

Project Proposal: 'Academia'

Application to Track Students' Academic Progress

Overview of application

My proposed application is one that will track various students' academic progress as they continue through school. Inputs will be students' names, addresses, and other personally identifiable information, as well as final grades for the classes they take, the semesters they take them in, and the number of credit hours each class includes. The application will take this data, calculate and store it, and house all the information in a database. The user will then be able to come back to the application and retrieve previously entered students and view their progress broken down by semester, the grades they received for each class, the GPA for each semester, and a cumulative GPA of their progress to date. A total of hours taken will be shown, and how it compares to a minimum number of hours required to graduate. All of the output will be given in an easy-to-read form which can be printed out or saved to a file.

Windows and forms shown

The first window will be a 'main-menu' of sorts. It will ask the user which section of the program they want to go in (or exit) with a series of buttons: enter student, modify/delete student, delete student, get student report, or exit. When they choose to enter students, a series of labels and text boxes for input will be shown, guiding the user as they input a student's various details. Data on personal information will be on the left hand side of the window, while data on their academic progress will be on the right hand side. When they choose to modify/delete students, they will be presented with a table of current students. When they choose one from the table, they'll be able to modify their information, as well as add new classes or change existing ones. Each of these changes will modify their GPA in the background (which will be shown in the output screen). If the user opts to delete a student, they'll click on a button which will double-prompt them if they're sure, and perform that action based on the user's second decision. When the user wants to display output for a student or a series of students, they'll click 'get student report,' and then they can choose from a table of presently enrolled students. They can either choose one student for one report, or multiple students for multiple reports outputted as one. After the student is chosen, an output window is shown with all the formatted details of the students they've chosen. A button will allow them to save the report or print it, or close.