

GC Pulse

Arabe, Cloyd Matthew
Arcega, Franchesca Lei M.

Software Requirements Specification (SRS)

1. Introduction

In today's digital age, efficient communication and engagement within academic institutions play a crucial role in fostering a well-informed and active student body. **GC Pulse** is a web-based platform designed to streamline the dissemination of information related to student organizations, councils, and the Office of Student Welfare and Services (OSWS) at Gordon College.

Moreover, **GC Pulse** empowers student organizations and councils by providing **analytics dashboards** that track their engagement and interactions, allowing them to measure their impact within the college community. Through a **secure and user-friendly interface**, the web app guarantees that only authorized users can create, edit, and manage content, maintaining the credibility and reliability of the information shared.

By integrating technology into academic communications, **GC Pulse** aims to **promote transparency, efficiency, and collaboration** among students, organizations, and administrative bodies, ultimately enhancing the overall college experience.

1.1 Purpose

The primary purpose of **GC Pulse** is to serve as a **centralized digital platform** for managing and disseminating official postings related to **student organizations, councils, and the Office of Student Welfare and Services (OSWS) program** at Gordon College. This web app aims to **enhance communication, engagement, and transparency** by providing a structured and accessible way for students, faculty, and organization leaders to stay informed about important announcements, events, and opportunities.

- To improve information accessibility
- To support organization and council activities
- To streamline OSWS coordination
- To automate notifications and updates
- To provide a digital space for official document submission

By fulfilling these objectives, **GC Pulse** will serve as a **reliable, user-friendly, and efficient** tool for improving communication and engagement within Gordon College's academic and extracurricular environment.

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1.2 Target Users

- Student Organizations
- Student Councils
- Students
- Teachers
- Office of Student Welfare and Services (OSWS)

1.3 System Overview

The **GC Pulse** is a **web-based platform** designed to manage and streamline **student organization and council postings** as well as **Office of Student Welfare and Services (OSWS) appointments** at Gordon College. The system provides a **centralized hub** where students, faculty, and organization leaders can efficiently access announcements, events, and other relevant updates. This system is designed to **enhance communication, engagement, and administrative efficiency** within Gordon College, ensuring that all relevant postings and work-study processes are **accessible, organized, and secure**.

2. Functional Requirements

ID	Requirement	Description
FR-01	User Login	Users should be able to log in using email and password
FR-02	View Profile	Users can view and edit their profile information
FR-03	User Registration	New users (Students, Organization Members, OSWS) can register for an account
FR-04	Dashboard Access	Only Admins can access the dashboard

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FR-05	Post Creation	Organization members and OSWS can create new posts (Events, Announcements, News)
FR-06	Edit & Delete Posts	Organization members and OSWS can edit or delete their own posts.
FR-07	Appointment Scheduling	Organizations can request appointment to be scheduled at a future date and time
FR-08	Post Search	Users can search posts by keyword, category, or date
FR-09	Like & Comment on Posts	Users can like and comment on posts to engage in discussions
FR-10	Manage Comments	Organization Members, OSWS, and Admins can moderate and delete comments on their posts
FR-11	Receive Notifications	Users can receive system notifications for new posts(Events and Announcements, News), comments, likes
FR-12	View Analytics	Organization members and OSWS can track engagement analytics on their posts
FR-13	Role-Based Access Control	Different user roles (Student, Organization members, OSWS, Admin) have access to specific features
FR-14	Admin User Management	Admins can register/update roles to users
FR-15	Session Management	Users remain logged in until they manually log out or their session expires

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FR-16	Secure Authentication	Passwords are securely stored using hashing, and authentication is session-based
FR-17	Logout	Users can securely log out of their accounts

3. Non-Functional Requirements

ID	Requirement	Description
NFR-01	Performance	The system should load within 5 seconds
NFR-02	Security	Users' passwords should be encrypted
NFR-03	Security	Uploaded pictures should be hashed
NFR-04	Scalability	The platform should support an increasing number of users and posts without performance degradation
NFR-05	Usability	The platform should have a user-friendly and intuitive interface for all users
NFR-06	Compatibility	The system should be compatible with modern web browsers (Chrome, Firefox)

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NFR-07	Maintainability	The codebase should be modular and well-documented for easy updates and bug fixes
NFR-08	Data Integrity	The database should ensure data consistency and prevent duplicate or incorrect entries
NFR-09	Logging & Monitoring	The system should log user activities and errors for troubleshooting and security auditing
NFR-010	Role-Based Access Control	Different users should only have access to authorized sections of the system
NFR-11	Responsiveness	The platform should be fully responsive and accessible on desktops, tablets, and mobile devices
NFR-12	Legal Compliance	The system should comply with relevant data privacy regulations
NFR-13	Error Handling	The system should gracefully handle errors and provide meaningful messages to users
NFR-14	Concurrency Handling	The system should support multiple users accessing and interacting with it simultaneously without issues

4. System Constraints

- Must be a web-based application.
- Should work on Chrome and Firefox.
- Should work in Windows OS