**Exam Scheduler Project Proposal**

**Team Information**

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**Problem Description**

The current process of scheduling university exams is inefficient and prone to human errors. Manual scheduling often leads to overlapping exams, incorrect room assignments, and confusion among students and faculty. This project aims to automate and streamline the exam scheduling process, ensuring accuracy, transparency, and efficiency.

**Analysis of Existing Solutions**

**Strengths:**

* Existing systems like ExamSoft and TestWe provide automated scheduling and analytics.
* Some platforms offer integration with learning management systems (LMS).

**Weaknesses:**

* High cost of subscription services.
* Limited customization for university-specific needs.
* Complex user interfaces that require extensive training.

**Project Development Plan**

**Milestone 1 (Assignment 4): Spring Boot Project Setup**

* Initialize the Spring Boot project with necessary dependencies.
* Develop basic user authentication functionality.

**Milestone 2 (Assignment 5): Database Integration**

* Set up PostgreSQL database.
* Design database schema and implement CRUD operations for exam management.

**Milestone 3 (Assignment 6): Feature Completion and Dockerization**

* Implement full feature set (exam scheduling, room management, and notifications).
* Containerize the application using Docker.
* Write comprehensive documentation and user guide.

**Team Roles**

(To be determined during the development process)