Software Requirements Specification

for

Student Information System

Version 1.0 approved

Prepared by Brandyn Tweedly

University of Arizona Global Campus

June 20, 2022

1. Introduction

1.1 Purpose

This product is being designed for the University of Arizona Global Campus; the product that has been requested is a Student Information System (SIS) component for online course scheduling.

1.2 Product Scope

The scope of this product is to allow students at the University of Arizona Global Campus to log in to an online portal that allows for class registration, dropping, and indexing, and displays relevant account information pertaining to that student.

2. Overall Description

2.1 Product Perspective

This is a new system for the university that will connect to a database that contains student information and course information.

2.2 Product Functions

- New user registration
  - Unique identities
- User Profile
  - Student ID, Name, Phone, Email, Address
- Course offerings and scheduling
- Course enrollment

2.3 User Classes and Characteristics

- Student()
  - PII (ID, name, phone, address, etc.)
- Course()
  - Name
  - Department
  - Schedule

2.4 Operating Environment

This software will operate on any modern browser such as Chrome or Safari as a web application, not standalone software.

2.5 Design and Implementation Constraints

This project is to be built with PHP and will be hosted on an Apache server with the use of XAMPP and myphpadmin.

2.6 User Documentation

Instructions for users will be outlined in applicable web pages.

3. External Interface Requirements

3.1 User Interfaces

All pages will follow suit with the same nav bar, located at the top of the page, and the same font families and styles throughout the application for uniformity.

3.2 Hardware Interfaces

This student information system will interact with any modern hardware based on low latency minimal specifications as it pertains to hardware.

3.3 Software Interfaces

This product will be hosted on an Apache Server through XAMPP Control Panel v3.3.0. The XAMPP configuration will run this program on a local server, 127.0.0.0. A MySQL database will be hosted on the same local server through phpMyAdmin. The connection string between the Apache server and the MySQL server will be contained in a config.php file that will be accessible through GitHub.

3.4 Communications Interfaces

Communication standards will follow an HTTP protocol, based on the development and hosting of this project in a local environment.

4. System Features

4.1 User Registration

4.1.1 Description and Priority

High Priority. This function will allow users to register for the website as well as create and account that contains their personal information and any saved class schedules that are associated with their user account.

4.1.2 Stimulus/Response Sequences

User is not already logged in: User will select the “Register Account” button. User will be redirected to account create page that will house multiple text fields for data collection. After data has been entered, user will select “Register” and be redirected to their account’s profile page.

4.1.3 Functional Requirements

Input fields, buttons to send entered data, database connection, confirmation message after receipt of data

4.2 Course Selection/Schedule

4.2.1 Description and Priority

High Priority. This collection of functions will contain all information pertinent to a given course. Course name, code, description, and dates will be present for each course. This information will be stored in the database and displayed for students who are logged in and navigating the Course Selection web page.

4.1.2 Stimulus/Response Sequences

User is already logged in. From user profile page, user selects the Course Schedule navigation menu button, or the schedule courses that is present in the Course Schedule table on the user profile page.

4.1.3 Functional Requirements

Input fields for indexing and searching courses. Button for adding class to schedule, or navigating schedule based on semester.