Software Requirements Document for

COURSE REGISTRATION APP

CS114 Introduction to Software Engineering

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Table of Contents

[Revision History 3](#_Toc35542547)

[1 Introduction 3](#_Toc35542548)

[1.1 Project Scope and Purpose 3](#_Toc35542549)

[1.2 Intended Audience 3](#_Toc35542550)

[2 Description 3](#_Toc35542551)

[2.1 Product Description 3](#_Toc35542552)

[2.2 Operating Environment 3](#_Toc35542553)

[2.3 User Classes 3](#_Toc35542554)

[2.3.1 Class 1 3](#_Toc35542555)

[2.3.2 Class 2 3](#_Toc35542556)

[2.3.3 Class 3 3](#_Toc35542557)

[3 Features 3](#_Toc35542558)

[3.1 Feature 1 3](#_Toc35542559)

[3.2 Feature 2 4](#_Toc35542560)

[3.3 Feature 3 4](#_Toc35542561)

[4 Interface 4](#_Toc35542562)

[4.1 User Interface 4](#_Toc35542563)

[4.2 Hardware Interface 4](#_Toc35542564)

[4.3 Software Interface 4](#_Toc35542565)

[5 Other Requirements 4](#_Toc35542566)

# Revision History

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| --- | --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Responsible Person** | **Version** |
|  |  |  |  |  |
|  |  |  |  |  |

# 1 Introduction

## 1.1 Project Scope and Purpose

The purpose of our application is to provide assistance in regard to course scheduling and make the registration process simpler.

## 1.2 Intended Audience

The intended audience is mainly SNHU students who need to register for classes. Faculty may also benefit from the additional/future functionality planned.

# 2 Description

## 2.1 Product Description

The project will help make the course registration process easier for students. The main function is to provide possible schedule options, given the days times of course sections available. Other functionality may include providing the easiest minor to get given the courses already taken, determining what courses to take next semester to make sure course prerequisites don’t hold-up future course flow. Faculty utilities may include planning course sections, professor, meeting times and places.

## 2.2 Operating Environment

Target platform is Windows executable; development environment will be C# WinForms.

## 2.3 User Classes

### 2.3.1 Class 1

<give a list of classes that you will be designing with methods and attributes. At this point the list does not have to be exhaustive. This is to prompt you to think about your project. It will change as you are coding.>

Course class: will encapsulate data for an individual course section. Attributes will include multiple CourseBlocks to store the times a course meets, string CourseNumber, etc.

### 2.3.2 Class 2

CourseBlock class: a custom data type for when a course section meets, without regard to date (just day of the week). Will use built in DateTime class. May be obsolete if DateTime class has this functionality available.

### 2.3.3 Class 3

CourseSchedule class: a class to encapsulate data about 1 possible course schedule.

### [2.3.4 Class 4]

SchedulerApp class: a class to encapsulate all data and methods used for the course scheduler app. Will include attributes like List of type Schedule

# 3 Features

## 3.1 Feature 1

<Substitute the name of the feature>

One of the features will be a student can input there SNHU information and the classes they need to take for the next semester will be outputted. The purpose of this is so students can find which classes they need to take for the next semester.

## 3.2 Feature 2

The second feature will be once the program decides which classes will be needed it will configure the classes by day and time and give the students multiple options of schedules to choose from. The purpose of this is for students to be able to choose the schedule that works best for them.

## 3.3 Feature 3

The third feature will be using your major to find a minor that you can get by taking the least possible number of extra classes. The purpose of this is to help students get the most out of their time at SNHU.

# 4 Interface

## 4.1 User Interface

<How are users going to interact with the software: graphical, web, command line?>

The software will be graphical UI, and that is how the users will interact.

## 4.2 Hardware Interface

<What hardware is needed>

The hardware that will be needed is fkr hardware such as a PC with minimal ram and cpu needed.

## 

## 4.3 Software Interface

<What software is going to be used>

The software that will be used is Windows OS.

# 5 Other Requirements

<Anything you need to add such as security considerations, connectivity and other>

We will need to use data ac=question for this project because we will need to be able to pull data from SNHU to figure out which classes will be needed and what times they will be running.