SRS Document Development

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Adrian Lopez | 5/16/2022 | New requirements | 1.1 |
| Adrian Lopez | 6/13/2022 | Modify requirements | 1.2 |

# Introduction

## Purpose

The purpose of the software is to create a webpage where students create their registration and create their profile for school. Once they have created their profile, they will be able to sign up for courses as well as drop any course that is assign to them. If the course is full any students after will be on a waiting list that when a student drops the course a student from the waiting list will be allowed to enter the course. The version to the software is 1.1 as it is the beginning phases.

## Document Conventions

The SRS document is written in Times New Roman with sections being bolded and a size font of 18. There are subsections that are also Times New Roman with a font size of 14. The description under the subsection is also Times New Roman with a font size of 12.

## Intended Audience and Reading Suggestions

Developers will create the code for the software and will work with the testers to test the software. Project managers will make sure the project is meeting its milestone and will communicate with the stakeholders on the progression of the project. Users will review the software to verify the software is working as it should. Testers will check the software for any bugs or issues that the software might have before going to the users and implementing the software. Throughout this document it will provide overall description of the functions and operating environment as well as external interfaces and system features.

## Product Scope

The software should for new user to register as well as for existing users to access their profile and select courses as well as drop any courses that are assign to the user. The purpose of the system is to allow users to enroll in different courses.

# Overall Description

## Product Perspective

The software for enrollment will be a new software to the new collage for which it is being built.

## Product Functions

## Diagram Description automatically generated

## User Classes and Characteristics

There will be three users class for the software. First class is the students users. The students users will have access to the different courses that are listed in the software. The second class is the administration. The administration will have access to post the courses that are offer for the semesters. The third class is security. Security will have access to make modification to the interface, be able to make upgrades to the software, and add or remove items from the software as well as reset passwords for users.

## Operating Environment

The operating system will be web based so that users can access the software from any computer. It will also have a graphical user interface (GUI) in which the users will be able to input information.

## Design and Implementation Constraints

Developers will have to maintain the software after it has been implemented for 5 years. After the five years the company will be responsible for maintaining the software themselves.

## User Documentation

An electronic manual will be given to the company that will be produce by the developers. An electronic manual will be implemented into the software that can be access by going to the help icon in the GUI that can be access by the seller and buyers and can be modify by the developers as needed.

## Assumptions and Dependencies

Modification can occur to the SRS as stakeholders see appropriate for the software and the organization.

# External Interface Requirements

## User Interfaces

The interface will have the option to Login or Register if the student has not register yet. Once the students select login, they will be prompts to fill out the mandatory fields such as User ID and Passwords then they will have to select the login button. When the student selects register, they will be prompt to create a new unique User ID and a password that is at least 8 characters long. Once they are register the students will be able to select the courses that they want to attend and select enroll button. If the course is full the system will notify the student and they will have the option to be on the waiting list. If a student drops a class, the system will enroll the next student that is on the waiting list.

## Hardware Interfaces

The types of devices that will be using the software are laptops/PC, Phones, and tablets or any other device that can connect to the world wide web.

## Software Interfaces

The software will be connected to the school database. Having the database in site it helps to maintain the database up to date. It also helps to solve any issues that it might have with processing the data. There will also be a database that will be for the courses that will be provided by the school. Once the courses are full another database will take the waiting list that is composed of students waiting for a specific course to open.

## Communications Interfaces

The software will be connected to the World Wide Web using HTTP. The database will be in phpMyAdmin which will contain the students information, course information, and waiting list information. The students that login will have an encrypted password that will prevent any hackers from going into the system and corrupting their profiles well as the software. The software will have a backup in case there happens to the file that is being used in production.

# System Features

User will be able to narrow down their courses to enable them to select the class that they choose to select from the drop-down list. The user will be able to select different courses from the list for the specific degree that they want to pursue. User will be able to add and drop courses when they login to their account. The user will be able to see their email, address, phone number, first name and last name as well as the courses that are assign to them.

# Other Nonfunctional Requirements

## Performance Requirements

The software must have a near real time indexing and search (NRT). An NRT is when an item is updated immediately into the system, and it seen right away by the users. As soon as they add a course to their profile the website will add the calculate the maximum amount that are allowed for that course.

## Safety Requirements

There will be a backup for the software to ensure that there is no data lost in case that the software is taken down. There will also be a firewall to prevent any malicious software that could cause harm to the software.

## Security Requirements

The password of the users will be encrypted to ensure that their account is private. The password will require at least seven charters to ensure that it is highly secure.

## Software Quality Attributes

Courses and student that are added must be displayed in real time meaning they are to be displayed for the university to see as soon as they are added. If any courses are on the maximum amount of student allowed the software should notify the person and add them to the waiting list right away in real time.

## Business Rules

Developers will right the code to the software, and they must also test the code that they are writing. There will also be testers that will test the software to verify that everything is working as it is specified in the requirements as it should. Stakeholders will review the documents to verify the information is correct and is to notify the project manager of any changes that are to occur in the requirements. Project manager will keep the project moving into the different life cycle in which it moves and will notify the responsible person of any changes that will occur to the project.