Bachelor Thesis Summary

Project Title: Internship Portal Website - A Web-Based Internship Management Platform

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Abstract

This project report describes the design and development of a web-based system titled "Internship Portal Website", which aims to connect students and recent graduates with internship opportunities across various industries. The project was carried out by a team of two students as part of the final semester of the Bachelor of Computer Applications (BCA) program.

The main goal of the project was to simplify and improve the internship discovery process by building a dynamic and user-friendly platform. The system allows three roles: Admin, Company, and Student (Intern). Admins can manage courses, colleges, users, and content. Companies can post internships, shortlist candidates, and communicate with applicants. Students can register, build resumes, apply for internships, and track application status.

The platform was developed using Core PHP as the backend technology, MySQL for the database, and tools like Visual Studio Code and WAMP server for development and testing. It follows the Incremental Software Engineering Model, ensuring that each feature was developed and tested in phases. UML diagrams, ER models, and multiple DFD levels were used for structured design and documentation.

My responsibilities included:

- Designing and implementing the MySQL database schema
- Developing backend logic and query structure
- Integrating the backend with frontend modules
- Participating in system testing and report documentation

The project also includes detailed test cases, use-case diagrams, DFDs, and ER diagrams. It focuses on functionality like real-time notifications, role-based access, secure login, resume building, and inquiry handling. Through this project, I gained hands-on experience in backend development, team coordination, and understanding real-world software development processes.

This project not only helped me strengthen my programming and database skills but also inspired me to further explore the fields of data-driven applications, system design, and machine learning - which is why I am now applying for a Master's in Computer Science with a specialization in Machine Learning and Big Data.