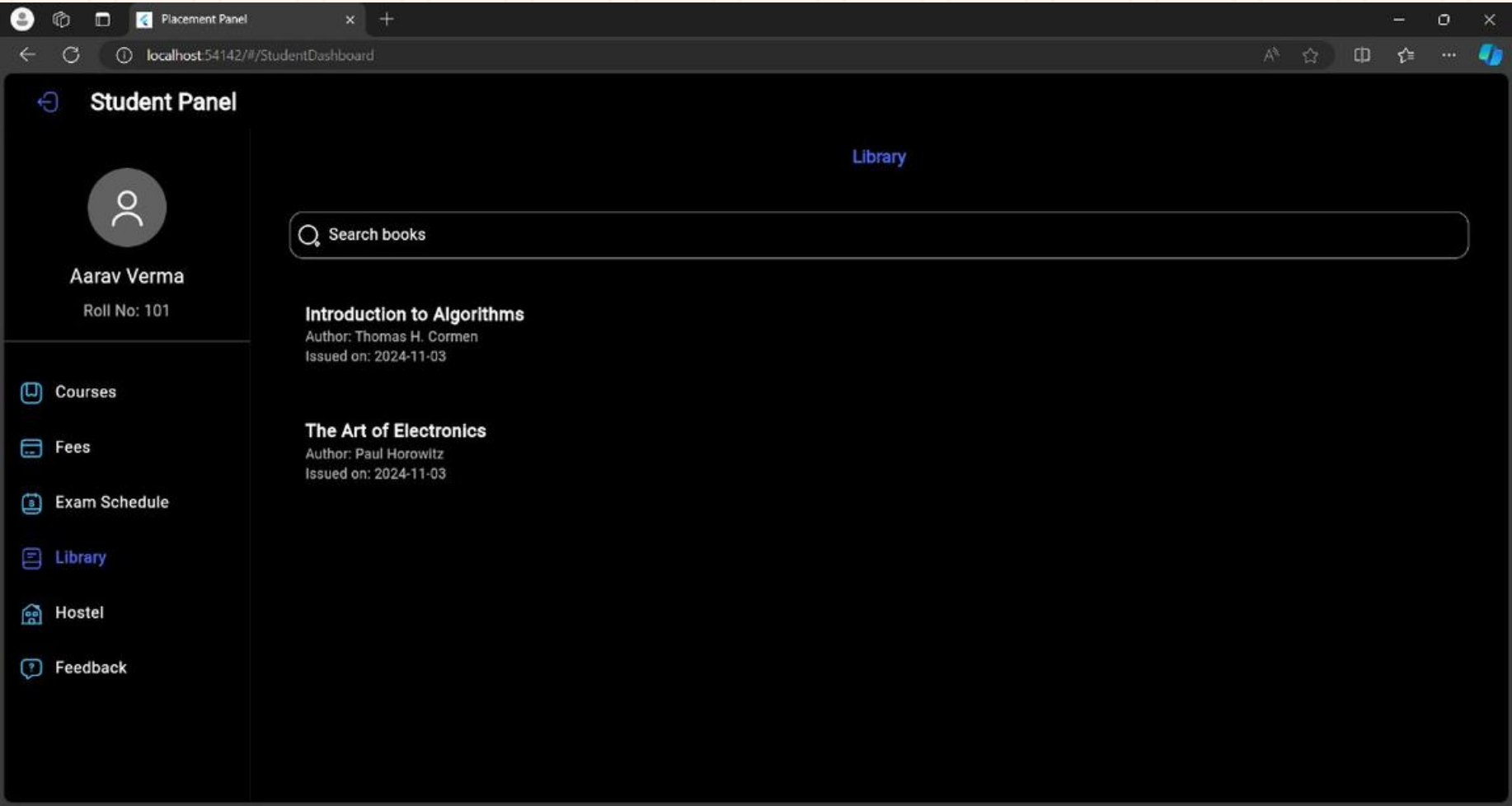
Submit

STUDENT PANEL

Overview:

Student dashboard displaying relevant information.

Key Features:

- Student's name and roll number.
- Has options like viewing of Courses, Fees, Exam Schedule, Library, Hostel, and feedback forms

Student Panel

Library

Search books

Introduction to Algorithms
Author: Thomas H. Cormen
Issued on: 2024-11-03

The Art of Electronics
Author: Paul Horowitz
Issued on: 2024-11-03

Aarav Verma
Roll No: 101

- Courses
- Fees
- Exam Schedule
- Library
- Hostel
- Feedback

Student Panel

Exam Schedule

Search exams

Data Structures
Date: 05-10-2024

Digital Electronics
Date: 07-10-2024

Aarav Verma
Roll No: 101

- Courses
- Fees
- Exam Schedule
- Library
- Hostel
- Feedback

Student Panel

Hostel Details

Room Number: Not allocated

Aarav Verma
Roll No: 101

- Courses
- Fees
- Exam Schedule
- Library
- Hostel
- Feedback

THANK YOU