CIS-11 Project Documentation Template

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Grade Calculator
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Part I – Application Overview

Are you a teacher who wants to help bring your students' grades up? Are you a principal who wants to know how well their teachers' classes are performing? Are you a student who wants to improve their academic skills. We at SQUAD have the tool for you. Our test score calculator will help you to identify how well you/your students are doing and what areas may need improvement.

Objectives

To make analyzing average test grades easier.

Average test scores can be a useful tool to help grasp how well a person/class is doing, but it can be time consuming to be sure. Our calculator aims to help ease that process and make finding weak areas easier.

To present how well a group of students are performing

Nobody is perfect and we want to improve/help others improve, we need to identify our week areas and better learn for the future.

Why are we doing this?

- **We wish to help improve the workflow of teachers and help them best understand how to teach their students. If teachers can understand where students struggle most, they can improve their assignments and better help students grasp the concepts they are presenting. And we also wish for students to use our program to identify their weak areas and improve their skills.**

- **We are doing this project now because without a tool like this. People will have trouble improving as they won't easily identify weaknesses.**

Business Process

Most of the time when people want to see the average grade, they must input their scores into a regular calculator. Our test score calculator will be designed with tests in mind. Instead of taking the numbers, keeping track of them, and dividing them yourself, our calculator will do all the hard work for you, just put in the numbers and it will display the results.

User Roles and Responsibilities

Our program's intended users are educators who wish to see where their students are struggling and student who wish to improve their own skills.

For teachers it can be time consuming to grade work. Our program will aim to give teachers more time by cutting out the work of grading and giving them more time to analyze how well their students on average do on the tests that they give them. And with more time to analyze they can see where students struggle most and adapt accordingly

For students it can feel hard to understand why they struggle in school. For some all they need is the numbers laid out Infront of them. Our program will allow students to see what they are good at and where they need improvement. By letting them input the scores of tests they have taken they can better understand where they excel, where they need improvement, and how this impacts their academic studies overall.

Production Rollout Considerations

To rollout production we hope to bring awareness of our program by using advertising on sites like YouTube aimed at teachers and students. Then we will offer a trial version of our software that will allow the user to input 5 scores. And if the user is interested then we will offer a paid version that will allow the user to input more.

Terminology

Workflow – sequence of steps to complete a process.

Rollout – the process of introducing a new product.

Adapt – to make something suitable for a purpose.

Part II – Functional Requirements

Statement of Functionality

What we have available now is the previously mentioned trial version in which you will only be able to insert 5 scores at a time. Once you type in the scores for 5 tests it will automatically display the minimum, maximum, and average letter grade of the submitted tests.

So, for example if you were to put in the values 56, 90, 88, 94, 72 it would display the highest as A (94) the lowest as F (56) and the average as B (80).

The values inputted must be the percentage score of the test. This is not meant to calculate how many points a test is worth, only how well the student(s) do on tests on average.

For teachers this is meant to make analyzing how well students do on test on average easier so they can study the data.

For students this is meant to analyze their own expertise and how to improve it.

Scope

As of now we are currently testing to see how well this does to see if it is worth developing further. Assuming this is a success, we may add more features in the future.

However, at the current state of development it is only capable of what is listed above.

Performance

Our program is super easy to use. All you need to do is input the numbers and it will do the math for you. Presenting the highest grade will help to keep track of subjects you already do great in. Presenting the lowest grade, so that you can see where you may need improvements in your studies. And finally, the average grade to see how this impacts your performance overall.

The program will calculate these numbers in a matter of seconds if not less.

Usability

To use this program all you will need to do is download our trial version and click the run file to set it up. This will only work on a desktop or laptop. Will not work on smart devices as of now.

Documenting Requests for Enhancements

There does come a time when the requirements for the initial release of your application are frozen. Usually, it happens after the system acceptance test which is the last chance for the users to lobby for some changes to be introduced in the upcoming release.

Currently, you need to begin maintaining the list of requested enhancements. Below is a template for tracking requests for enhancements.

Date	Enhancement	Requested by	Notes	Priority	Release No/ Status

Part III – Appendices

You may be wondering if this will be useful to people outside of teachers and students. Well, we believe that there are more who could benefit from our calculator. Like for example school administrators who want to see how well students are doing in a specific teacher's classroom. Also, parents who want to help their children study for future tests. We beleave our program will be beneficial to everyone who wants to help students improve.

Flow chart or pseudo-code.

Include branching, iteration, subroutines/functions in flow chart or pseudocode.