CIS-11 Proejct Documentation

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Project Name: Test Score Calculator
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Part I - Application Overview - The Test Score Calculator is designed to automate test scores and get the average.

Objectives - Accuracy - Ensure that test scores are calculated correctly. Efficiency - Automate the process to save time and reduce manual effort.

Business Process - Reducing the time teachers spend on calculating and recording scores and minimizing errors in score calculations.

User Roles and Responsibilities - Jonny - Code, testing, and documentation. Trent, GitHub, Final Review, and team creation.

Production Rollout Possibilities - Display on GitHub and submit for final project.

Part II - Functional Requirements - The application will gather students' scores from manual input and automatically do the math to find the average of all the student scores.

Statement of Functionality - The program gathers manual input from the user regarding test scores results. Then, it stores the data to be displayed at the end of the program showing the average test score.

Scope - Input - The user will manually input test scores. Processing - This will take the average between the inputted scores. Output - Shows average score on inputted tests.

Performance - 10 students will take around less than 1 second.

Part III - Appendices - Example: The user wants to find the average of their past 3 exams, they input 50, 75, and 100. The Test Score Calculator will show them their average exam score will be 75/100.

Flow Chart or Pseudocode -
1. Initialization: variables such as "NUM_STUDENTS", "TOTAL_SCORE", "STUDENT SCORE", and "AVG SCORE" are all set to 0.
2. User Input - Ask the user to input test scores. Store the input in "NUM_STUDENTS"
3. Score Input - Loop from 1 to "NUM_STUDENTS", add score to "TOTAL_SCORE"
4. Average Calculations - If "NUM_STUDENTS" is greater than 0, calc avg by adding all "TOTAL_SCORE" and dividing by "NUM_STUDENTS"

5. Displays total and average scores