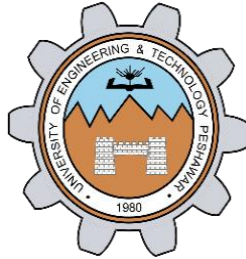


PROJECT REPORT
COURSE REGISTRATION SYSTEM



Database Management Systems Lab

Submitted By:

Naveed Ahmad(22pwcse2165)

Jamal khan(22pwcse2203)

Omer khan(22pwcse2130)

Section B

Submitted to:

Mam Sumayyea Salahudin

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*Department of Computer Systems Engineering
University of engineering and technology, Peshawar*

1. Introduction

The Course Registration System is a web-based platform that enables students to register for courses, instructors to manage their teaching schedules, and administrators to oversee academic data.

2. Objectives

- Build a digital alternative to manual course registration
- Enable real-time enrollment
- Facilitate instructor and admin access to course data
- Provide a responsive user interface

3. Tools & Technologies

- Backend: Laravel 11, MySQL
- Frontend: React.js, Axios
- Hosting: Netlify (frontend), Hostinger (backend)

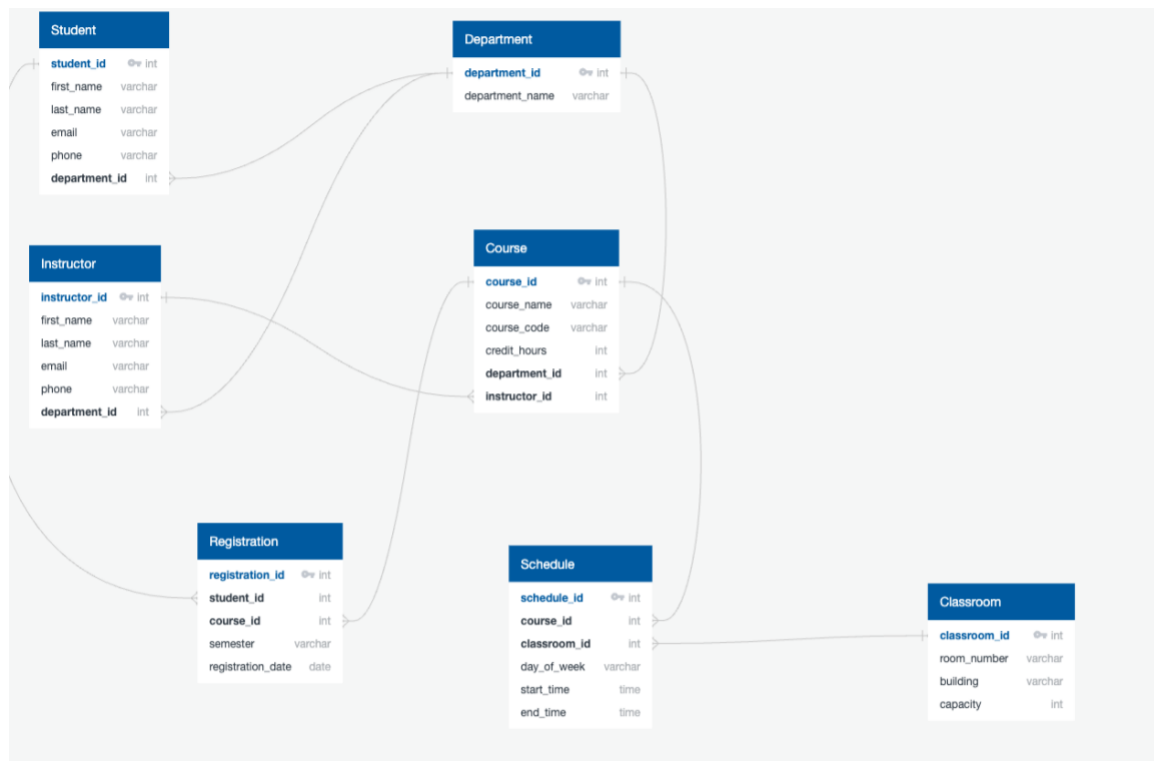
4. System Overview

- Users: Student, Instructor, Admin
- Features: Authentication, Course Enrollment, Admin Panel, RESTful API integration

5. Backend Development

- Laravel Models: Student, Instructor, Course, Enrollment, Department
- RESTful APIs using api.php
- Eloquent relationships and middleware
- Tested using Postman

6. Entity Relationship Diagram (ERD)



7. Frontend Development

- Built using React
- Pages: Home, Login, Dashboard, Course Registration
- Axios for API requests

8. Hosting & Deployment

- Frontend hosted on Netlify
- Backend hosted on Hostinger
- .env setup and CORS configured

9. Challenges Faced

- CORS handling
- Hosting Laravel on Hostinger
- State management in React
- Many-to-many data handling in Laravel

10. Conclusion

This project demonstrates how modern web technologies can be used to streamline academic systems, offering scalability and efficiency.

11. References

- <https://laravel.com/docs>
- <https://react.dev>
- <https://docs.netlify.com>
- <https://support.hostinger.com>
- <https://chat.openai.com>