Project Charter
Student Management System
October 20th, 2025

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Executive Summary:

The Student Management System (SMS) aims to develop a digital platform that supports students in course registration and assists administrators in managing courses, classrooms, and users, thereby improving overall efficiency and management capability.

Project Goal

*SMART: **S**pecific, **M**easurable, **A**ttainable, **R**elevant, and **T**ime-bound*
- Develop a digital platform to manage courses, classrooms, users, and course registration.
- Deliver fully functional prototype with at least 90% of planned features implemented and tested.
- Use free and open-source technologies to ensure project completion within 10-11 weeks.
- Address key challenges related to course registration and academic management.
- Complete the project by the end of Week 11.

Deliverables

1. Provide backend APIs for the system.
2. Develop user-interface for both students and admins.
3. Deliver complete project documentation, including requirements and testing plan.
4. Provide deployment and operation guidelines for the system.

Business Case / Background

Why are we doing this?

Currently, students and administrators face difficulties in course registration and managing courses, classrooms, and users. To address these challenges, I have decided to develop a Student Management System that meets their needs and expectations. The purpose of this system is to improve user satisfaction while enhancing my technical knowledge and practical experience. This project also serves as an academic initiative to demonstrate practical software engineering and project management skills.

Benefits, Costs, and Budget

Benefits:
- Efficient course registration process for students.
- Improved administrative management of courses, classrooms, and users.

Costs:
- Free and accessible technologies, complimentary guideline installations and operations.

Budget needed:
- Estimated cost: $0.

Scope and Exclusion

In-Scope:
- User interfaces for students and administrators.
- Core features: course registration, login, course/classroom/user management, and personal profile viewing.
- Local database setup in docker.

Out-of-Scope:
- Product development, vendor contracts.
- Scoreboard and advanced analytics features.

Project Team

Project Leader / Developer: Nguyen Quang Bao

Measuring Success

What is acceptable:
1. At least 90% of planned features are fully implemented and tested.

2. Project completed on time within 10-11 weeks