

Project Report

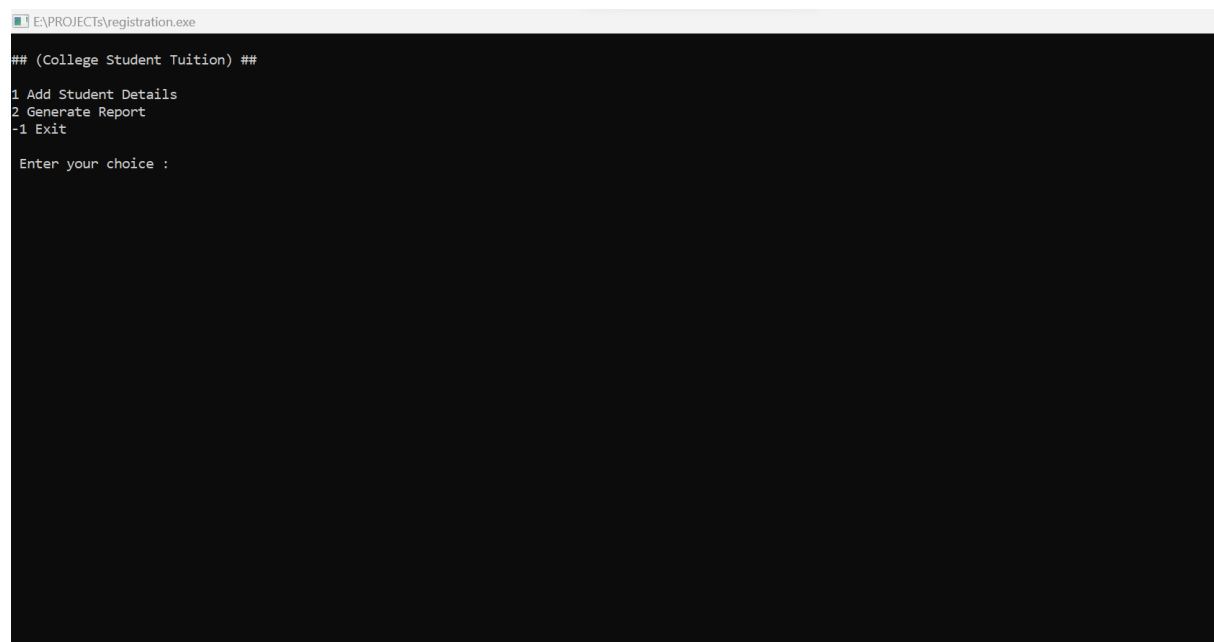
Registration of student into college

Introduction

The Tuition Report Generator is a C++ program designed to assist college administrators in managing student tuition data. It provides functionality for adding student details and generating reports summarizing the total tuition fees paid by students.

Features

- **Add Student Details:** This feature allows administrators to input and store information about individual students. Details such as the student's name, residency status (whether they are in-state or out-of-state), tuition fees, and optional enrollment in a health plan can be recorded. The program calculates the total tuition fees paid by each student based on their residency status and health plan choice.
- **Generate Report:** The program can generate detailed reports summarizing the total tuition fees paid by students. These reports distinguish between in-state and out-of-state student tuition fees, providing a breakdown of the financial contributions from each group. Additionally, the generated report is saved to a file for future reference.



```
E:\PROJECTS\registration.exe

## (College Student Tuition) ##

1 Add Student Details
2 Generate Report
-1 Exit

Enter your choice :
```

Code Explanation

The code of the Tuition Report Generator consists of several key functions:

- **addStudent:** This function is responsible for gathering and storing student details. It prompts the user to input information such as the student's name, residency status, tuition fees, and optional enrollment in a health plan. The function calculates the total tuition fees paid by each student based on their residency status and health plan choice.
- **generateReport:** This function generates a comprehensive report summarizing the total tuition fees paid by students. It retrieves data from the file containing student records and calculates the total tuition fees paid by in-state and out-of-state students. The report includes separate totals for in-state and out-of-state student tuition fees and is saved to a file named "tuition_report.txt" for future reference.
- **main:** Serving as the entry point of the program, the main function displays a menu that allows users to interact with the program. Users can choose to add student details, generate a report, or exit the program.

Sample Usage

Adding Student Details: To add student details, the user enters information such as the student's name, residency status, tuition fees, and optional enrollment in a health plan. The program calculates and updates the total tuition fees paid by in-state and out-of-state students accordingly.

Generating Report: By selecting the option to generate a report from the menu, the program produces a detailed report summarizing the total tuition fees paid by students. This report includes separate totals for in-state and out-of-state student tuition fees and is saved to a file for future reference.

Exiting the Program: Users can choose the exit option from the menu to terminate the program.

Conclusion

The Tuition Report Generator offers college administrators a convenient tool for efficiently managing student tuition data. By providing features for adding student details and generating comprehensive reports, the program supports informed decision-making and financial planning within the institution. Future enhancements could include implementing data validation, error handling, and user authentication to further enhance data integrity and security.