Business Requirements Document

Student Enrollment System

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# Executive Summary

The aim of this project is to create a system that students can use to search for and select which classes they wish to enroll for a given semester.

# Project Description

The proposed project is an MVC web application with a database containing all pertinent information regarding the subjects available for students to take, from their schedule, class size, and corresponding course.

# Project Scope

The proposed system will have the following functions and features:

## In Scope

The following areas are in the scope for this project:

General Functions and Configurations

* Login/Logout
  + Two different user types: Admin and Student
* Menu Navigation
  + Menu items change depending on the user type
* Database
  + Contains the following tables
    - Tables pertaining to user information
    - Tables for relevant subject information (faculty members, section codes, courses, departments)
    - Table for tracking student’s enrolled subjects

User Role: Admin

* Premade Admin Account
* Manage Department entity
  + Create Department
  + Update Department
  + Delete Department
  + View Department/s
* Manage Course entity
  + Create Course
  + Update Course
  + Delete Course
  + View Course/s
* Manage Faculty entity
  + Create Faculty
  + Update Faculty
  + Delete Faculty
  + View Faculty
* Manage Subject entity
  + Create Subject
  + Update Subject
  + Delete Subject
  + View Subject/s
* Manage Student Accounts
  + Create User
  + Update User
  + Delete User
  + View User

User Role: Student

* Manage Enrolled Subjects
  + View Subjects/s
  + Enroll Subject
  + Drop Subject
  + View Enrolled Subject/s

Web APIs

* View Subject list
  + Full list
  + By course
  + By schedule
  + By subject ID
* View Enrolled Subjects
  + Login authorization
  + Admin: view by student email address
  + Student: view own subject list

## Out of Scope

The following areas are out of scope for this project:

* Any functions that would pertain to steps prior to class selection (e.g. pre-enlistment advisement)
* Any functions pertaining to processes after class selection (e.g. tuition calculation)

# Current Process

Previously seen solutions were outsourced third party applications with poor track record in terms of performance and unappealing user experience. The aim is to deliver a proof of concept that a more usable application can be developed.

# Functional Requirements

## Priority

The requirements in this document are divided into the following categories:

Admin Functions

|  |  |  |
| --- | --- | --- |
| **Item** | **Rating** | **Description** |
| Login/Logout | High | User will be able to login with their provisioned account details. |
| Department Functions | High | UI and backend logic for managing the Department entity |
| Course Functions | High | UI and backend logic for managing the Course entity |
| Faculty Functions | High | UI and backend logic for managing the Faculty entity |
| Subject Functions | High | UI and backend logic for managing the Subject entity |

Student Functions

|  |  |  |
| --- | --- | --- |
| **Item** | Rating | Description |
| Registration | High | User will be able to create an account to access the system with |
| Login/Logout | High | User will be able to login with their specified account details. |
| Enrollment Functions | High | UI and backend logic for managing the student’s chosen subjects |

Web APIs

|  |  |  |
| --- | --- | --- |
| **Item** | Rating | Description |
| Subject API | Medium | API for extracting subject information, for potential use by external applications |
| Enrollment API | Medium | API for extracting a student’s enrolment information, for potential use by external applications |

# Glossary

|  |  |
| --- | --- |
| **Term** | **Explanation** |
|  |  |
|  |  |
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# References

|  |  |
| --- | --- |
| **Name** | **Link** |
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# Appendix

*This section may include any other information that does not fit in the document above. This may include:*

* *Details of the processes*
* *Analysis of existing process and benefits for the Business Drivers section.*
* *Any other information you might need*

*Beware of overloading this document with information. Preferably, any extra documents should be created separately and linked to, rather than embedding, as it is better for file sizes and version control.*

# Document History

*This section details the history of the document at each version. It’s good to know what has changed in each version, by who, and when it happened.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Changes** | **Author** |
| 0.1 | 03/03/2023 |  | Reddy |
| 0.3 |  |  |  |
| 0.4 |  |  |  |
| 0.5 |  |  |  |
|  |  |  |  |