Students Management System Documentation

About the system:

The Students management system was designed for a college school and was designed to assist lecturers and students in their daily school activities.

System Functionalities:

The system has the following core functionalities:

* For Lecturers:

1. Add and Update Student Record
2. Search for student records using student ID
3. Login and Logout sections
4. View reports for the following
   * A list of registered Courses
   * A list of all registered Students
   * A list of students who have registered for halls
5. Student Grade entry

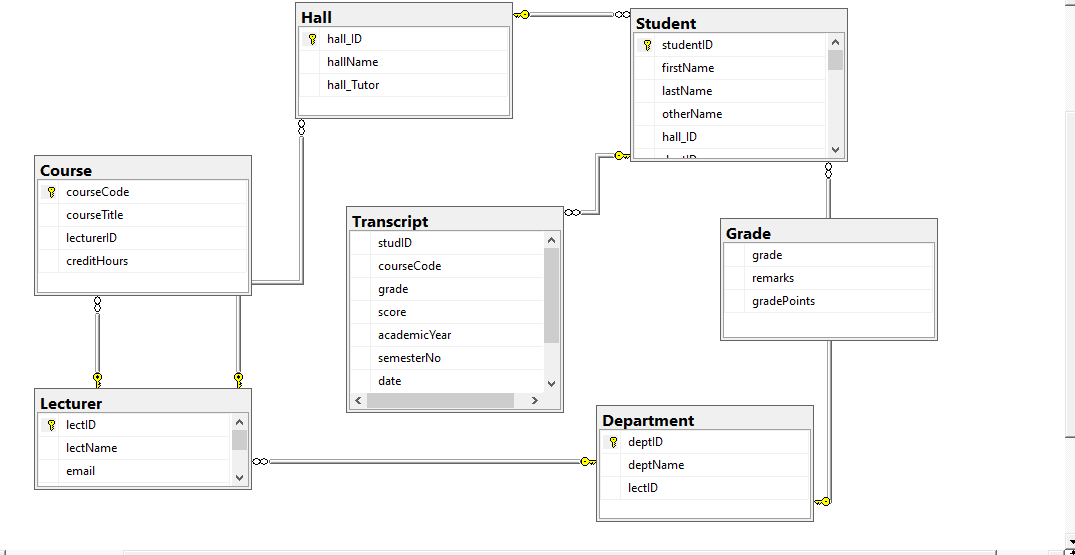
* For Students:

1. Hall and Course Registration
2. Transcript Viewing
3. Reports for Lecturers
4. Login and Logout sections

Other functionalities include an automatic generation of student identification and pins.

Backend Information and Databases:

An SQL database was developed to handle the record keeping processes of the application. Below is an ERD diagram of the datatbase:



Software Requirements:

In order to successfully run this application, the following software requirements should be available:

* Microsoft Windows 8 or better
* Microsoft Visual Studio should be installed (Visual Studio 2019 or better)
* The .NET framework should be installed

Instructions for running the application

1. Open the SMS-Db-Script.sql file inside the folder with Microsoft SQL Server Management Studio.

2. Create a new database and attach the .sql file to the database.

3. Open Visual Studio code and launch the SMS-App.sln file

4. After all files are loaded inside the solution explorer, click Start or press F5 to run the program 5. Login in to the interfaces and navigate through the applictation by selecting the tabs from the menu options.

Notes:

The .mdf and .ldf files for my database are also attached inside the database files folder for optionally accessing my database.

Sample Logins into the system:  
• Lecturer ID: 001

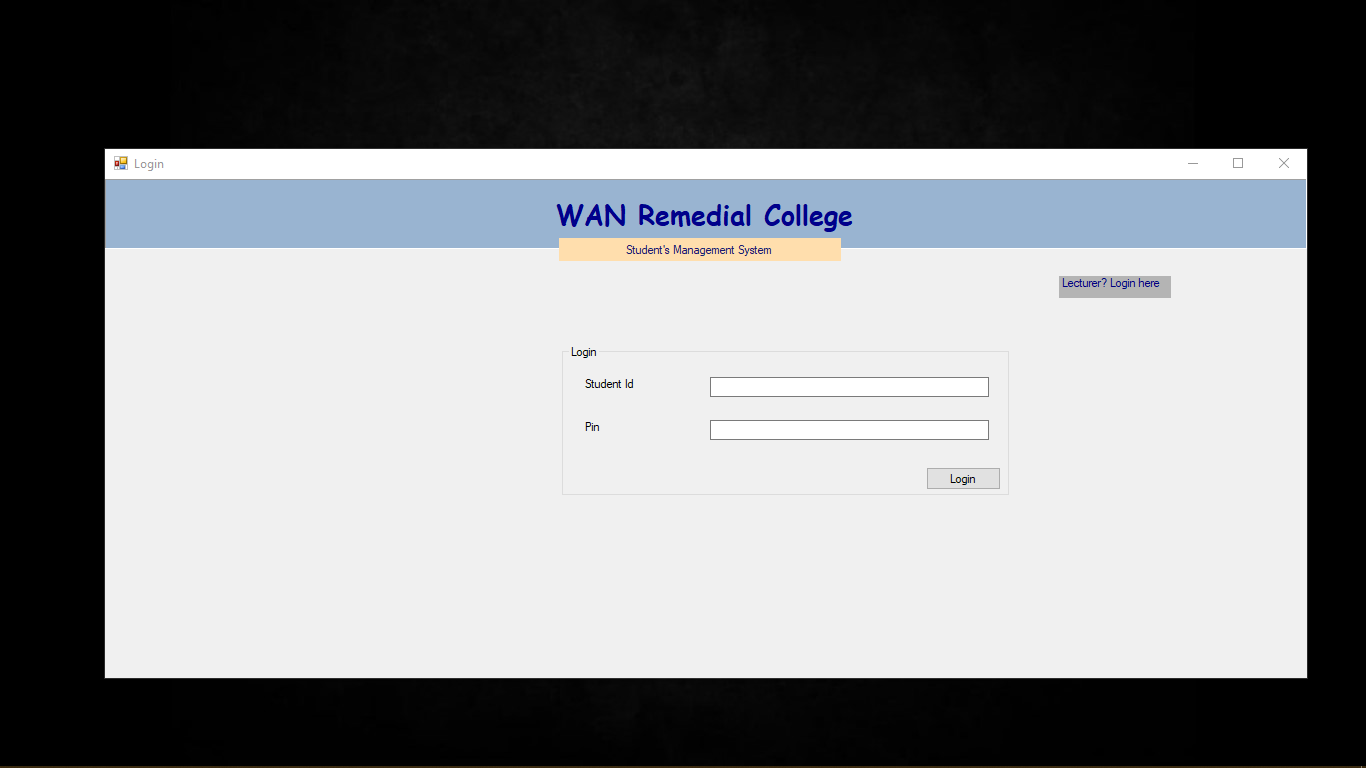
Password: admin123

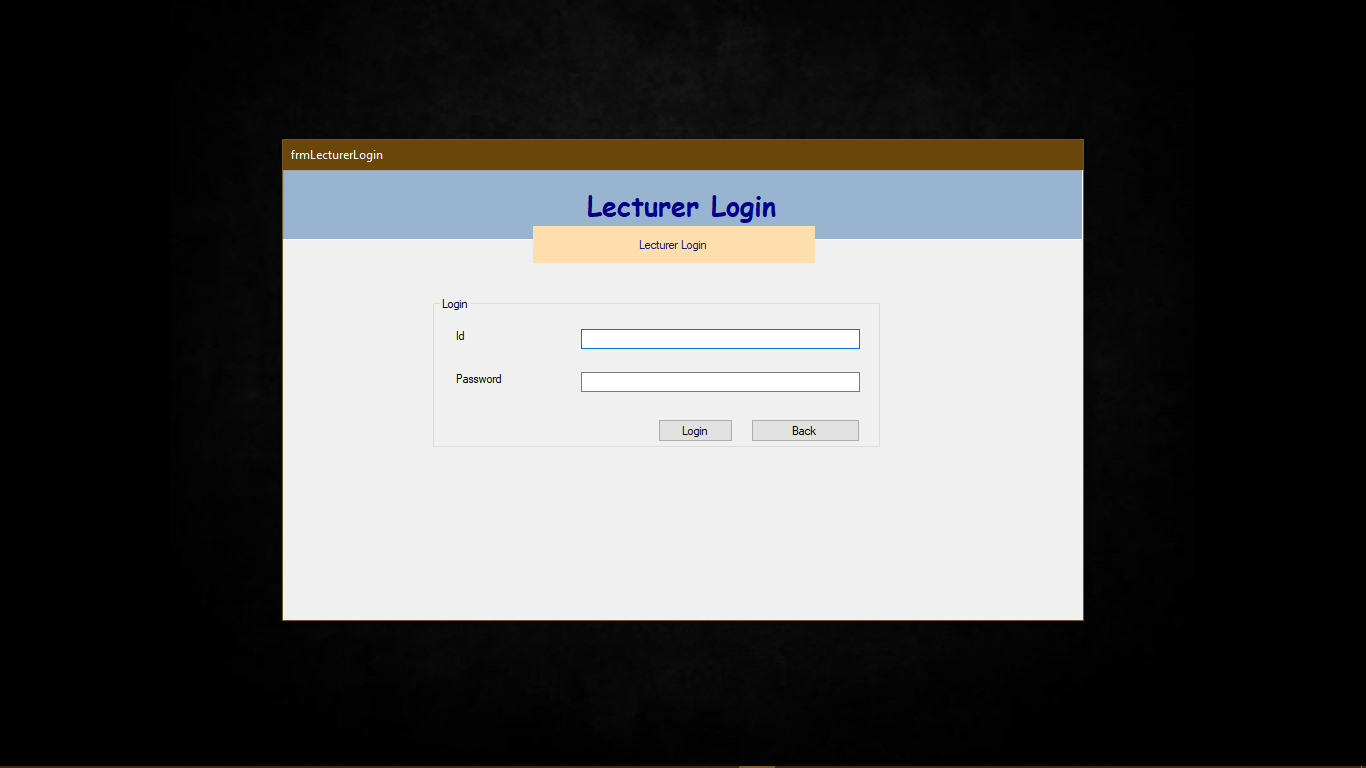
• Student ID: 10600141

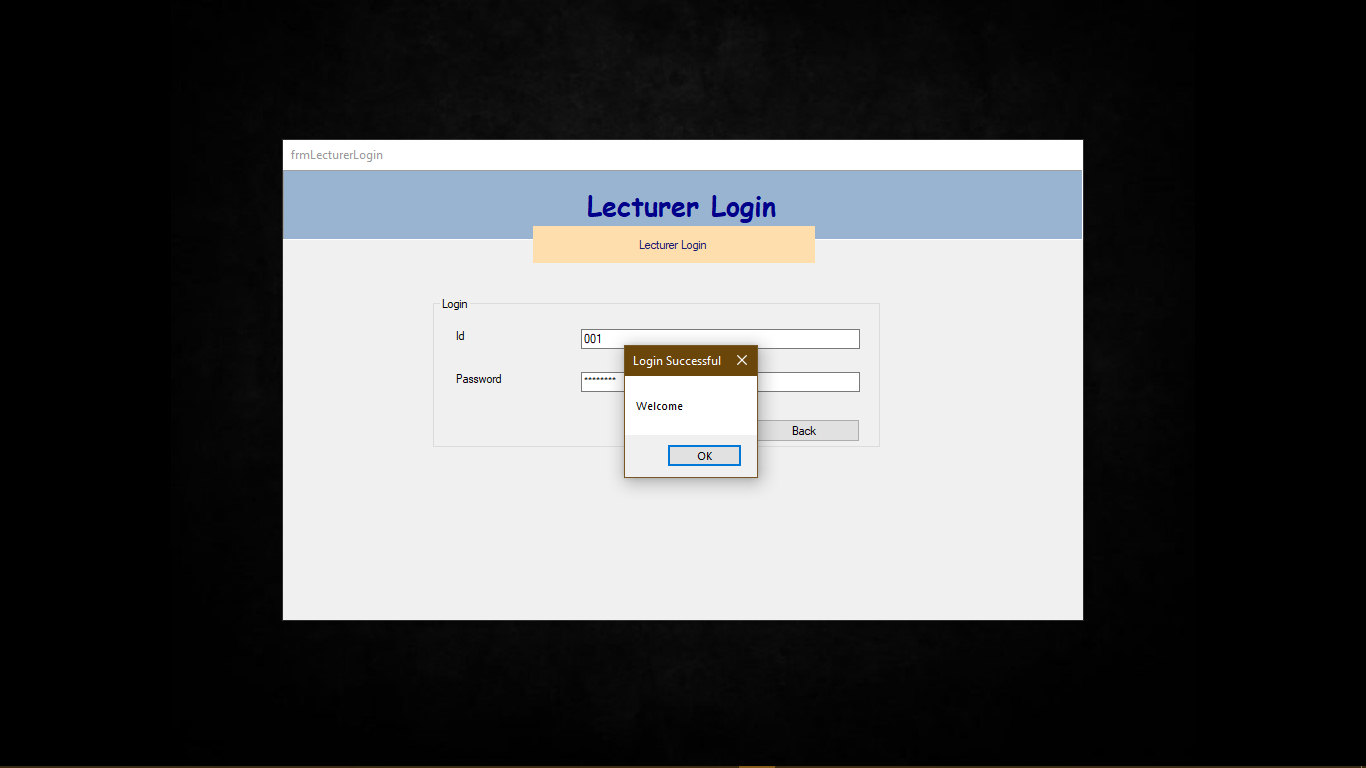
Pin: 10421

Application Screenshots:

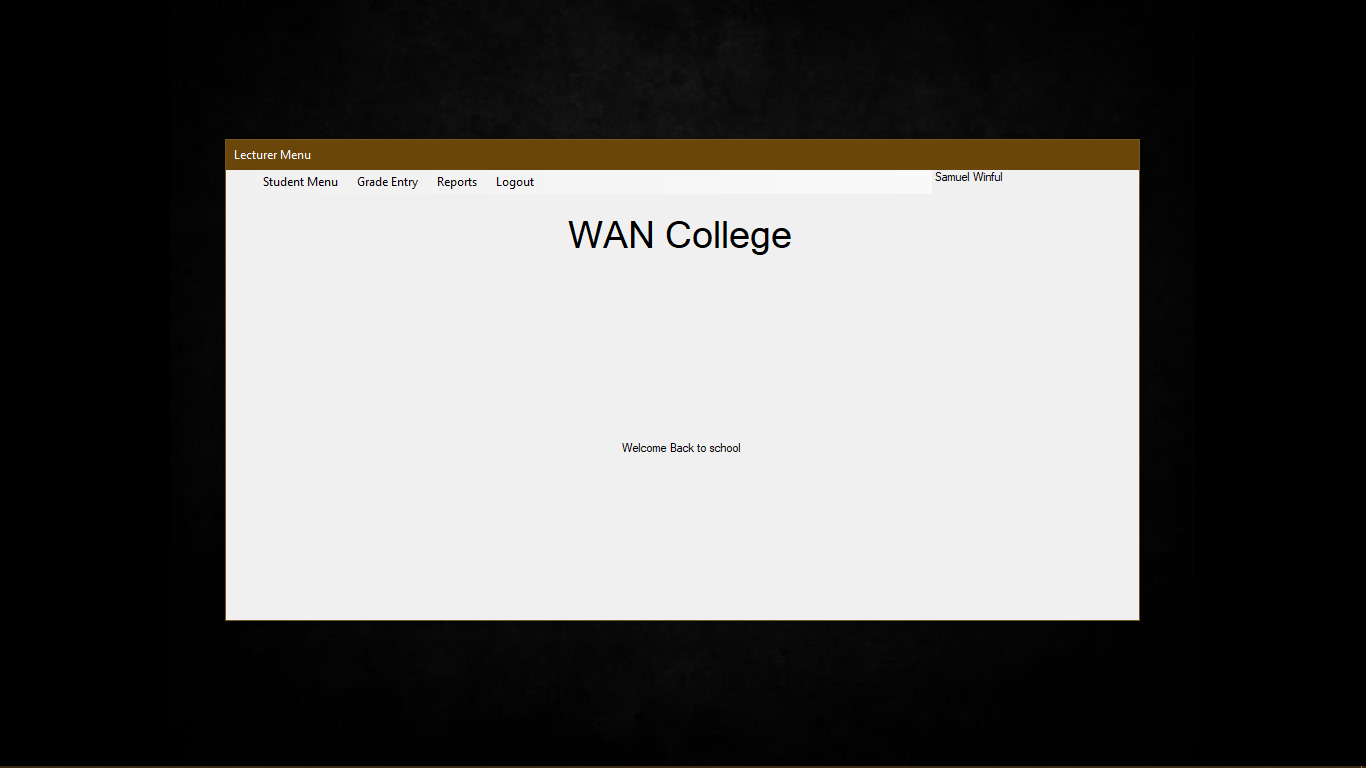
* Logins







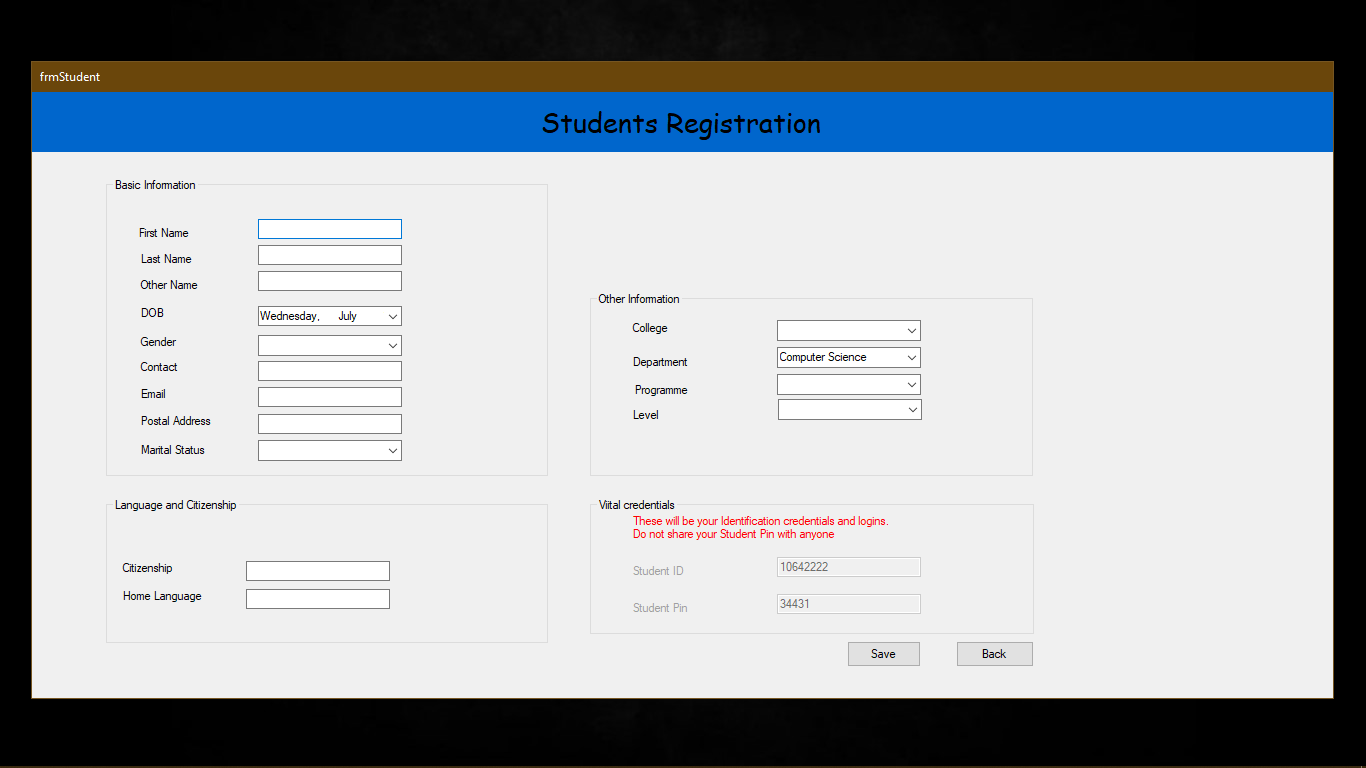
* Menus



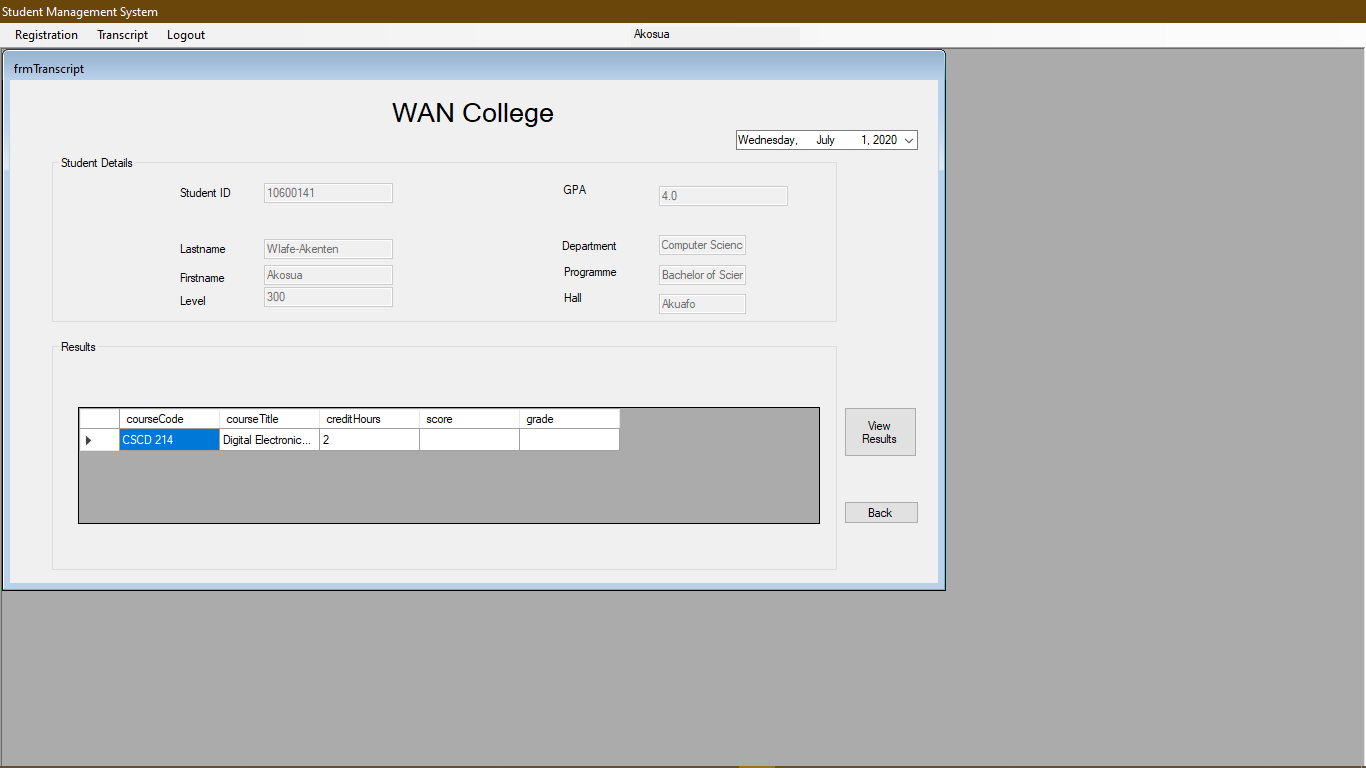
Student main menu



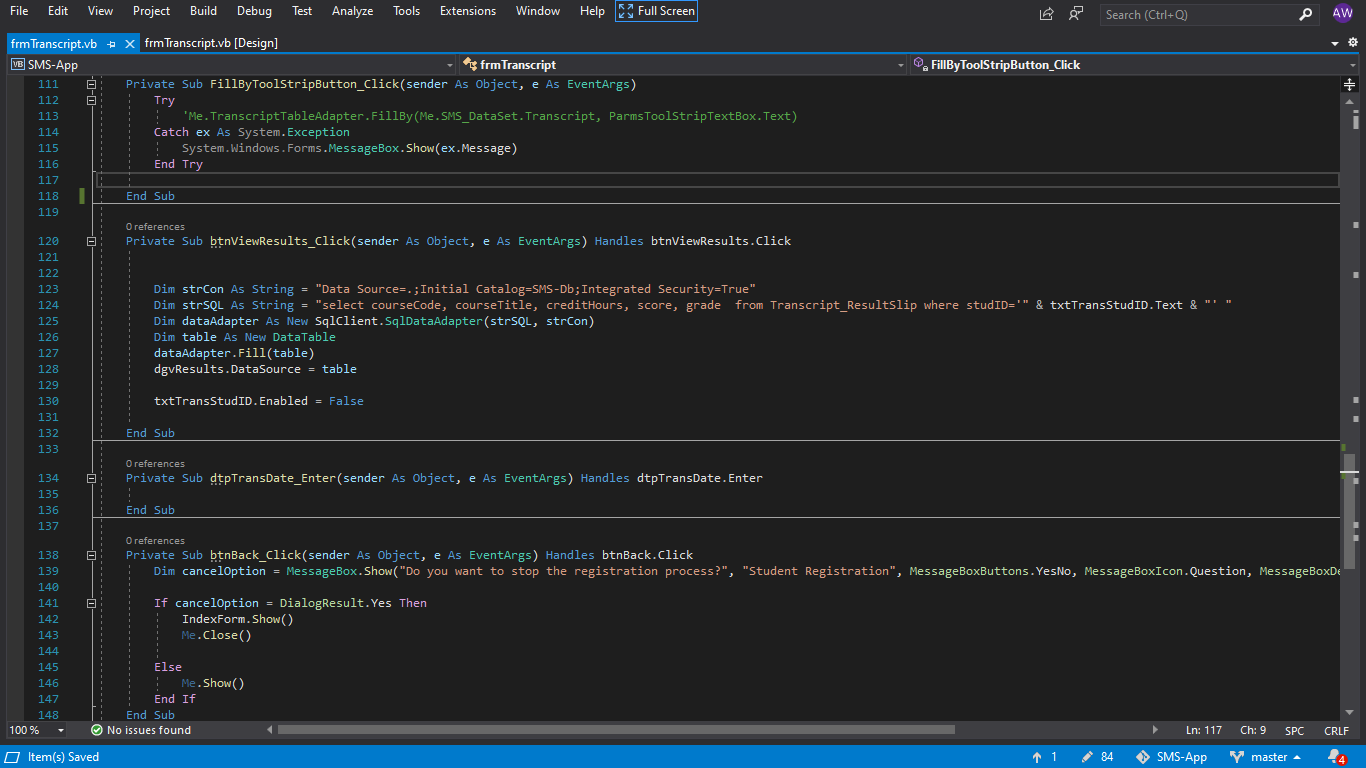
* Student Registration Form:



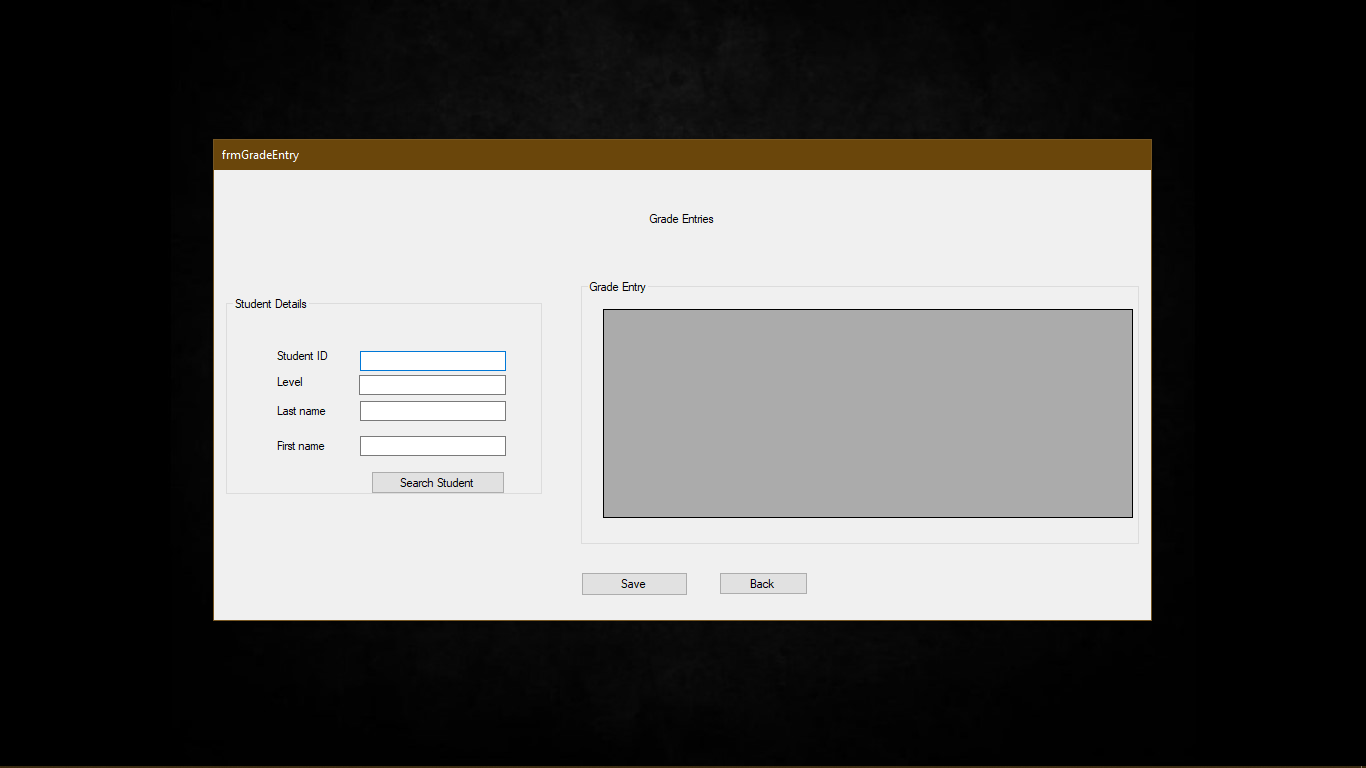
* Student Transcript form



* Sample Code(Student Transcript Form):



* Grade entry form:



* Sample report: Registered Student List

