Course: CSE-299   Section: 1  Group Number:  6

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## Introduction

The Student Portal Login Panel is a C++ application with a graphical user interface (GUI) designed for student authentication. It provides a secure and user-friendly login system using frameworks like Qt or Windows Forms.

## Features

Login Interface:

- View and update information.
- Course Management.

## Authentication:

- Displays error messages for invalid inputs.

## GUI Framework:

- Uses Qt or Windows Forms for a modern interface.

## Implementation

## Design the GUI:

- Create a window with labels, text boxes, and buttons, Only Readable Text and Rectangular box.
- Using a proper background and logo to make it more user friendly
- Use event handling for button clicks.

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## Future Enhancements:

- Implement file handling to persist student records between program executions.
- Create a GUI for more user friendly experience.
- Adding of dataset to store a data in a csv file.

## Conclusion

Implementing file handling in the Student Portal will allow student records to be stored persistently, even after the program terminates. By saving data to files, we ensure that student information such as personal details, courses, and grades are not lost. This will improve the system's functionality, enabling data to be retrieved and updated across multiple sessions, providing better data management and integrity.