Grading System

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Chapter 1

Introduction

In today's academic landscape, keeping student grades organized and accurate is more essential than ever. Schools face the challenge of managing large volumes of student records, and relying on manual methods—like paper logs or spreadsheets—often leads to errors, lost data, and inefficiencies. These issues can disrupt the evaluation process and affect how students are assessed, ultimately impacting their academic growth and potential.

This study was prompted by the common difficulties educators face when manually storing, computing, and monitoring student grades. Traditional approaches are prone to mistakes such as miscalculations, duplicated entries, or misplaced records. These setbacks not only reduce teacher productivity but also compromise the reliability of student assessments and academic reporting.

By developing a simple Python-based grading system, this research aims to offer a practical solution that streamlines grade management. The system will automate calculations, reduce human error, and make student records easier to access and update. It will also support educators in maintaining accurate and organized data, saving time and improving the overall efficiency of academic workflows

The main goal of this project is to create a user-friendly grading tool that allows users to add, modify, and view student records with ease. This system will serve as a reliable resource for both teachers and students, ensuring that academic information is handled with precision and care. Through automation and simplicity, it hopes to enhance the way educational institutions manage student performance.

General Problem

Teachers often struggle with keeping student grades accurate and organized when using manual methods like paper or spreadsheets. These old ways can lead to mistakes, lost records, and confusion. This study aims to create a simple grading system using Python that makes it easier to record, compute, and manage grades—saving time and reducing errors for both teachers and students.

Specific Problems

1. Recording Grades Easily

How can we help teachers record grades for many subjects without using paper or spreadsheets?

2. Correct Grade Calculation

How can we make sure grades are always calculated correctly, without manual errors?

3. Avoiding Duplicate Records

How can we stop the system from saving the same student record more than once?

4. Easy Access and Editing

How can users quickly view, update, or delete student records when needed?

5. Automatic Overall Grade

How can the system automatically compute a student's general grade to help with performance evaluation?

General Objective

This study aims to build a simple and reliable grading system that makes it easier for teachers to record, compute, and manage student grades. By automating the process, the system helps reduce errors, avoid duplicate records, and give quick access to student information—making academic evaluation smoother and more accurate for both educators and students.

Specific Objective

1. Efficient Grade Entry

Create a system that lets users easily add and store grades for different subjects.

2. Accurate Grade Calculation

Make sure the system computes grades and scores correctly using a clear grading scale.

3. Clean and Unique Records

Prevent duplicate entries and keep student records accurate and organized.

4. Easy Viewing of Records

Allow users to quickly see all student details, including grades, percentages, and overall performance.

5. Simple Editing Tools

Let users update or delete student records anytime to keep the database up to date.

Scope

This grading system is built to help teachers easily record, manage, and compute student grades across different subjects. With this tool, users can:

- Add student details like name, ID, and subject grades
- Automatically calculate equivalent scores and overall grades
- View all student records, including individual grades and total performance
- Delete records when needed to keep the database clean and organized

It's designed to make grading faster, more accurate, and less stressful for educators.

Limitation

While the system offers helpful features, it also has a few limitations:

- It doesn't save data permanently records disappear when the program closes unless upgraded with file or database storage
- It doesn't include charts, graphs, or long-term performance tracking
- There's no login system or user roles (like teacher vs. admin)
- It doesn't send alerts for low grades or missing entries

This version focuses on simplicity and core grading functions, with room to grow in future updates.

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