

D. Y. Patil College of Engineering and Technology, Kolhapur
Department of Computer Science & Engineering

Class: SY-A

Subject: AOOOC

Experiment no: 15

Group No. G 26

Mini Project

Title of Mini-Project:

Student average calculator

Group Members:

Unique id	Roll No	Name of Student	Sign
EN23235186	104	Sneha Pandurang Bamane	
EN23184486	120	Pragati Shantilal Shendage	
EN23198398	121	Akshata Dattatray Malavi	
EN23242857	122	Sanika Govind Mane	

Problem Statement:

1. Manual Calculation Errors: Manual calculation of student percentages and grades can lead to errors, which can be time-consuming to identify and correct.
2. Time-Consuming Process: Calculating student percentages and grades manually can be a tedious and time-consuming process, taking away from other important tasks.

Introduction:

The Student average Calculator is a web application designed to simplify the process of calculating student results. It provides a user-friendly interface for inputting student information, including name, roll number, and marks for 3 subjects. The application

automatically calculates the percentage and grade based on the marks entered, eliminating the need for manual calculations.

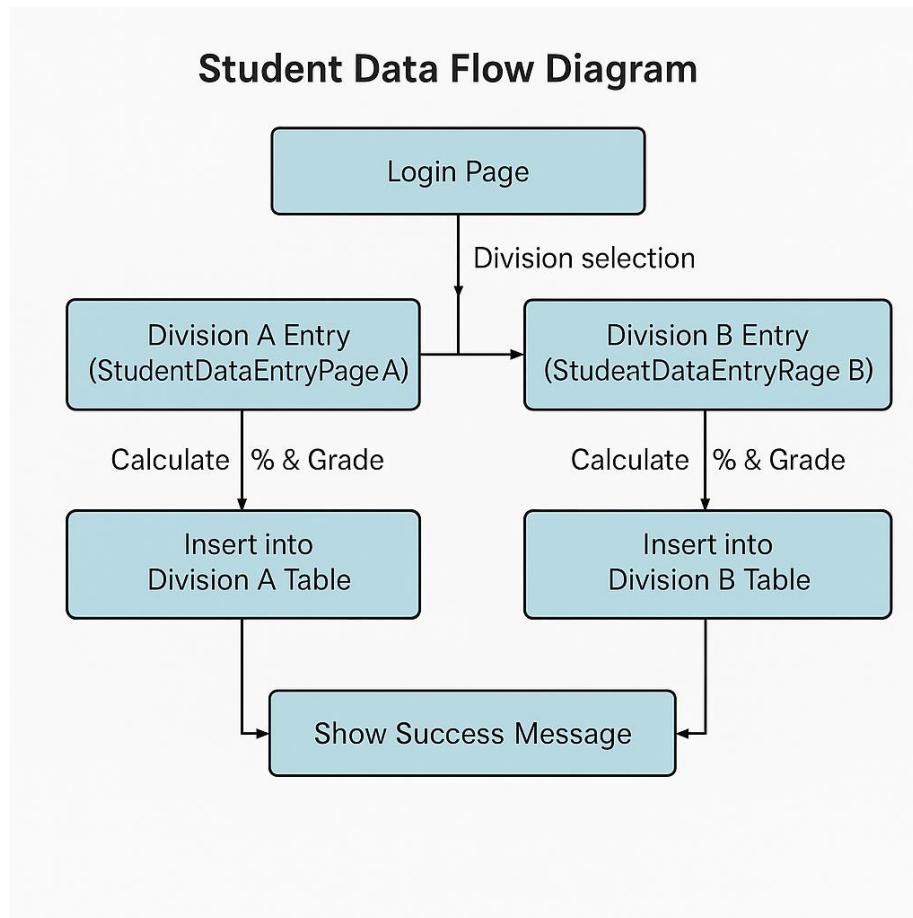
Key Features

1. Student Information Management: Input and store student information, including name, roll number, and marks for multiple subjects.
2. Automatic Percentage Calculation: Calculate percentages based on marks entered, reducing errors and saving time.
3. Grade Calculation: Determine grades based on predefined grading scales, ensuring consistency and accuracy.
4. Result Display: Display student results, including percentage and grade, in a clear and concise manner.

Benefits

1. Accuracy: Automated calculations reduce the likelihood of errors.
2. Efficiency: Streamlined process saves time and effort.
3. Transparency: Easy access to results promotes transparency and accountability.
4. Progress Tracking: Enables tracking of student progress, helping identify areas for improvement.

System Architecture:



Module description or working of system:

1. Student Information Module

- Functionality: Allows users to input and store student information, including name, roll number, and marks for multiple subjects.

- Features:

- Input fields for student name, roll number, and marks

- Validation checks for ensuring accurate data entry

2. Calculation Module

- Functionality: Automatically calculates the percentage and grade based on the marks entered.

- Features:

- Percentage calculation based on total marks

- Grade calculation based on predefined grading scales

3. Result Display Module

- Functionality: Displays the student's result, including percentage and grade.

- Features:

- Clear and concise display of student results

- Option to print or save results

4. Data Storage Module

- Functionality: Stores student results securely, allowing for easy retrieval and tracking of student progress.

- Features:

- Secure data storage using a database

- Option to retrieve and view previous results

▣ System Working Flow

1. User Accesses Website

- User launches the website and accesses the result calculator page.

- The website's GUI is displayed, allowing users to input student information.

2. Student Information Input

- User enters student information, including name, roll number, and marks for multiple subjects.

3. Calculation

- The system calculates the percentage and grade based on the marks entered.
- The calculation is performed automatically, reducing errors and saving time.

4. Result Display

- The system displays the student's result, including percentage and grade.
- The result is displayed in a clear and concise manner, making it easy to understand.

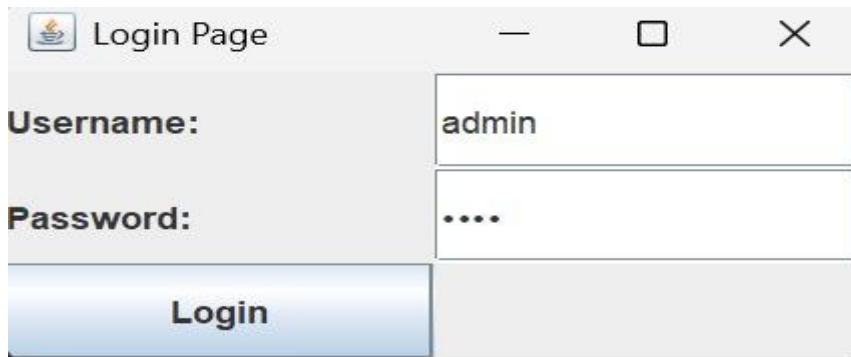
5. Result Storage (Optional)

- The system stores the student result securely, allowing for easy retrieval and tracking of student progress.
- The stored results can be used for future reference or analysis.

6. Output

- The user can view, print, or save the student result for their records.
- The system provides a convenient and reliable way to calculate and manage student results.

Screenshots:





Enter Student Data - Division B

Roll No:	34
Name:	Prajyot
Mark 1:	90
Mark 2:	93
Mark 3:	92

Submit

Roll No: 67

Name: Message X

Mark 1:  Student data added successfully!

Mark 2: OK

Mark 3: 90

Submit

Result Grid								Filter Rows:	Edit:	Export/Import:	Wrap Cell Content
	roll_no	name	mark1	mark2	mark3	total	percentage	grade			
▶	34	Tejal	90	92	93	275	91.6667	A+			
	67	Pranjali	89	78	90	257	85.6667	A			
	120	prajyot	90	93	92	275	91.6667	A+			
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL			

