

ENTREPRENEURSHIP PROJECT

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ACE

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POE 7

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Problem Statement

Academic stress and anxiety is a major issue which is clearly visible amongst the world, our school, and most probably every individual, including anyone who is reading this. As victims of academic stress, it highly impacts one's confidence and ability to perform well on any education related activity ranging from classwork to finals. The nysut institute, a federation formed through a union of professionals, states that the anxiety levels with regards to the student range are “on the rise” when taken into account of a student’s lifestyle, extracurriculars, and capabilities. Furthermore, with the mindset of reducing the tension caused by academics in terms of knowing how much a grade will drop/increase or what college one could enter based off of the SAT/ACT score, the product ACE has been developed.

The initial goal of the website ACE is to help people in the academic field [students, teachers, under graduates, etc] so that the stress caused through the educational aspect could decrease. Moreover, this website is built so that educators could potentially study and apply as much effort to their daily lifestyle according to the desired grade. This contributes towards the element of decrease with respective of the ability of a student to perform better in less stressful environments.

In addition, Michael D. Santos, a psychologist counselor and executive director of Victim Assistance, emphasizes that grade anxiety eventually leads to “rumination” which is ideally thinking about a thing over and over again which is caused by grades when dealing with the academic aspects. Our website is a valid accessibility to aid everyone to work harder and end rumination when it comes to grades mainly due to the fact that the amount of time spent thinking about grades could be efficiently utilized in bringing those grades up. On the other hand, Michael D. Santos pointed out that academic stress usually results in “less efficient cognitive functioning” which is a key major stressed upon throughout the course of one’s education. The whole point of being educated is to gain knowledge and build a foundation based upon one’s choice to pursue, however academic stress has changed the mindsets of one to focus upon the grades rather than the knowledge which is something the website, ACE, diminishes through sufficient utilization of the website.

Research Summary

GPA Calculator

This website includes user inputs which help attain information regarding one's courses in terms of the number of credits, course type, etc. Moreover, this website potentially calculates the weighted and unweighted GPA for any particular grade level. It is essentially a GPA calculator which takes into account of one's letter grades and converts it into an individual grade point average and later totals the amount out of the stand 4.0 GPA.

Grade Calculator

This website utilizes user inputs such as the assignments of that designated class along with the overall percentage of that specific assignment. Once those are filled out, there is a final question which relates towards the overall grade desired in that class. This website includes a lot of user inputs which is one thing to take into account due to one's patience level. As counted, there is a maximum of 17 user inputs, depending upon the number of courses one takes.

RogerHub

The RogerHub website calculates the minimum needed score on the final to reach a desired total grade. The website calculates this percentage by collecting the user's current grade, the desired grade, and how much the final is worth. Unlike our design, this website only calculates the necessary score for a final. Our design includes other functions like calculating GPA, grade changes, etc.

SEMESTER TITLE			
Course Name	Grade	Credits	Course Type
e.g. Math	▼	2 ▼	Regular ▼ ⊗
e.g. Biology	▼	2 ▼	Regular ▼ ⊗
e.g. History	▼	2 ▼	Regular ▼ ⊗
e.g. English	▼	2 ▼	Regular ▼ ⊗
⊕ Add Course			
⊕ Add Semester			

YOUR GPA	
WEIGHTED	UNWEIGHTED
Cumulative	0.00
Semester 1	0.00

Student Grade Calculator		
Assignment #1 Grade:	Percentage of Overall Grade:	%
Assignment #2 Grade:	Percentage of Overall Grade:	%
Assignment #3 Grade:	Percentage of Overall Grade:	%
Assignment #4 Grade:	Percentage of Overall Grade:	%
Assignment #5 Grade:	Percentage of Overall Grade:	%
Assignment #6 Grade:	Percentage of Overall Grade:	%
Assignment #7 Grade:	Percentage of Overall Grade:	%
Assignment #8 Grade:	Percentage of Overall Grade:	%
<input type="button" value="Calculate Your Grade!"/> <input type="button" value="Reset"/>		

Final Grade Calculator

This tool will determine what grade (percentage) you need on your final exam in order to get a certain grade in a class.



Your current grade is %.

You want (at least) a % in the class.

Your final is worth % of your grade.

Weighted Average Grade Calculator

The Weighted Average Grade Calculator calculates the final grade for one class. It collects each category, the weight of each category, and your grade in each category. However, unlike our design, this grade calculator is useless, ineffectual. If the user has all the listed information above (each category, the weight of each category, and the percentage in each category), they probably also have their average grade. Our design calculates possible drops or increases in grades, something a gradebook cannot give you in advance.

Category Name		Percentage in Category		Weight of Category	Contribution
 Delete	<input type="text" value="Category 1"/>	<input type="text" value="0.00"/> %	×	<input type="text" value="0.00"/>	0.00
 Add Category				Total	<input type="text" value="0.00"/> %

Solution Summary

Our website, ACE, is designed to assist students in any grade related calculation as well as college research. This includes finding one's GPA, drop or increases in one's grade and the needed score on the final or any assignment/test to achieve a desired grade. By being informed, students can make better decisions with their time and prioritize what they need to study which will lead to a decrease in stress. Users of ACE will not have to worry about not knowing how much a grade could drop and/or increase or whether their grade can be pulled up. Our website is unique compared to any other grading website due to its capabilities. Unlike others, our website consists of a Final Grader, GPA calculator, Grade Drop/Increase, Test/Assignment Score, and an SAT/ACT college research section all combined into one website. Besides calculations, our ACE website also helps simplify the college search process and set realistic goals for its users.

First, the Final Grader determines what grade is acquired on the final, to reach a desired overall grade. The formula utilized to determine what the final grade needed is:

$$\text{Final Test Score} = \frac{\text{Desired Grade} - (\text{Current Grade} \times (1.0 - \text{Final Weight}))}{\text{Final Weight}}$$

Second, the Grade Drop/Increase is calculated:

$$\text{New Grade} = \text{Current Grade} + \text{Category Weight} \times \left(\left(\frac{\text{Your Test Score} + \text{Collected Category Points}}{\text{Total Test Score} + \text{Total Category Points}} \right) - \text{Category Percentage} \right)$$

Third, The Test Score needed is calculated with formula:

$$\text{Test Score} = (\text{Total Test Pts} + \text{All Category Pts}) \left(\frac{\text{Desired Grade} - \text{Current Grade}}{\text{Category Weight}} + \text{Category \%} \right) - \text{Collected Category Pts}$$

Finally, the unweighted GPA and GPA is mcalculated using the following formulas:

$$\text{Unweighted GPA} = \frac{\text{Grade \#1} + \text{Grade \#2} + \text{Grade \#3} + \text{Grade \#4} + \text{Grade \#5} + \text{Grade \#6}}{6}$$

$$\text{Weighted GPA} = \frac{\text{Grade \#1} + \text{Grade \#2} + \text{Grade \#3} + \text{Grade \#4} + \text{Grade \#5} + \text{Grade \#6}}{6} + \# \text{ of Weighted Courses}$$

The code for our ACE website is in the folder named Entrepreneurship Project Code. The ACE website takes in input and outputs values by having JavaScript embedded in html. We created textbooks, and by using JavaScript, we were able to run those inputs through a series of calculations to find the final output. We also used some css and bootstrap so that the website could fit and display well on a majority of screen sizes as well as adjusting the layout.

Feel free to check out our website [here](#)

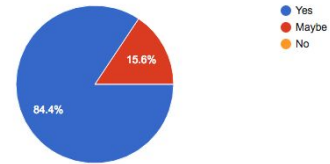
Product Analysis

Marketability

Our solution has the potential to be marketable. Not only is this product desired by its target consumer, but it also very cost efficient. From a survey we did, 84.4% of participants stated they experienced some to a lot of stress due to grades. 71.9% of the participants also stated they experienced some to a lot of stress due to college applications. 84.4% of participants stated a website that calculated “how much your grade will drop/increase” would be helpful. According to this survey, our solution is deemed useful to a majority of the participants for a problem that most students face. The ACE website also has a very low cost. The cost of maintaining a simple website is around 5 dollars per month. We would advertise our solution by asking local schools to promote our website to their students.

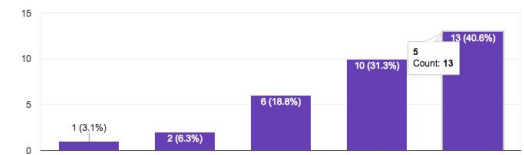
Would you find having a website that calculates how much your grade will drop/increase (along with performing other functions relating to student's grades) helpful?

32 responses



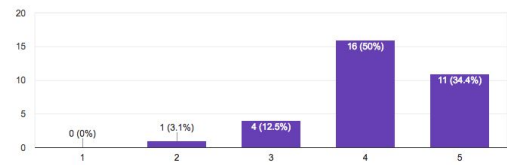
Rate your level of stress concerning college applications.

32 responses



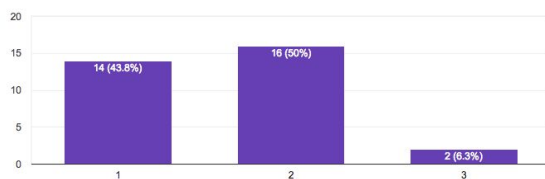
Rate your level of stress due to grades

32 responses



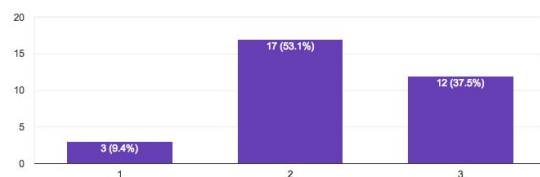
Rate the user functionality/simplicity.

32 responses



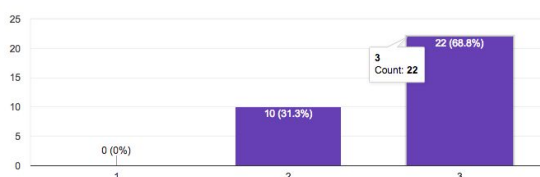
Rate the aesthetic.

32 responses



Rate the practicality.

32 responses



Product Effectiveness

From our survey, majority participants found our solution somewhat user friendly, not aesthetically pleasing, but very practical. Through the results of our survey conducted, 43.8% of our participants said that our website is simple in terms of the functionality. Although, 53.1% of the participants claimed that the website wasn't quite aesthetically pleasing. All things considered, our survey portrays the fact that our website is easy to navigate to and is practical. However, if given the time, we would improve the overall layout, aesthetics, and how easy the website is to use. We would do this by using more JavaScript or CSS to make the website more appealing. We would also look to find a way for the user to store his/her information, so that users would not have to reinput his/her information every calculation.

Key Contributors Page

Chloe Bercy

During the brainstorm process, my idea for calculating grade drop/increase was chosen to be the final idea. I used to do these calculation by hand on paper, so I used my previous formulas to code the pages that involved calculations (like GPA.html, Grade.html, Test.html and Final.html). I also coded the home page which linked to the more informative pages, which Khushi coded. I also wrote the section on marketability in the product analysis and worked with Khushi to write the solution summary. Smaller tasks I did include creating the presentation, uploading the video, uploading the code, creating the survey and citing our sources using MLA.

Khushi Saini:

As the project manager of this project, I made sure our group stayed on task and completed goals within a given time range. Moreover, I worked on the overall layout of the website in terms of the buttons, design and efficiency by using css and bootstrap to change certain aspects such as the class, id, color, etc. Also, I worked incorporating college aspects within our website such coding the SAT/ACT section along with the GPA calculator. Also, I coded the community courses section through the use of the coding language javascript embedded within html. Moreover, I did all the research for the possible colleges as well as the courses available for a specific limit of options as well as the prior solutions such as rogerhub, GPA calculator, etc. In addition, I worked on the product analysis (product effectiveness portion) Lastly, I helped Chloe write the solution summary with regards to the coding aspect and briefly stating the purpose of our solution.

References

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