School of Computing & Information Sciences
Spring 2022 Senior Design Project

Grady – Grading AI System

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PROBLEM

- The problem that is meant to be solved with Grady is to optimize the trade off between the advantages and disadvantages of both the absolute scale and the grading curve.
- The main focus this semester was to improve the user interface experience.

CURRENT SYSTEM

- Input
  - The user is required to enter the number of students, number of grades, the grades themselves, including the range and probability of each.
- Algorithm
  - The system uses a complex algorithm in algorithm5.java to bring the optimal solution to the grading problem.
- Output
  - The output shows the scores or grades given by the user and their respective grade.

REQUIREMENTS

- Safari, Internet Explorer, Google Chrome or any other internet platform in which we can run grady.ddns.net/pages/forms.php?success=1

SYSTEM / OBJECT DESIGN

- System uses JavaScript to create a user-friendly web browsers
- Embedded in the JavaScript code PHP is used create the forms, store values and display output.
- System implements an innovative way of giving a curve to a group of students.

SCREENSHOTS

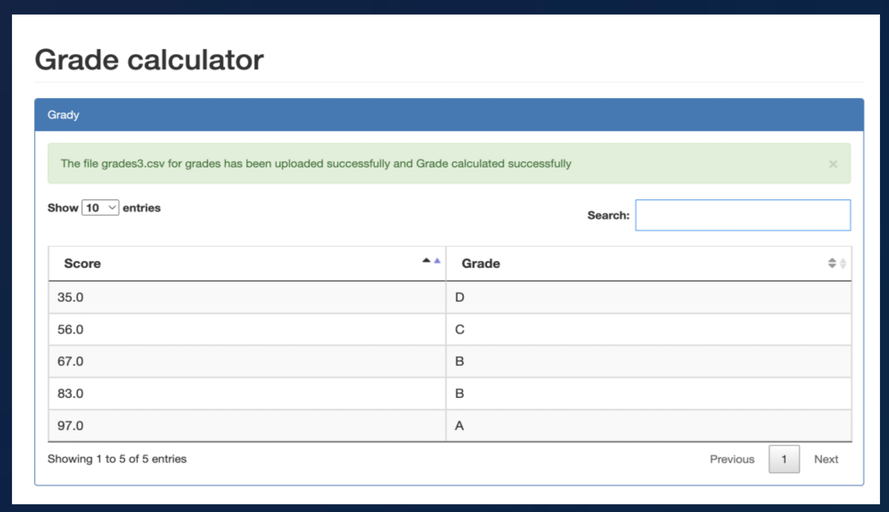

Figure 1 (above) showcases an example of a final output. We can see the scores on the left side and the grade that respective score falls under.

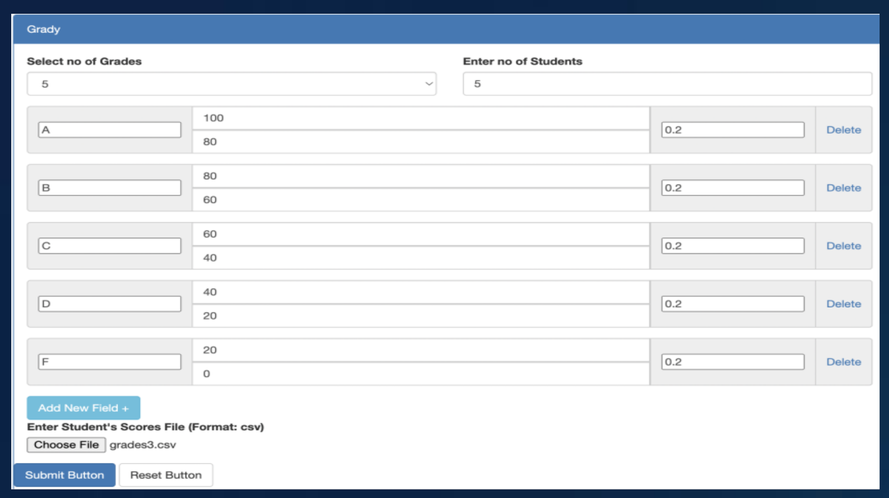

Figure 2 (above) showcases the user interface. This is the page where the user is asked to enter the values.
Here is an example of what a final input would look like.

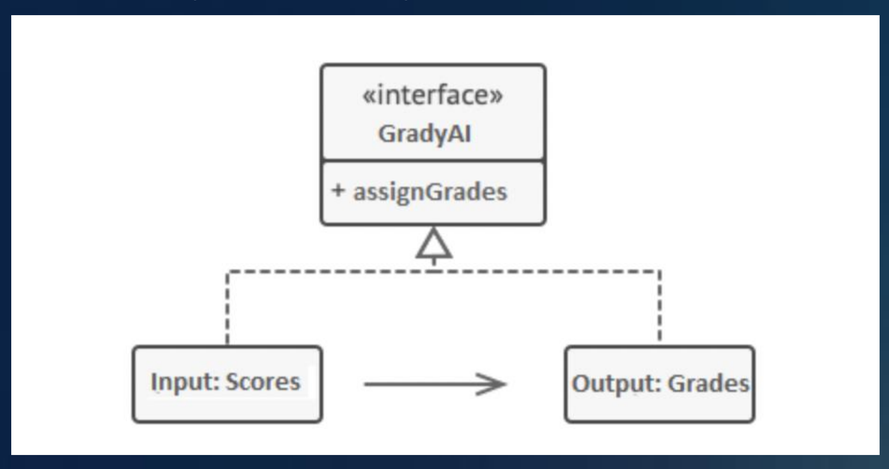

Figure 3 (above) displays high level overview of how the GradyAI interface works.

IMPLEMENTATION

- Throughout the semester several changes were implemented to make the user interface a better experience.
- We changed the color of the "5" in the "Enter no of Students" from gray to black. The gray gave the user the impression of being constant, which is not the case.
- The "Select no of Grades" field was changed to a dropdown menu. Making it easier for the user to see options and choose.
- The biggest improvement made this semester was implementing PHP sessions to the code in order to save the value after a change has been done.

TECH USED

SUMMARY

- GradyIA interface gives the user a perfect solution the grading dilemma.
- Using this interface gives teachers an optimization between a grading curve and an absolute scale.
- Future developers for this project now have access to a more efficient forms.php and test.php as well as a better overall user-interface.

ACKNOWLEDGEMENT

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