Course Enrollment

Window Application

April 9th, 2022

PoKai Huang 000429977

# **Contents**

[Contents 2](#_Toc97364728)

[1. Introduction 3](#_Toc97364729)

[1.1 Project Overview 3](#_Toc97364730)

[1.2 Project Goals and Objectives 3](#_Toc97364731)

[2. General Design Constraints 3](#_Toc97364732)

[2.1 Software Environment 3](#_Toc97364733)

[2.2 User Need 3](#_Toc97364734)

[3. Non-functional Requirement 4](#_Toc97364735)

[3.1 Operational Requirements 4](#_Toc97364736)

[3.2 Performance Requirements 4](#_Toc97364737)

[4. Functional Requirement 4](#_Toc97364738)

[4.1 Application Overview 4](#_Toc97364739)

# 1. Introduction

## 1.1 Project Overview

This document presents a detail description of the Course Enrollment WinApp. It will explain the purpose and features of the application, the interfaces and what this app will do, the constraints under which it must operate and how Course Enrollment WinApp will react to external stimuli. This document is intended for both the stakeholders and the developers of the Course Enrollment WinApp and will be proposed to our course instructor George for its approval.

## 1.2 Project Goals and Objectives

In this project, our team want to create a windows application named Course Enrollment. Course Enrollment will be designed to helps users to manage their class, course, and view their validity of course next term. Users can easily manage the student and courses. Moreover, user can easily view how many course the student can take.

There are other project management applications in the market, but most of them demand a heavy monetary subscription. We want to make our project management application free and friendly to our users.

# 2. General Design Constraints

## 2.1 Software Environment

We will use the Visual Studio 2019 to develop the application for this project. We aim to design our Course Enrollment WinApp by using WinUI and run-on Window device.

## 2.2 User Need

Users need an application that can add students, courses and manage student to add the proper course. For courses, some courses have prerequisites to sign up. For student, some student needs different courses to choose after first semester.

# 3. Non-functional Requirement

## 3.1 Operational Requirements

The application will run simple, there won’t be any login just launch the app then will start it.

This application will need internet access at minimum 3G speed to save the data.

Overall, this app will be easy as most users are already familiar with management systems.

## 3.2 Performance Requirements

* Users will be able to access their account 99% of the time without failure.
* For better use of this application, it will be recommended that users should try to use it solo at first (by assigning tasks to themselves) than working in a group.
* The application is user friendly and can be used by different aged groups for different tasks.

## 3.3 Security

Due to the time limits, our project hasn’t set up any security system to protect the app. We will keep working on it once we have more time on it.

# 4. Functional Requirement

## 4.1 Application Overview

* User can add student (Done in Microsoft Azure database)
* User can add course (Done in Microsoft Azure database)
* User can find student by name
* User can manage student’s scores for each course (Done in Microsoft Azure database)
* User can manage course’s requirement (Done in Microsoft Azure database)
* User can add courses prerequisite (Done in Microsoft Azure database)
* User can view the course suggestion feature for a given student and a given year/term
* Output of the system

