

# Grader

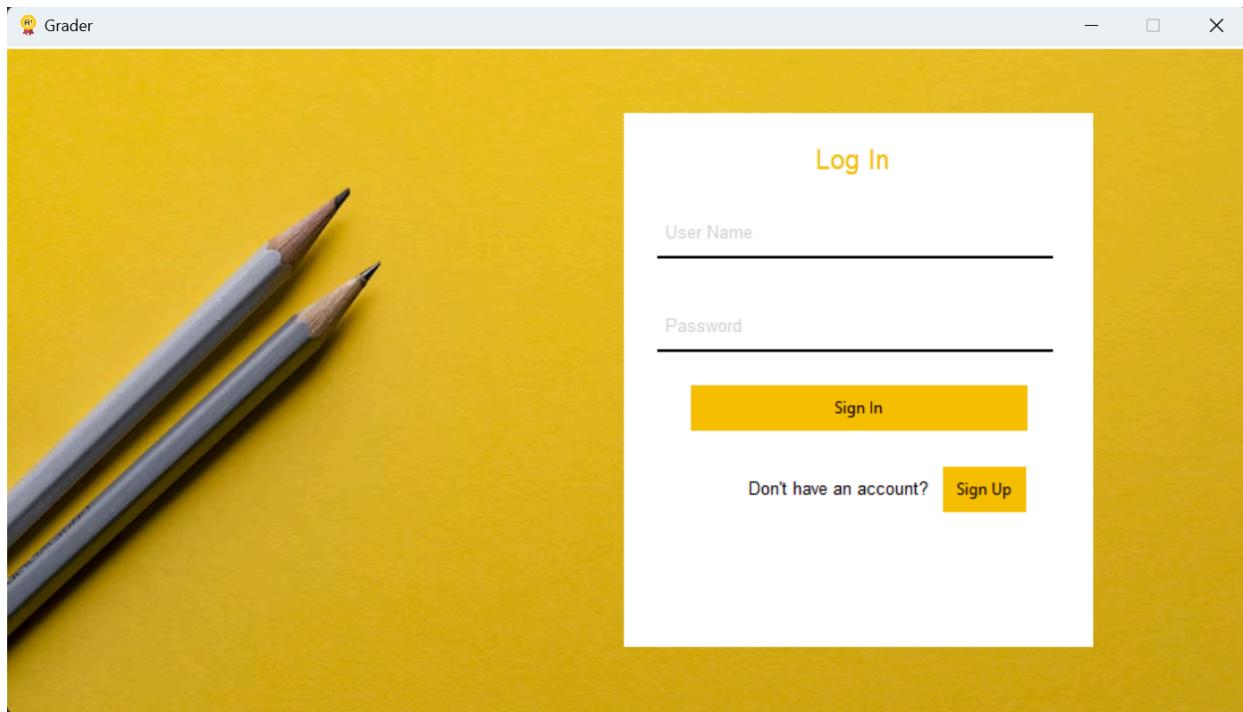
The Grader is a python based system with a Tkinter interface which allows teachers/instructors to efficiently keep track of their students and their grades. Teachers have accessibility to a variety of features to organize all the data and work efficiently.

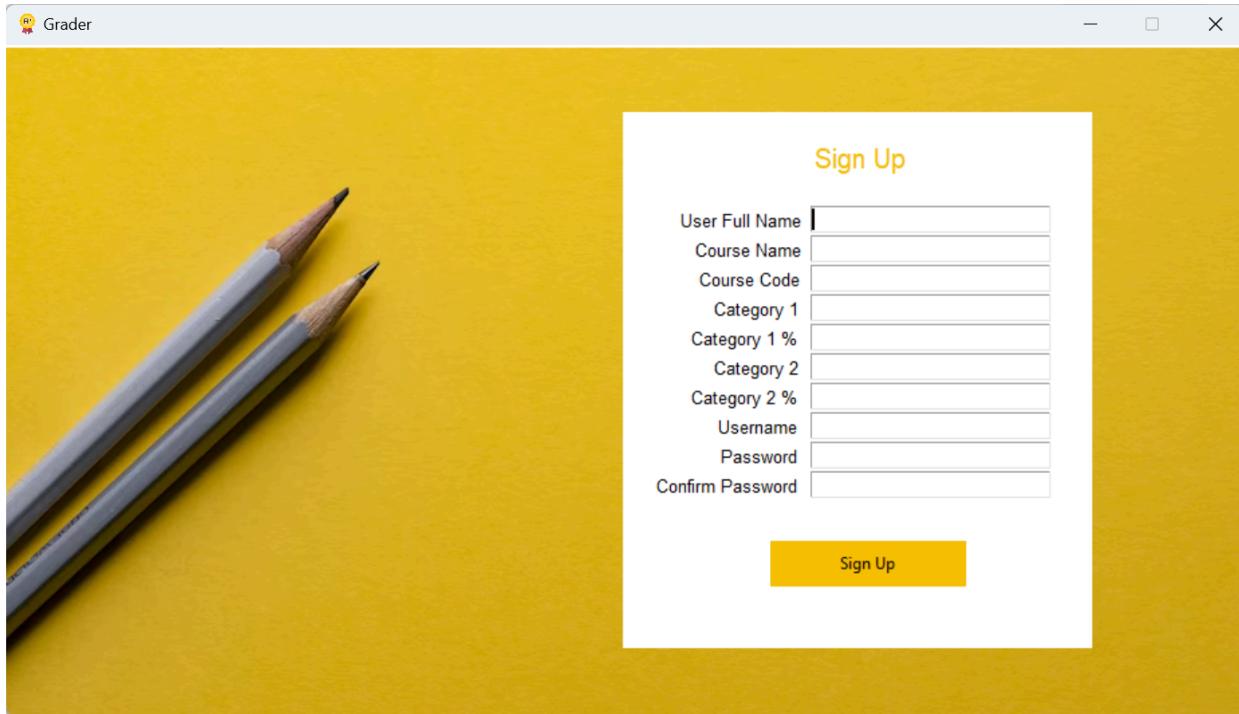
**Note:** For testing purposes, please open the 'login\_page.py' file. Trying to open any other files will not work as they are not programmed to directly open.

- setup.txt : This file stores the users login information.
- students.txt : This file contains student information. (First name, Last name, Student #)
- test.txt : All the test information is stored in this file.
- background.png : Background image
- log-in.png : Software Icon/Symbol

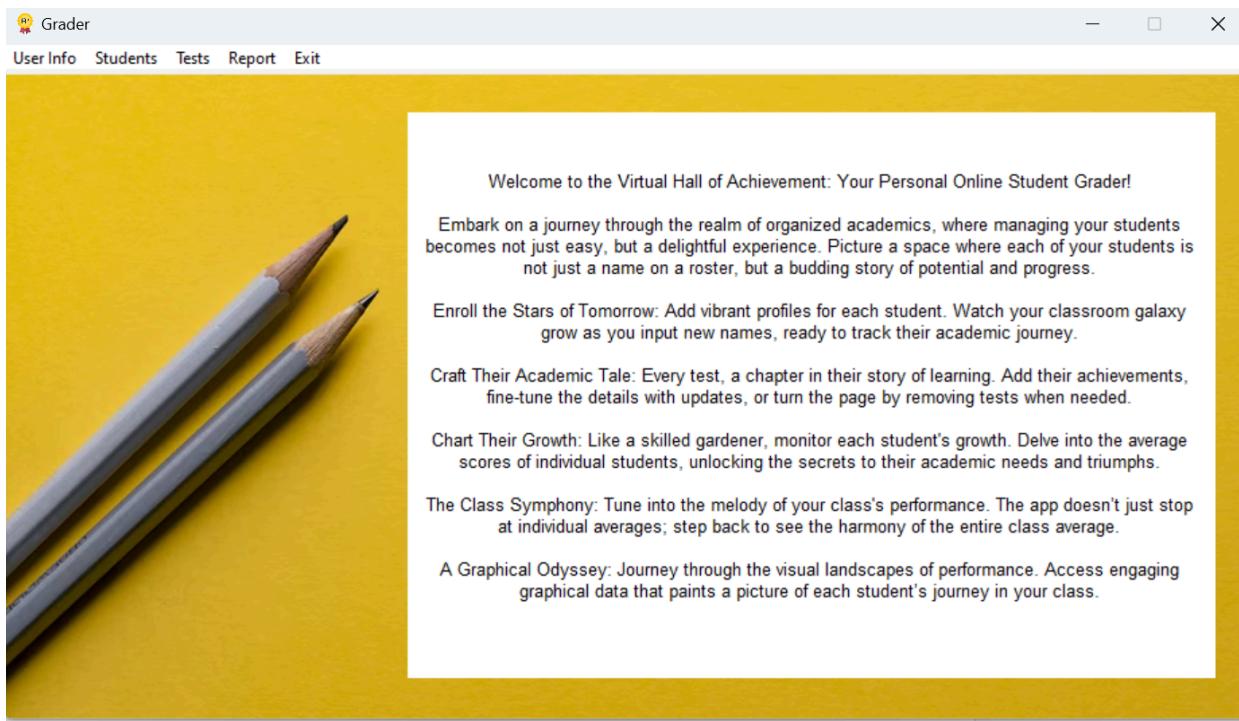
**Below are all the features of the Grader:**

**1. Login Page:** On this page, the user can log-in with their credentials into the Grader. If the user does not have an account they can sign-up by filling in some information about the course they are going to teach.

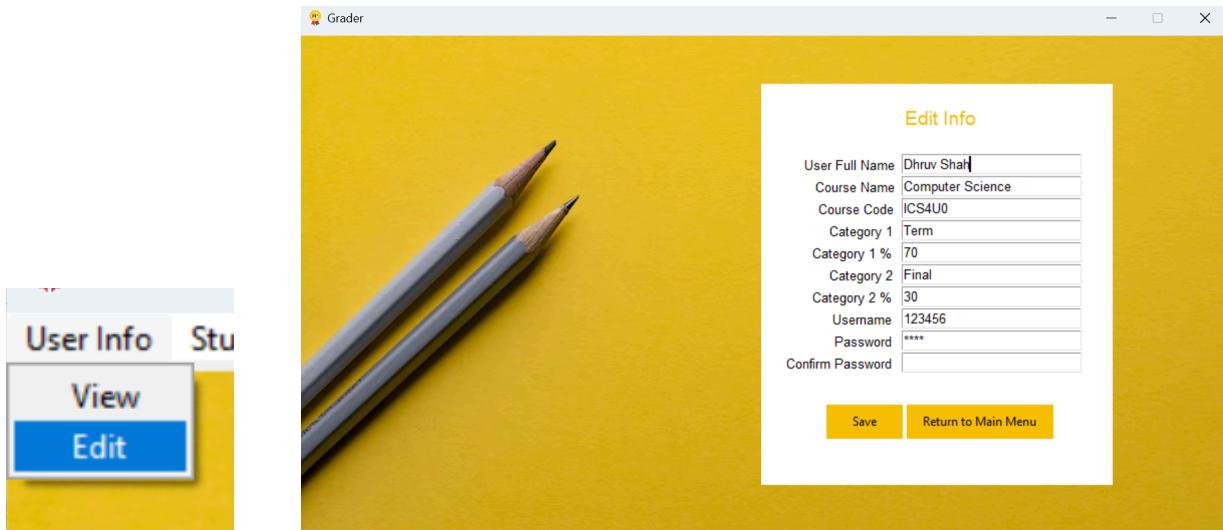
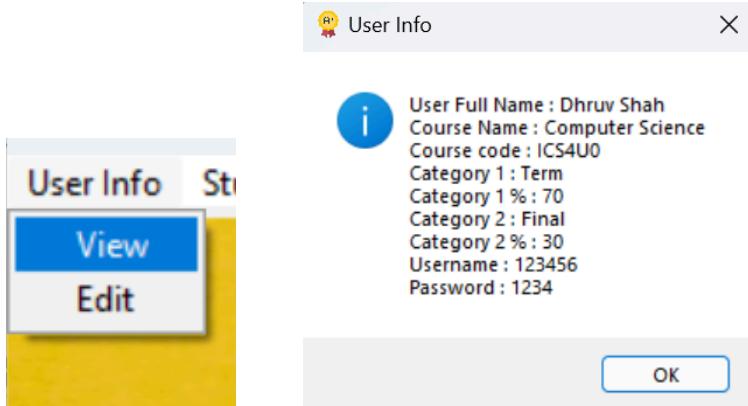




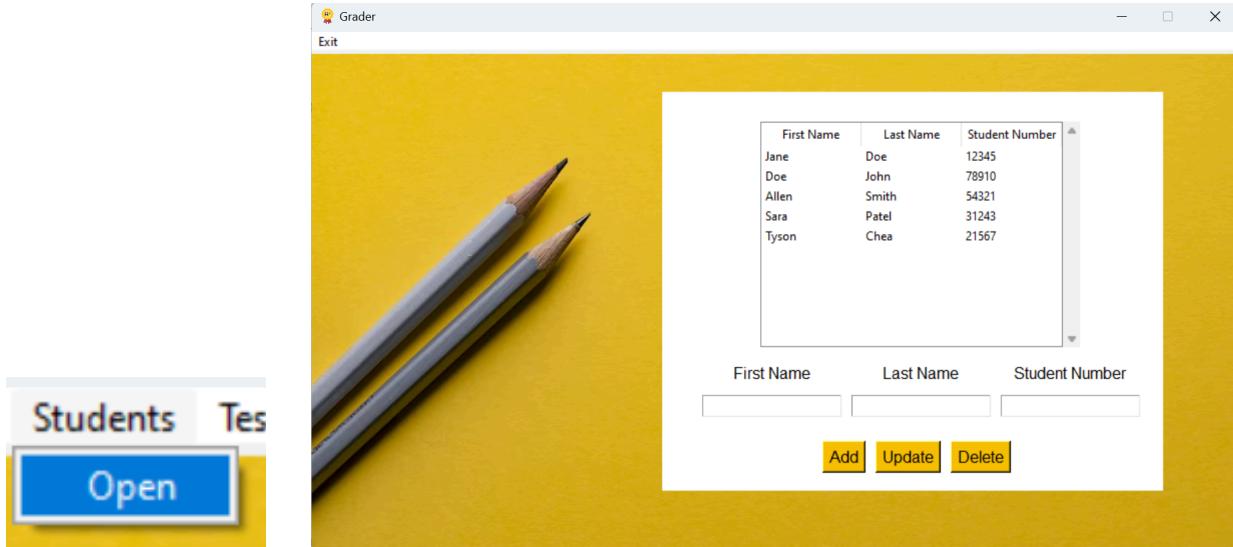
**2. Main Page:** This is where the user can read a brief overview of what this software is capable of and access all the features.



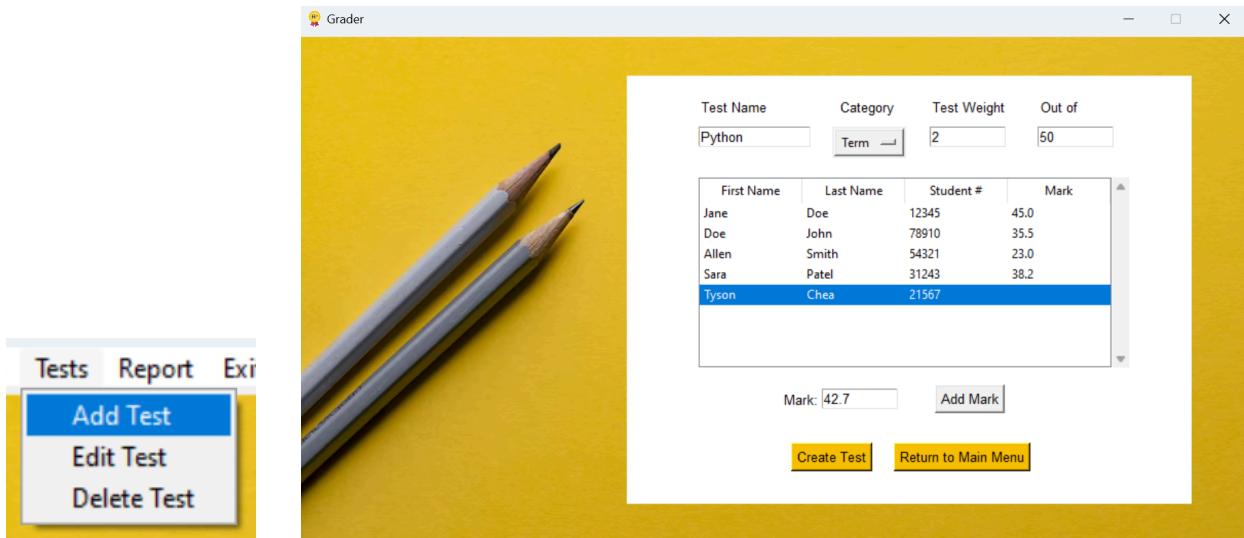
**3. User Info:** The user can view and edit their user information anytime from the main page.



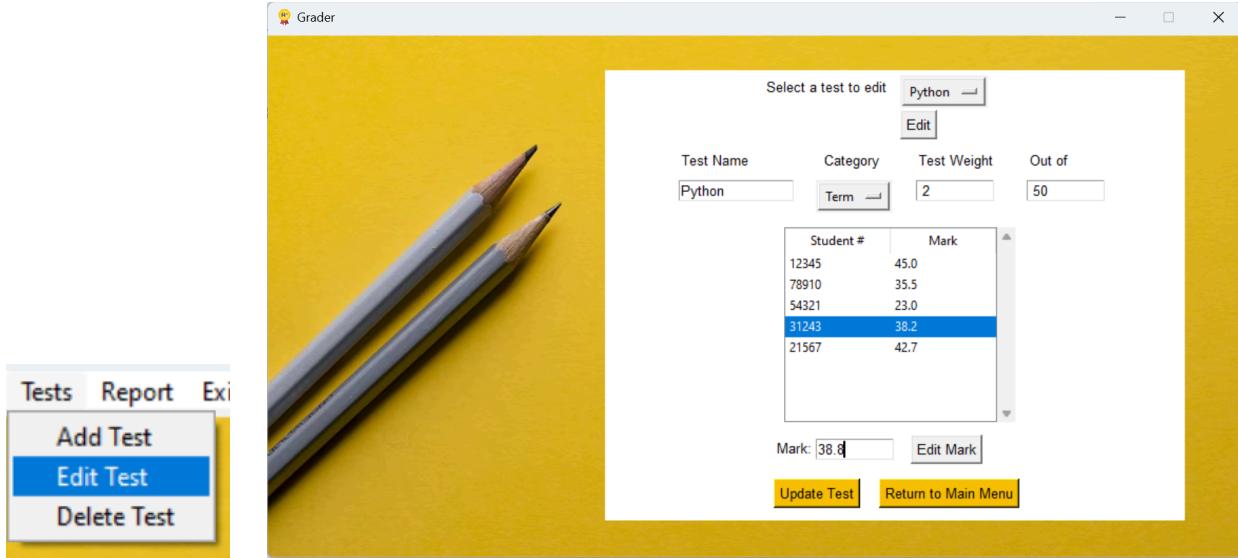
**4. Students Page:** Here, the user can make changes to their students list. They can add a new student, update a student's information and if a student leaves the class then the user can also delete the student from the class list.



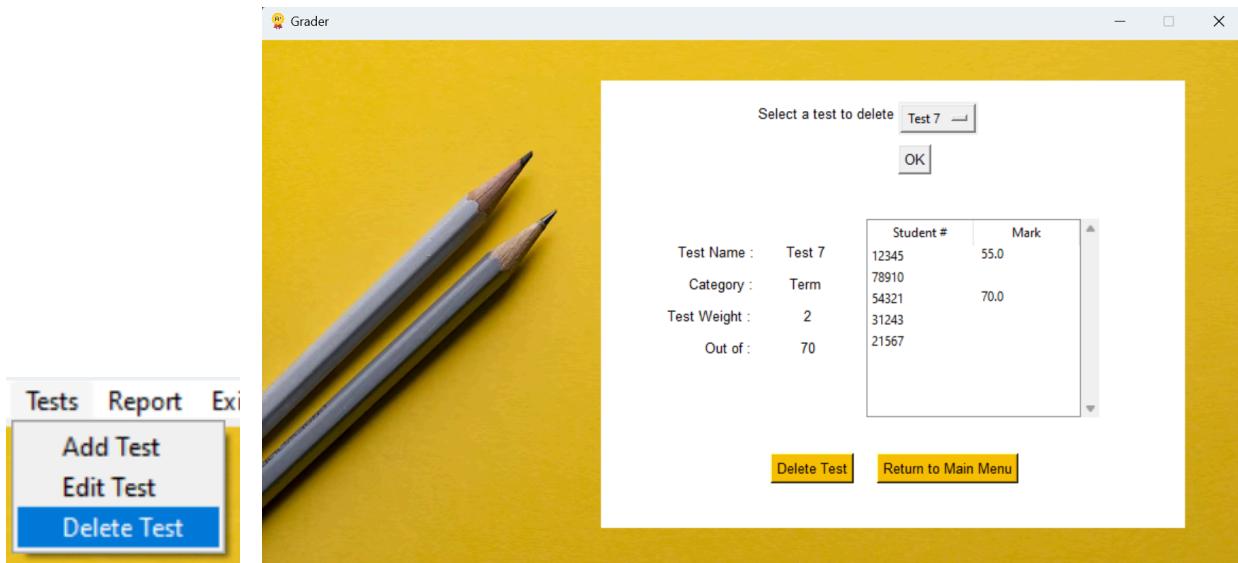
**5. Add Test Page:** This feature allows the user to add a new test the class took and add marks for each student. For example - The class took a Python test out of 50 marks. It is a term test and is weighted 2. (Note: 2 is not 2%. It means that it is going to be worth double that of a normal test. Similarly 3 means it is worth triple and so on.)



**6.Edit Test Page:** This page allows the user to change test information and change the mark of any student for the selected test.



**7. Delete Test Page:** If the user wants to delete a test for the whole class they can do that from the delete test page.



**8. Averages Page:** This page shows the average for every student and also the average for the entire class. This way the user can monitor a student's progress and also decide if they need to change any teaching methods, give more assignments for practice, etc, for improving the entire class's grade.

The screenshot shows a Windows application window titled "Grader". On the left, a vertical menu bar contains "Report", "Exit", "Averages" (which is highlighted in blue), and "Graph". The main content area features a yellow background with two pencils. To the right of the pencils is a table titled "Student Averages" with the following data:

First Name	Last Name	Student #	Average
Tyson	Chea	21567	87.01%
Jane	Doe	12345	73.36%
Doe	John	78910	65.51%
Sara	Patel	31243	70.43%
Allen	Smith	54321	80.82%

Below the table, the text "Class Average : 75.43%" is displayed. At the bottom right is a "Return to Main Menu" button.

**9. Graph Page:** This is where the user can see visual representation of a student's progress and can figure out trends in the grades of all students.

The screenshot shows the same "Grader" application window. The vertical menu bar on the left includes "Report", "Exit", "Averages", and "Graph" (highlighted in blue). The main content area displays a table of student information and a bar chart below it. The table shows the following data:

First Name	Last Name	Student #
Jane	Doe	12345
Doe	John	78910
Allen	Smith	54321
Sara	Patel	31243
Tyson	Chea	21567

To the right of the table are two buttons: "Show Graph" and "Return to Main Menu". Below the table is a bar chart with the following data:

Category	Grade (%)
test1 (term)	95.0%
test 2 (term)	68.0%
test 3 (term)	94.3%
test5 (term)	90.0%
final (sum)	89.0%
Python	46.0%