

# BBM473 Project - Group 2

## Course Enrollment System

### Phase 1 Report

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## Introduction

In this phase of our project, we developed a simple desktop application for our course registration system. We use PyQt5 for the UI, and MySQL as our database. We wrote various sql queries and functions. We also used views, stored procedures and triggers we implemented earlier.

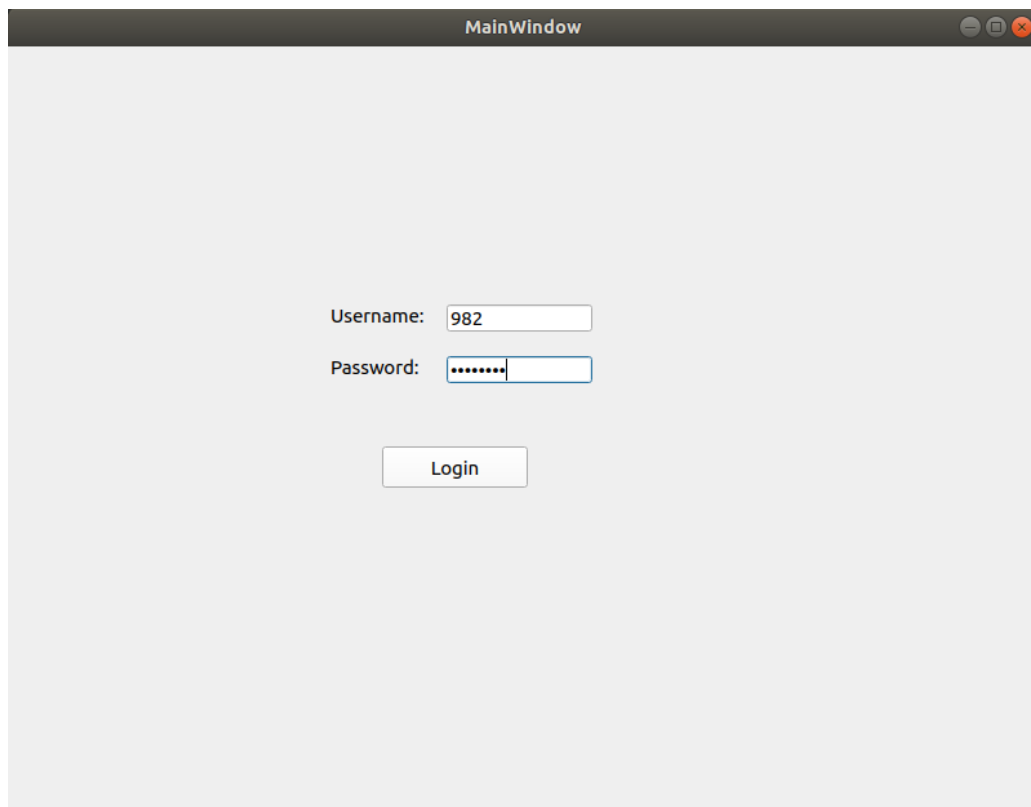
## Our Desktop Application

Our code folder consists .ui and .py files. You will need PyQt5 and a internet connection to run our app successfully, since our database is in a server.

To run our application, run:

```
python3 main.py
```

And the login screen will appear:



In this demo, we will use two users for a student and an admin.

**Student credentials:** 982 – meric123

**Admin credentials:** 1 – kaan123

## 1. Student View

In the student view, the student can see their general information and his/her remaining credit. He/she can also see the classes they currently enrolled. The student should press “Refresh” after enroll, drop and section update operations to see updated information.

The screenshot shows a window titled "MainWindow" with a light gray background. On the left side, there are four text boxes containing the following information: "Ayça Meriç ÇELİK", "982", "Computer Engineering", and "Remaining Credit: 11". To the right of these boxes is a "Refresh" button. Below the text boxes are three buttons: "Enroll to Class", "Drop Class", and "Update Section". On the right side of the window, there is a section titled "Classes" which contains a table of enrolled classes.

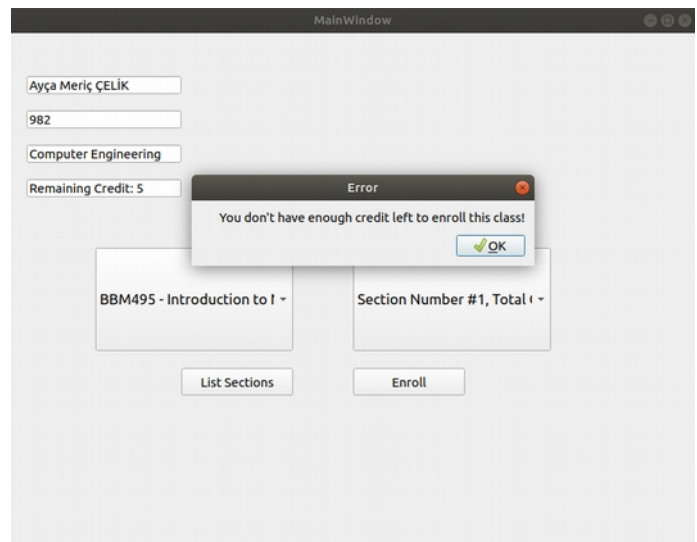
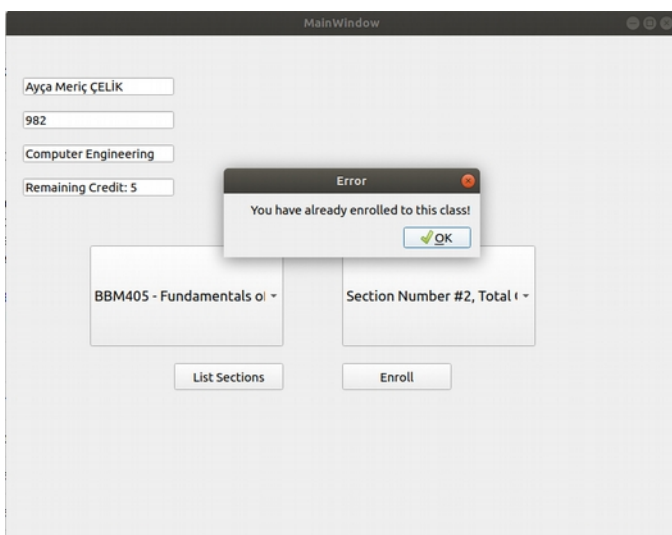
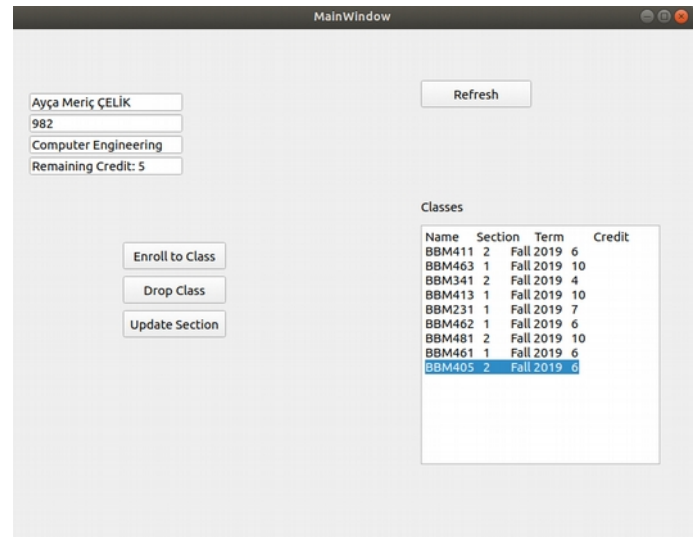
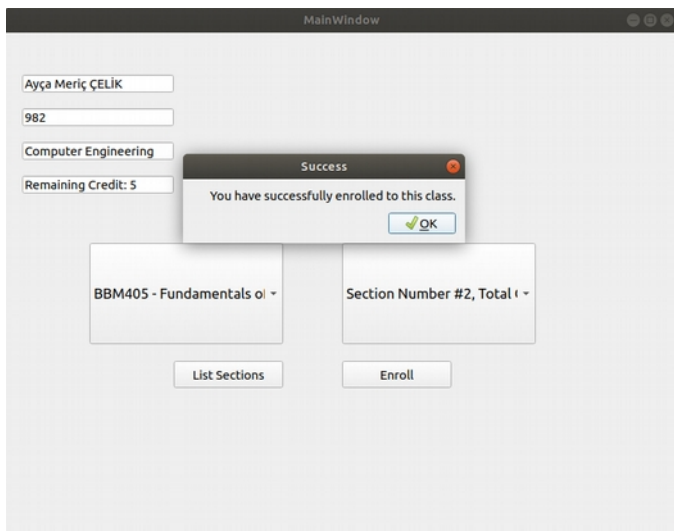
Name	Section	Term	Credit
BBM411	2	Fall 2019	6
BBM463	1	Fall 2019	10
BBM341	2	Fall 2019	4
BBM413	1	Fall 2019	10
BBM231	1	Fall 2019	7
BBM462	1	Fall 2019	6
BBM481	2	Fall 2019	10
BBM461	1	Fall 2019	6

### 1.1 Enroll to Class

The students can only enroll to courses of their departments. We list the courses in the drop-down menu and the students can see the course code, course name and the course credit in that menu. After the student select the course, he/she clicks the “List Sections” button, and sections of the course appear in the second drop-down menu with their remaining quotas.

- The student cannot enroll to a section if there is no quota left.
- The student cannot enroll to a course if he/she is already enrolled to it.
- The student cannot enroll a course if he/she has not enough credit.

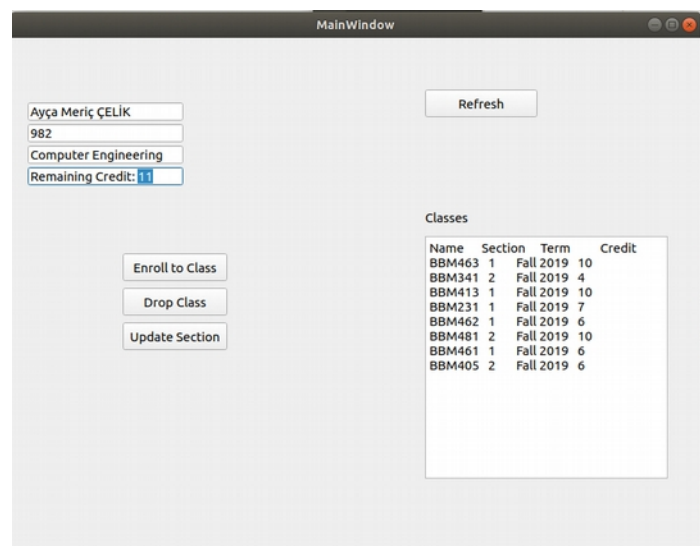
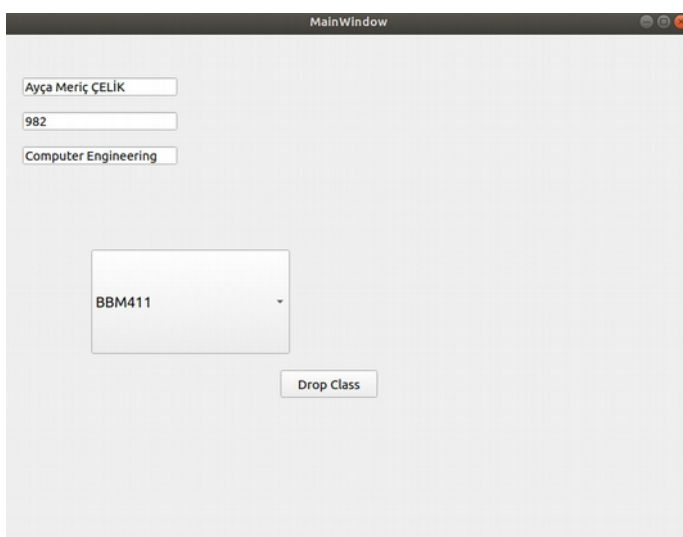
When the student clicks “Enroll” the database and the UI is updated.



As you can see, the remaining credit and class information on the main window is updated as well.

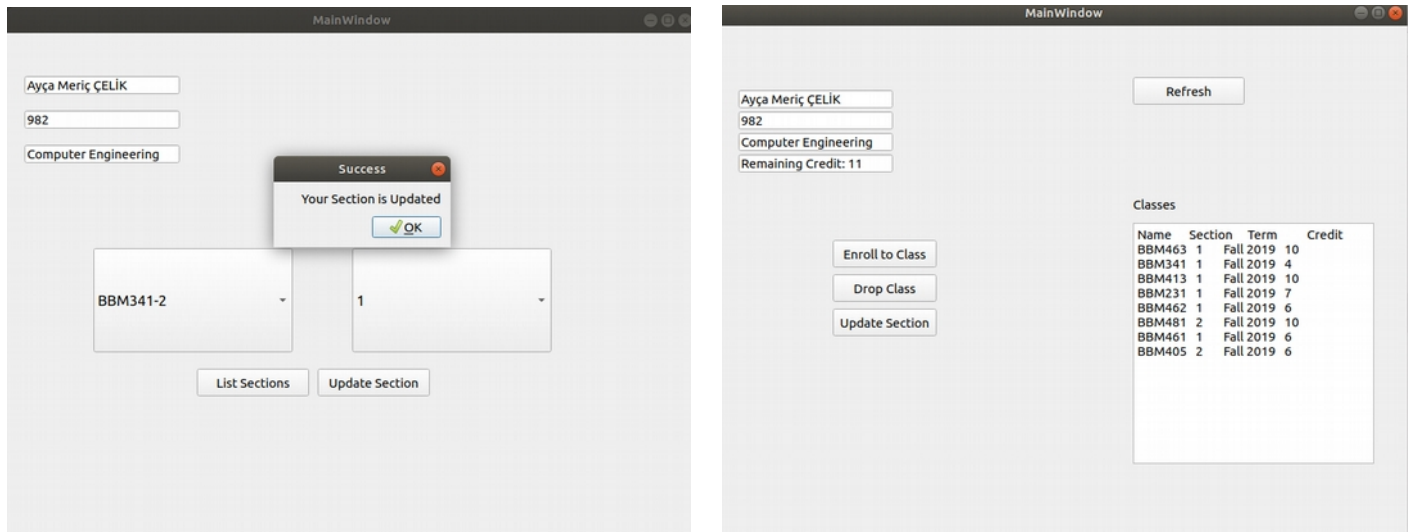
## 1.2. Drop Class

The student can enroll the courses they previously enrolled. As you can see, the remaining credit is updated and the class we dropped is no longer here.



### 1.3. Update Section

The students can update their sections of a course if the section is not full.



As you can see, the section of BBM341 is changed from 2 to 1.

## 2. Admin View

In admin view, the admin can see the tables and the statistical data of them. The admin can select the available tables in the drop-down menu.

