Software Requirements Specification

for

Online Class Scheduler

Version 1.0

Prepared by

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Revisions

| Version | Primary Author(s) | Description of Version | Date Completed |
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# 

# Introduction

*<TO DO: Please provide a brief introduction to your project and a brief overview of what the reader will find in this section.>*

## Document Purpose

This document specifies the software requirements for the educational platform designed to facilitate online course enrollment and management. It outlines the functional and non-functional requirements, intended users, system features, and constraints.

## Product Scope

The platform aims to provide an intuitive interface for student registration, course enrollment, and management, supporting an educational structure divided into three semesters annually. It facilitates unique user identification, profile management, course listing, enrollment limits, waiting lists, and enrollment modification capabilities.

# Overall Description

## Product Overview

The system is an educational platform designed to enhance the accessibility and management of online courses for students. It simplifies the process of new user registration, course browsing, and enrollment, including waitlist management for full courses.

## Product Functionality

* User account and profile creation
* Unique ID and password for each user
* Course listing by semester
* Enrollment limits per course with waiting list functionality
* Enrollment management by users

## Design and Implementation Constraints

* The platform must be web-based, accessible through standard web browsers.
* It must support a responsive design for accessibility on various devices.
* Use of secure authentication and data protection methods is mandatory.

## Assumptions and Dependencies

* It is assumed that users have internet access and an email account for registration.
* The platform's operation depends on the reliability of the hosting server and database system.

# Specific Requirements

## External Interface Requirements

### User Interfaces

* The platform will feature an intuitive web interface for registration, login, course browsing, and enrollment.
* Information required for new user profiles includes name, phone, email, and optional additional details.

## Functional Requirements

### F1: The system shall allow new users to register by creating a unique ID and password.

### F2: The system shall prevent the use of a duplicate ID for registration.

### F3: The system shall enable users to log in with their ID and password.

### F4: The system shall list available courses for each semester, indicating enrollment limits.

### F5: The system shall enable users to enroll in courses, add themselves to waitlists, and manage their enrollments.

## Use Case Model

TO DO: Provide a use case diagram that will encapsulate the entire system and all actors.

# Other Non-functional Requirements

## Performance Requirements

The system should be capable of handling a large number of simultaneous user sessions without significant degradation in performance.

## Safety and Security Requirements

* The system must use HTTPS for secure communication.
* Passwords should be stored using secure hashing algorithms.

# GitHub

## A screenshot of a computer Description automatically generated

https://github.com/achambers2010/CST499

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