ADDIS ABABA SCIENCES AND TECHNOLOGY UNIVERSITY

College of Mechanical and Electrical Engineering

Department of Software Engineering

Course : Advanced Programming

PROJRCT PROGRESS: ID Card Replacement System

Team 6

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Project Progress Report: Weeks 1-2

Introduction:

The ID Card Replacement System is designed to improve the overall student experience, minimize administrative workloads, and expedite the process of replacing lost or damaged ID cards for AASTU students. Our goals are to increase productivity, make the replacement process simpler, and give all stakeholders an intuitive interface.

Progress:

The project's foundation has been laid with great success over the last two weeks. We have completed the setup of the development environment, created the project structure, and started implementing the major features.

Key Accomplishments:

➢ Set up folder hierarchies and project directories for the server and client apps.
➢ Implemented database management and routing as basic server functionalities.
➢ Created controller classes to manage various system functions like payments, documents, requests, and user authentication.
➢ To represent different entities such as students, requests, documents, finance department, and ID replacement department, model classes were created.
➢ Used JavaFX to design the client application's initial user interfaces.
➢ Finished configuring the MySQL database and initialized the required tables in accordance with the project specifications.

Challenges Faced:

➢ Integration complexities between frontend and backend components.
➢ Fine-tuning database operations for optimal performance and security.
➢ Ensuring seamless communication between different modules of the system.
➢ Managing time constraints and balancing development tasks with thorough testing.

Next Steps:

➢ Continue implementing frontend functionalities for user interaction and data presentation.
➢ Enhance server capabilities to handle concurrent requests and optimize response times.
➢ Implement user authentication and access control mechanisms.
➢ Develop additional features such as appointment scheduling and status tracking.
➢ Conduct comprehensive testing to identify and resolve any bugs or issues.

Timeline Review:

All things considered, the project is moving along according to plan, notwithstanding a few small setbacks brought on by unforeseen difficulties. Nevertheless, we are sure that we can catch up and deliver by the scheduled date.

Conclusion:

To sum up, the project is off to a great start and important foundations have been set for its expansion. In spite of obstacles, the group is dedicated to providing an excellent ID card replacement system that satisfies the requirements of administrators and students at AASTU. We are sure we can succeed if we work together and are diligent going forward.