

Grade Progress Tracker

Created by:
Richard Salmeron
Miguel Vigil
Luke Clements
Marc Marcelino

Simple Instructions on how to start the program:

The zip file for the project contains three folders/files: the project jar file, a folder that holds the two database DDL creation statement files in json format, and a library folder for the additional libraries of functions that are used for the program. All three of these files must remain in the same place, in addition to the generated settings json file that will be saved in whatever folder these are stored in. Before beginning, this program does require an installed java runtime environment, which can be downloaded from Oracle's website. To get started, simply double click the jar file and the program will open.

Basic use instructions:

The first time the program starts, a prompt will appear in which the database save location must be selected. A second prompt will appear after this prompt is dismissed that will ask for a username and id (not used for anything specific, but could be useful in expanding the program to printable documents in the future). After these values are selected, the main program window will open. The default tab in the window layout is where all the modifications for database values takes place. The second tab is a table view of all classes and the corresponding grades in those classes (this table does not do anything useful in teacher mode). The third tab is the tab where username and id can be updated, the program mode can be changed, and the database save location can be changed as well.

Every subsequent execution of the program will not require the input of the database save location or the username and id. These are recording in the generated settings file, and as long as the settings file is in the correct place next to the other files, the program will execute normally.

The program initially starts in student mode, in which only classes(includes additional relevant class information) and their corresponding assignments can be modified and viewed. The program includes an additional mode, teacher mode, which allows the input of students assigned to a specific class with specific assignments in that class.

Tips:

- In order to add new values to any of the tables, the top rows must be selected in the corresponding table. The only table that is an exception to this is the category weight table.
- Assignments cannot be added without first having both a student and a class (teacher mode) or just a class (student mode), depending on which mode is currently selected.
- Categories for assignments and their corresponding weights must be entered into the database before any class can be entered. This ensures that the assignment category exists in the database before the assignment is entered into the database.
- In the search tab, the GPA calculated is based upon all the items in the table, which can be modified by using the search function. The search function is case sensitive. The search function also only works for larger search string inputs.
- In the search tab, the maximum score possible in a class is displayed by selecting a specific class in the table. If the class is already finished(all assignments are entered), it will display the score achieved in the class.