Software Requirements Specification

for

Student Account Portal

Version 2.0

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**Introduction**

## Purpose

This SRS document aims to identify a solution to simplify student enrollment and allow students to manage their class schedules for current and upcoming semesters. The student registration is a system meant to address these issues specifically. Students would be able to utilize these systems to register here utilizing their current student ID and a unique password or allow them to register for an account that will be forwarded to admissions for review. Once registered, they will be able to log into the school portal and view their current class schedule. The student portal will also be utilized for students to register for upcoming semester classes or make any changes to current classes as needed. In this document, we will cover the necessary requirements identified to successfully implement this system.

## Intended Audience

This SRS document is intended for a number of different users, such as developers looking to gain insight into the functional and non-functional requirements in developing a student portal for a college. For project stakeholders to review the identified system requirements and confirm they meet with their desired outcome or be able to request alterations. Lastly, project managers are looking for pointers of what should be tracked in the development of the new site.

## Product Scope

The software that is being developed will provide an online class management system for all currently enrolled students. This will be an extensive project that will require the implementation of the student database for the system to be able to pull student data. The class schedule and availability database will also need to be tied to the new system, and the availability will also be modifiable by the newly created system. This will allow the class availability to be updated when a student either drops a class or enrolls. The student database will need to be modified to add the student user id or password or the newly created one. Additionally, a new website will need to be created that displays the school logo, links that lead the user to different pages about school, registration info, and sign-in options that will confirm user name and password from the student and faculty database allow logins.

# Overall Description

## Product Perspective

Currently, the school manages all the student information via paperwork that is then input into the database manually. This is a tedious task that requires a whole position just for entering new student data, making changes to existing student data, and maintaining the class availability. Additionally, any students looking to make changes to their class schedule or need to see the class availability for the following semester requires students to meet with an admissions counselor, which ends up creating more paperwork that needs to be entered into the database. This system will aim to reduce the manual data entry, with new students registering online, the system automatically saves the user information into the student database, as well as reducing the need to meet with admissions counselors for changes to class schedules.

## Product Functions

**Functional Requirements**

**Display**

* Home page should display the school name and logo
* Be easy to navigate with easy to view links
* Provide a option for user login
* Provide an option for user registration

**New User Registration**

* **Existing Students**
  + User should be able to register with current student ID
  + User inputted SSN should match up with current student ID
  + User should input new strong password
* **New Students**
  + Request entire user information such as Name, Address, SSN, Phone
  + Display a thank you page and account review status
  + New student info should be sent to the student admission team

**User Account**

* Existing students should be able to view and modify certain details such as personal email, full name and phone.
* Display current class schedules
* Display an option to modify class schedules

**Course Schedule**

* Student should be able to view current class schedule
* Allow users to modify class current classes
  + Drop class can be done up to the last week of the course
  + Make changes
* Adding new classes
  + Display class schedule for following semester
  + Student can select which class to enroll in
  + If class is full add option to join wait list

**Non Functional Requirements**

**Display**

* Web page should load main page within 5 seconds
* All links should load withing 3 seconds of being selected
* Any page content should load in withing at the first 2 seconds

**Account registration**

* **Existing Students**
  + Cross check database for student ID and SSN
  + Check to see if account marked as created, and password assigned
  + Require strong password for account creation
  + Store newly created password and set account created to True
* **New Students**
  + Capture student information
  + Load ThankyouRegistation.php
  + Captured student ID should be emailed to the admissions email directory

**Account management**

* Pole data from student database
* For user changes allow only Name, Address, and phone then update database
* Prevent user from deleting accounts

**Class Schedule**

* User class schedule should be poled from database
* Check to see if requirements are met to make changes
* For new classes
  + Selected classes add user to class and take one seat in class
  + If user opts to join wait list, add user to wait list at bottom of list and display a notice of being on waitlist

## User Classes and Characteristics

The system will a combination of systems that will be developed in to work together. On the backend, a new SQL server will be implemented to host the new database that will be created and migrate the existing databases for students, staff, and classes over to the new system. On the front end, the main website will be developed utilizing PHP and javascript programming languages. These languages can be programmed to connect the new database to pull data and modify it as needed.

**References**

Kruger, N (2018, October 23). How to Write a Software Requirements Specification (SRS Document)

. Perforce. Retrieved October 19, 2021, from www.perforce.com/blog/alm/how-write-software-requirements-specification-srs-document

Tsui, F., Karam, O., & Bernal, B. (2018). [Essentials of software engineering](https://ashford.instructure.com/courses/92371/modules/items/4675897) (4th ed.). Jones & Bartlett Learning.