

## **Class Grade Calculator - User Guide**

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**a. Introduction**

Class Grade Calculator is a powerful web application that assist students in grade-based calculations which find out what their final grade will be at the end of the current semester for a given class. This class grade calculator will calculate the final grade from the scores and weights that the user inputs.

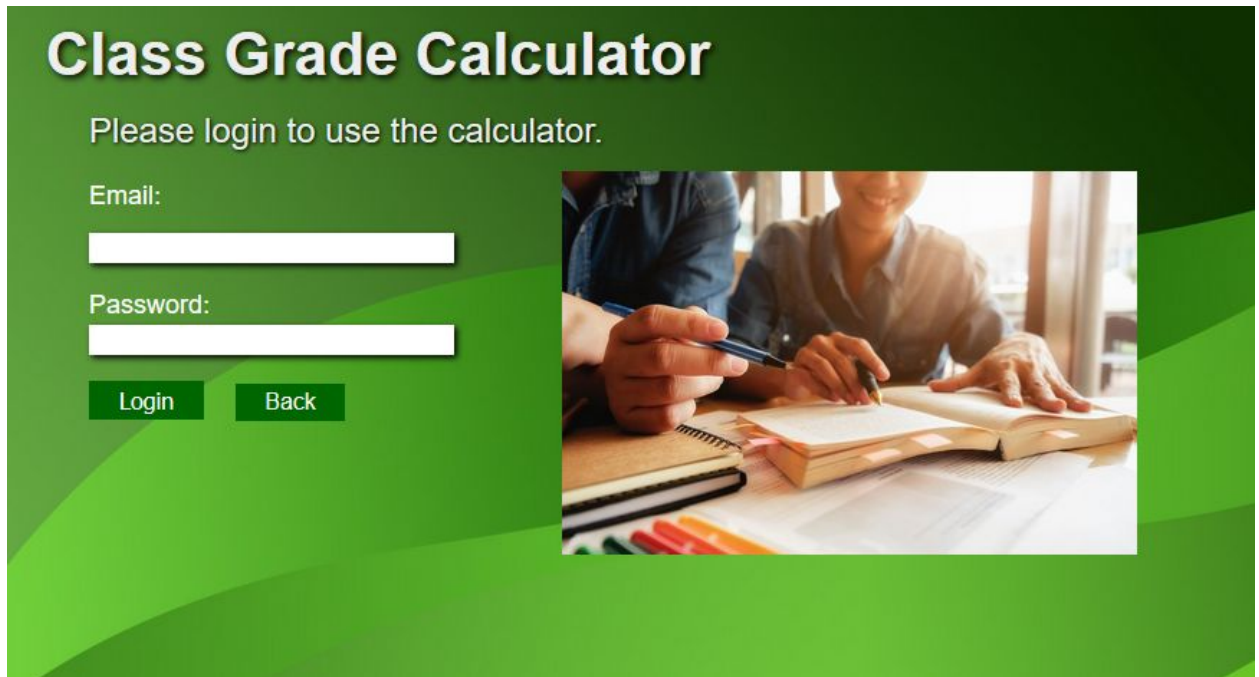
Class grades are extremely important to many students. They are constantly concerned with what their final grade will be for a certain class. Sometimes, it is difficult to find out these things, as the tools are not readily available for the students. Some softwares have a “What If” grade calculator (Canvas), but this is often inaccurate, as the teachers do not have the proper weights initialized.

That is where this software will come in. This software will give the students the ability to accurately and efficiently find out what they want to know about their grades.

For this software, our primary stakeholders would be college students. In my opinion, college students are more concerned with their grades than students who are not yet in college. However, this software will be of use to students who are not yet in college. Basically, all students who care about their class grades will be the stakeholders for this software.

Additionally, teachers could also be a potential stakeholder for this project. They could introduce their students to the grade calculator at the beginning of the semester, and let them know that they could use it to find out their grades throughout the semester.

b. Login

The image shows a web application interface for a 'Class Grade Calculator'. The background is a dark green gradient. At the top, the title 'Class Grade Calculator' is displayed in a large, white, bold font. Below the title, a message 'Please login to use the calculator.' is written in a smaller white font. The login form consists of two white input fields: the first is labeled 'Email:' and the second is labeled 'Password:'. Below these fields are two green buttons with white text: 'Login' and 'Back'. To the right of the login form, there is a rectangular inset image showing two students sitting at a desk, looking at an open book and writing with pens. The overall design is clean and modern.

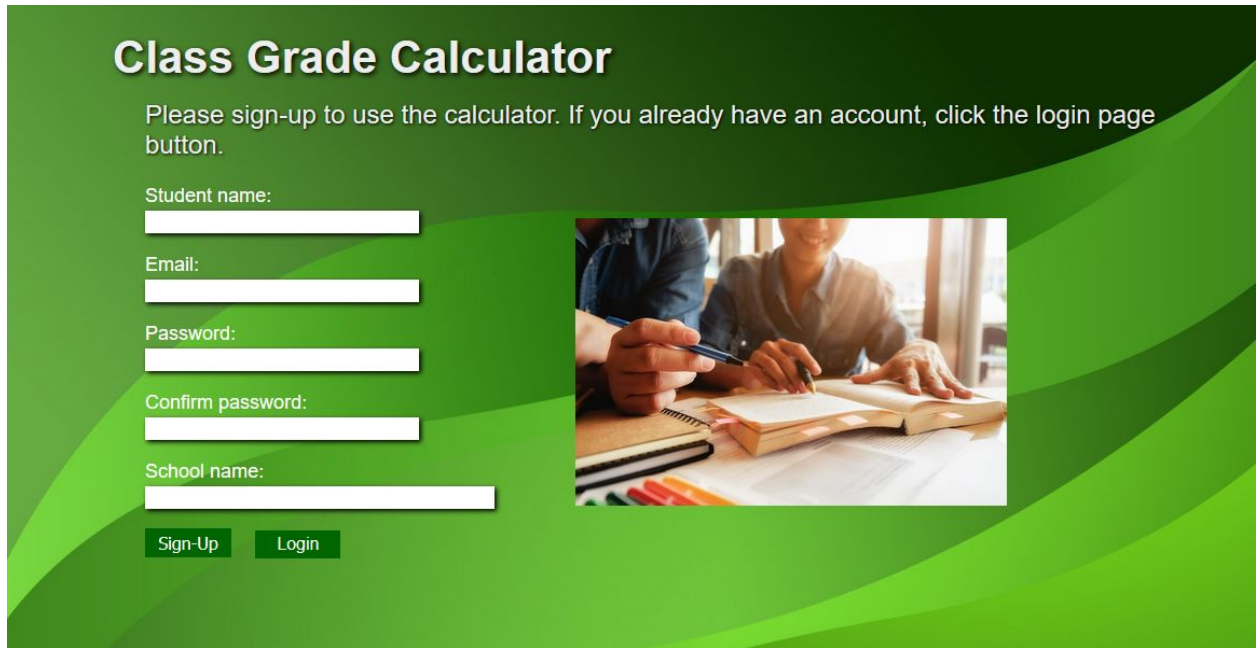
Users who have previously registered for the Grade Calculator web application must login by:

- Entering their **Email**
- Entering their **Password**
- Selecting **Login** to advance to the next screen and begin using the application

*Site Registration*

Users who have not previously registered for the Grade Calculator Web Application must select “Back” to access the “Sign Up Page”.

c. New User Registration



The screenshot shows a web page titled "Class Grade Calculator" with a green background. It contains a registration form with the following fields: "Student name:", "Email:", "Password:", "Confirm password:", and "School name:". Below the form are two buttons: "Sign-Up" and "Login". To the right of the form is an image of two students working on a notebook. Above the form, there is a text prompt: "Please sign-up to use the calculator. If you already have an account, click the login page button."

Users will be asked to enter or select the following information:

**Student Name**

Enter the student's name

**Email**

Enter the user's address

**Password**

Enter the password to be linked with the account with keeping in mind that passwords are case sensitive.

**Confirm Password**

As a security check, user will be asked to retype his/her password.

**School name**

Users are prompted to enter their school name.

## Sign-Up

This button successfully creates the user with the above credentials.

## Login

This button redirects to the login page so that the user can successfully sign into the application.

### d. Grade Calculation Page

The screenshot shows a web application titled "Class Grade Calculator" with a green background. In the top right corner, there is a "Log Out" button and a user greeting: "Hello, Harsh Patel!! UNCC". The main instruction reads: "Enter your current grades for the different types of assignments, along with the weights that each of the assignments have. Your calculated final grade will be on the right." Below this, there is a table with three columns: "Assignment", "Grade (%)", and "Weight (%)". The first row is pre-filled with "Test 1", "100", and "40". There are eight empty rows below it. To the right of the table is a "Results" section. It contains the text "Your calculated final grade is" followed by a "Result" label. Below that, it says "The total combined weight of the assignments you entered is 0 percent." At the bottom of the form, there are four buttons: "Calculate", "Clear", "Save", and "Show Previous Log".

Assignment	Grade (%)	Weight (%)
Test 1	100	40

**Results**

Your calculated final grade is  
**Result**

The total combined weight of the assignments you entered is  
0 percent.

Calculate Clear Save Show Previous Log

After the user successfully logs in with correct credentials, then he/she is redirected to grade calculator page in order to perform the calculations. Here, the user is asked to enter the assignment, grade of each assignment, and weightage of each grade. Then user clicks on **Calculate**, and the output is shown under the results section.

Log Out

Hello, Harsh Patel!!!  
UNCC

# Class Grade Calculator

Enter your current grades for the different types of assignments, along with the weights that each of the assignments have. Your calculated final grade will be on the right.

Assignment	Grade (%)	Weight (%)
Test 1	90	50
Test 2	80	50

Calculate

Clear

Save

Show Previous Log

## Results

Your calculated final grade is  
**85.000**

The total combined weight of the assignments you entered is  
**100**  
percent.

In order to save the record to the database, the user will click on the **Save** button, then it will display the following:

# Class Grade Calculator

Enter your current grades for the different types of assignments, along with the weights that each of the assignments have. Your calculated final grade will be on the right.

Grades saved successfully to database!

OK

## Clear

Select “Clear” to erase all the fields previously entered.

## Log Out

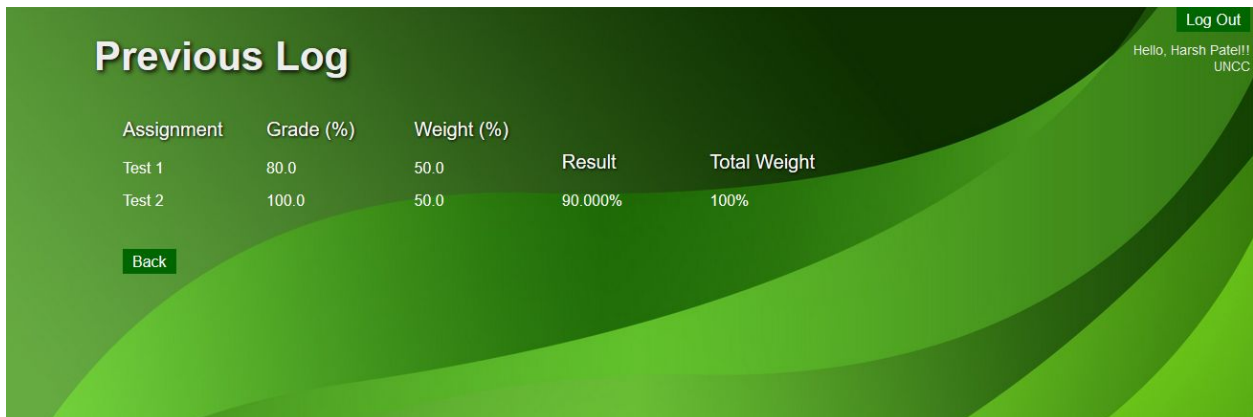
Successfully logs out the user and clears the session. Moreover, under the logout button, one can see the current user's credentials such as user name, and the name of the school.

## Show Previous Log

On clicking this button, the user is directed towards the latest record stored under that user. More details will be provided in the next section.

### e. Previous Log Page

After the user clicks on the *Show Previous Log* button, the user is redirected to previous log page where it renders the latest/previous data stored in the database under that user. Preview can be seen below:



Assignment	Grade (%)	Weight (%)	Result	Total Weight
Test 1	80.0	50.0		
Test 2	100.0	50.0	90.000%	100%

Back

Log Out  
Hello, Harsh Patel!!!  
UNCC

## Back

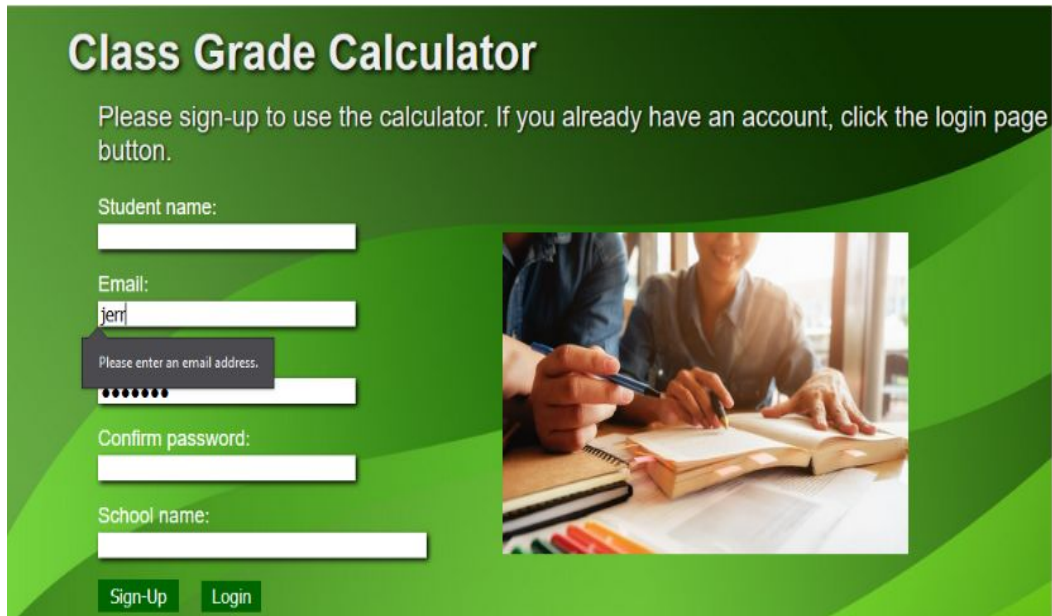
User is redirected back to the grade calculation page.

## Log Out

On clicking this button, the user is successfully logged out and the session is cleared.

## f. Validations

*Incorrect Email input*



**Class Grade Calculator**

Please sign-up to use the calculator. If you already have an account, click the login page button.

Student name:

Email:

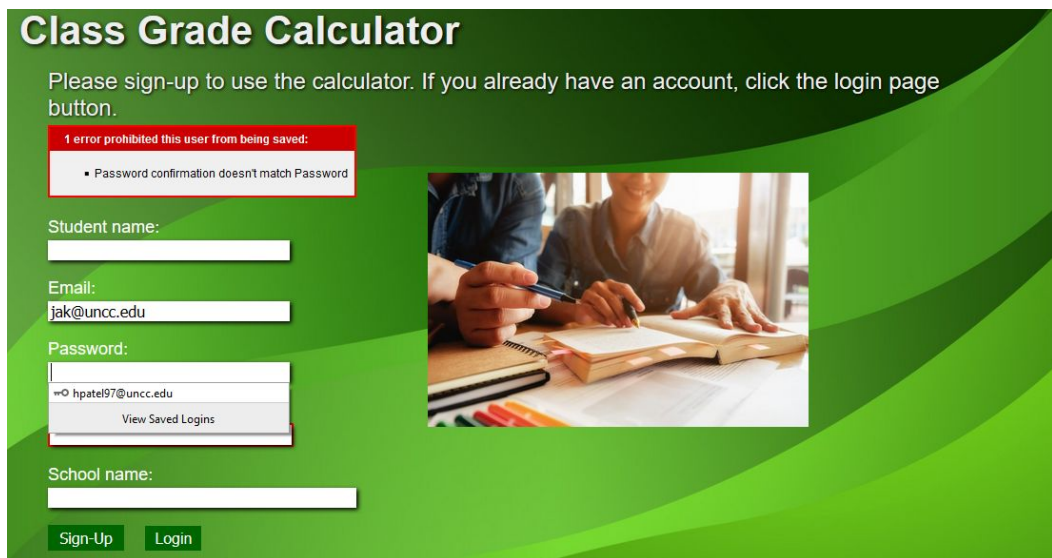
Please enter an email address.

Confirm password:

School name:

The screenshot shows a sign-up form for a 'Class Grade Calculator'. The form has fields for 'Student name', 'Email', 'Confirm password', and 'School name'. The 'Email' field contains the text 'jerr'. A red error message box is displayed below the email field, stating 'Please enter an email address.' To the right of the form is an image of two students working on a notebook.

*Password doesn't match*



**Class Grade Calculator**

Please sign-up to use the calculator. If you already have an account, click the login page button.

1 error prohibited this user from being saved:

- Password confirmation doesn't match Password

Student name:

Email:

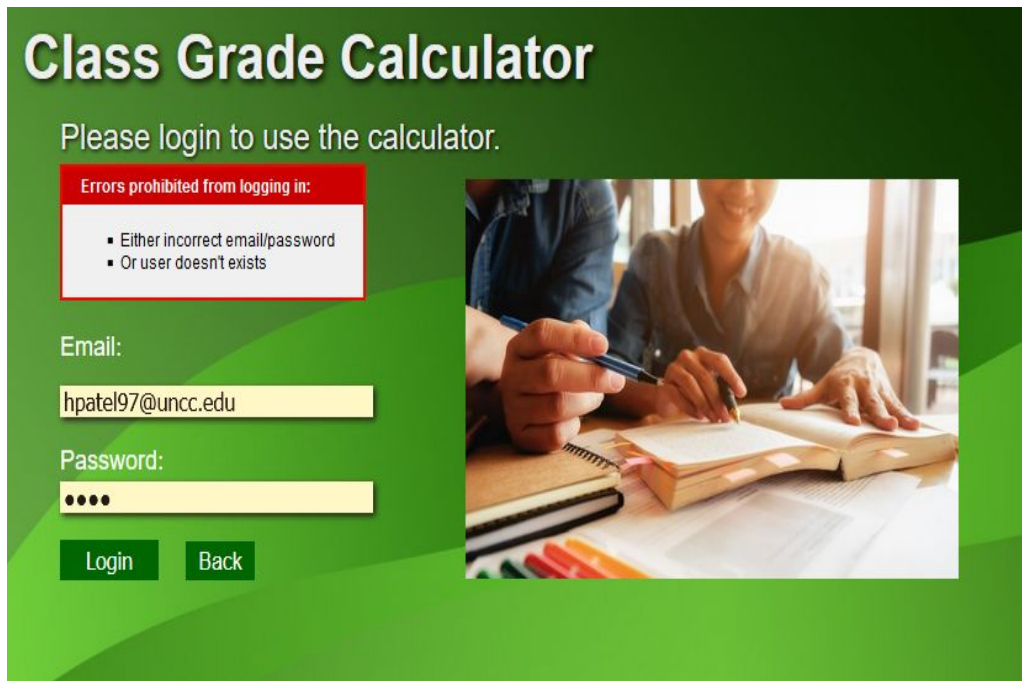
Password:

School name:

The screenshot shows the same sign-up form as above, but with different input. The 'Email' field now contains 'jak@uncc.edu' and the 'Password' field contains 'hpate197@uncc.edu'. A red error message box is displayed above the form, stating '1 error prohibited this user from being saved:' followed by a list item '• Password confirmation doesn't match Password'. The 'View Saved Logins' button is now visible below the password field. The rest of the form and the image on the right are the same as in the previous screenshot.



### *Incorrect Login Credentials*



**Class Grade Calculator**


Please login to use the calculator.

**Errors prohibited from logging in:**

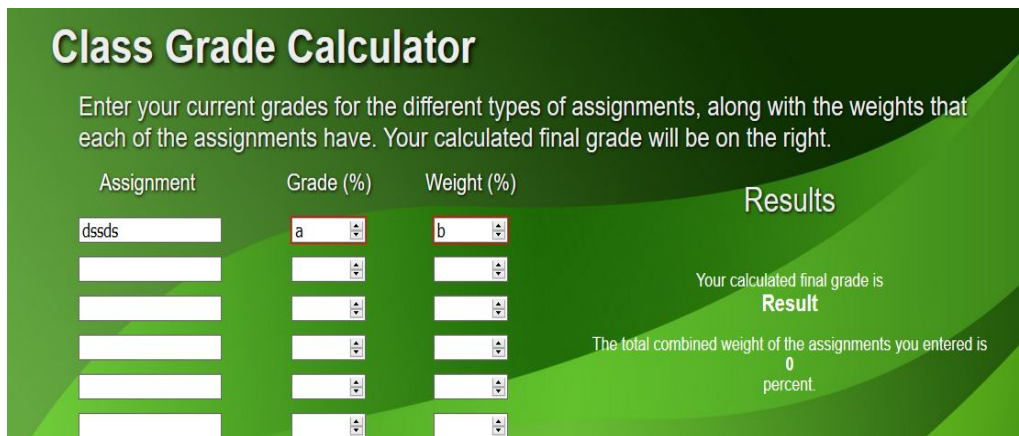
- Either incorrect email/password
- Or user doesn't exists

Email:

Password:



### *Incorrect Grade or Weight Inputs*



**Class Grade Calculator**

Enter your current grades for the different types of assignments, along with the weights that each of the assignments have. Your calculated final grade will be on the right.

Assignment	Grade (%)	Weight (%)
<input type="text" value="dssds"/>	<input type="text" value="a"/>	<input type="text" value="b"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

**Results**

Your calculated final grade is

**Result**

The total combined weight of the assignments you entered is

0 percent

*(can be seen through red outline around the input box)*

### **g. Summary**

Overall the web application aims at creating a user, entering and calculating the grades based on the input, and respective output is displayed under the result section. Finally, the record is saved to the database, and can be easily accessed too.