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**Semester: First**

**Subject: C++**

**Proposal for Student Grade Management System**

**Objective:** The **Student Grade Management System** is designed to efficiently manage and track student grades, providing a simple way to record and evaluate academic performance. The system will allow users to input student names, grades, and determine whether each student has passed or failed based on their grades.

**Features:**

1. **Student Registration**: Allows the input of student names and their corresponding grades.
2. **Grade Evaluation**: Automatically determines if the student has passed or failed based on the grade entered (pass criteria: grade ≥ 50).
3. **Result Display**: Shows a list of students along with their grades and evaluation results (Pass/Fail).
4. **Simple User Interface**: Console-based interface for easy interaction, input, and display of data.

**Target Audience:** This system is aimed at educational institutions or instructors who want a simple, effective tool to track and manage student performance without the need for complex software.

**Technology:**

* **Programming Language**: C++
* **Libraries Used**: iostream (for input/output), string (for handling names)
* **Data Structure**: Arrays (for storing student data)

**Benefits:**

* Efficient grade management for teachers and administrators.
* Easy-to-use interface for students to check their results.
* Reduces manual effort in tracking and evaluating student performance.

**Scope for Future Enhancement:**

* Adding features like saving results to a file.
* Incorporating a graphical user interface (GUI).
* Supporting multiple subjects and overall GPA calculation.