

# Overhaul of the SRO Student Activity Request System

CMSC 128: Introduction to Software Engineering

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## Introduction

The current Student Relations Office (SRO) Student Activity Request System utilized at our institution relies heavily on Google Forms and Google Sheets to process and track student activity requests. While these tools are accessible and offer ease-of-use, they pose significant issues in security, scalability, and efficiency. Sensitive data stored on Google Sheets is vulnerable to unauthorized access, and the manual processes involved in managing requests are prone to human errors and inefficiencies.

Recognizing these challenges, our group proposes the development of a more secure and efficient web application that will replace the existing system. This overhaul will leverage a legitimate database solution using structured query language (SQL), to ensure data integrity and enhance the overall user experience for both students and administrators.

## Proposed System

Our proposed solution is a web application that is designed to address the limitations of the current system. The web app will provide a secure, efficient, and user-friendly platform for requesting or managing student activity requests. Key features of the proposed system include:

- **Secure Database Integration:** Integration of a database management system such as MySQL
- **User Authentication:** Ensure data confidentiality and security by restricting access based on user role (e.g., student, faculty)
- **Continued Support of Features from Previous System:** Integrate automated PDF generation of approved activities, e-signature based approval, and ease of submitting requests

## Goals and Objectives

The primary goals of the project are:

1. To develop a secure and effective web application for managing student activity requests.
2. To enhance the overall user experience of the system for students and administrators
3. To improve data security and integrity by replacing Google Sheets with a legitimate database

## **Conclusion**

By addressing the current shortcomings of the SRO Student Activity Request System, our proposed web application aims to significantly improve the efficiency, security, and user experience, providing a more advanced and robust system that benefits the administration and student body.