

I learned a lot about creating software systems that are secure, scalable, and well-tested in this course. In order to manage databases and create dependable testing suites, I learnt how to integrate essential backend technologies like FastAPI, SQL Alchemy, and Pytest. The focus of the training was on clean, modular, and maintainable code writing best practices.

The User Management System project had a particularly significant influence on me since it improved my ability to create RESTful APIs, use OAuth2 for user authentication and authorization, and validate data to guarantee its integrity. Creating sophisticated features like role-based access control, email notifications, and user status updates while preserving safe and effective database interactions was one of the highlights. I improved my debugging and edge case coverage skills by creating more than 10 test cases. As my knowledge of the software development lifecycle and DevOps procedures grew, I also gained confidence in handling CI/CD pipeline problems, resolving merge conflicts, and delivering apps to DockerHub.

I was challenged by this project to use my critical thinking skills, teamwork, and practical application of theoretical information. It equipped me with the means to confidently and professionally tackle challenging software problems.

Links:

Issue 1 - <https://github.com/Jatin-903/Final/issues/1>

Issue 2 - <https://github.com/Jatin-903/Final/issues/2>

Issue 3 - <https://github.com/Jatin-903/Final/issues/3>

Issue 4 - <https://github.com/Jatin-903/Final/issues/4>

Issue 5 - <https://github.com/Jatin-903/Final/issues/5>

Tests – <https://github.com/Jatin-903/Final/tree/tests>

Feature - <https://github.com/Jatin-903/Final/tree/features>