

# AVERAGE CALCULATOR (UMP) – APP

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## OVERVIEW:

The Smart Grade Calculator is a sophisticated and user-centric web application crafted to empower users in efficiently managing and calculating grades across multiple subjects. Whether you're a student tracking your academic performance or an educator evaluating student progress, this application offers a seamless and intuitive experience. The application is designed to be fully responsive, ensuring a consistent and accessible user interface on devices ranging from desktop computers to tablets and mobile phones.

### Key Features

1. **Grade Management:** The application allows users to input subject names and corresponding grades seamlessly. The interface is user-friendly, enabling quick and error-free data entry.
2. **Real-Time Updates:** Users experience real-time updates on the grades list and the calculated average as they add or remove grades. This dynamic feature provides instant feedback and facilitates on-the-fly decision-making.

3. **Subject-Specific Details:** Each entry in the grades list is accompanied by a "Delete" button, allowing users to remove specific subjects effortlessly. This feature enhances the granularity of grade management.
4. **Average Calculation:** The Smart Grade Calculator dynamically calculates and displays the average of all entered grades, providing a comprehensive overview of academic performance.
5. **Congratulatory Alerts:** Users receive congratulatory alerts based on their performance. If a user achieves a grade of 75 or higher, they are greeted with a message congratulating them on passing with distinction. Similarly, achieving a grade of 50 or higher prompts an alert for passing the module.
6. **Responsive Design:** The application's responsive design ensures an optimal viewing and interaction experience across various screen sizes and devices. Users can seamlessly access and utilize the application on desktops, laptops, tablets, and smartphones.

### Use Cases

- **Students:** Students can use the Smart Grade Calculator to keep track of their grades across different subjects, monitor their academic progress, and set goals for improvement.
- **Educators:** Educators can utilize the application to efficiently manage and analyze the grades of their students. The dynamic nature of the application allows for quick adjustments and insights.
- **Parents:** Parents can gain insights into their child's academic performance by using the Smart Grade Calculator. The application facilitates better communication between parents and educators.

### Advantages

- **Efficiency:** The intuitive design of the Smart Grade Calculator streamlines the grade management process, saving users time and effort.
- **Transparency:** Real-time updates and detailed subject-specific information provide users with a transparent view of their academic performance.
- **Motivation:** The congratulatory alerts serve as positive reinforcement, motivating users to strive for academic excellence.

In summary, the Smart Grade Calculator is not just a tool for calculating grades; it's a comprehensive solution that fosters efficient, transparent, and motivational grade management for students, educators, and parents alike. This documentation serves as a guide to help users navigate and maximize the potential of this versatile application.

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# GETTING STARTED:

To make the most of the Smart Grade Calculator, follow these comprehensive steps to navigate through the application seamlessly:

#### 1. **Open the Application:**

- Launch your preferred modern web browser on your device.
- Enter the URL of the Smart Grade Calculator application in the address bar and press Enter to access the application.

#### 2. **Input Subject Name:**

- Once the application is open, you will be greeted with a clean and intuitive interface.
- Locate the "Enter subject name" input field. Click or tap on the field to activate it.

- Type in the name of the subject for which you want to input a grade. Ensure accuracy and clarity in entering the subject name.
3. **Enter the Grade:**
    - Direct your attention to the adjacent "Enter grade" input field.
    - Input the corresponding grade for the subject you specified in step 2. The grade must fall within the valid range of 0 to 100.
    - Ensure that you enter a numerical value within the specified range for accurate calculations.
  4. **Add Grade to the List:**
    - Once you have provided the subject name and grade, look for the "Add Grade" button.
    - Click or tap the "Add Grade" button to include the subject and its corresponding grade in the list.
  5. **Repeat for Additional Subjects:**
    - If you have more subjects to add, repeat steps 2-4 for each additional subject.
    - The application accommodates multiple entries, allowing you to manage grades for various subjects in one session.
  6. **View Grades and Average:**
    - After adding grades for all desired subjects, shift your focus to the result container.
    - Here, you will find a comprehensive list of entered grades, with each entry displaying the subject name, grade, and a "Delete" button for removal if needed.
    - The calculated average of all entered grades is prominently displayed in the result container, providing a quick snapshot of overall academic performance.

# **USAGE:**

The Smart Grade Calculator simplifies the process of adding and managing grades. Below are detailed instructions on adding grades and removing them as needed.

## **Adding Grades**

1. **Enter Subject Name:**

- Locate the "Enter subject name" field within the application.
  - Click or tap on the field to activate it.
  - Input the name of the subject for which you want to add a grade.
- 2. Enter the Grade:**
- Direct your attention to the adjacent "Enter grade" field.
  - Click or tap on the field to activate it.
  - Input the corresponding grade for the subject. It is crucial to enter a numerical value within the valid range of 0 to 100.
- 3. Click "Add Grade":**
- Find and click the "Add Grade" button.
  - This action will add the entered subject name and grade to the list.
- 4. Repeat for Additional Subjects:**
- If you have more subjects to add, repeat steps 1-3 for each additional subject.
  - The Smart Grade Calculator supports the addition of multiple subjects for comprehensive grade tracking.

### **Removing Grades**

- 1. Locate the "Delete" Button:**
- In the list of entered grades, each entry is accompanied by a "Delete" button.
  - Identify the grade entry that you wish to remove.
- 2. Click "Delete" to Remove:**
- Click or tap the "Delete" button next to the grade entry you want to remove.
  - This action will instantly remove the selected grade from the list.
- 3. Repeat as Needed:**
- If you have multiple grades to remove, repeat steps 1-2 for each entry you wish to delete.
  - The Smart Grade Calculator provides the flexibility to manage and adjust grades according to your requirements.

# **FEATURES:**

The Smart Grade Calculator offers several user-friendly features to enhance the grade management experience. Below are detailed descriptions of two prominent features: the Grade List and the Average Calculation.

## Grade List:

### **Display of Entered Subjects and Grades:**

- The application prominently showcases a comprehensive list of all entered subjects and their corresponding grades.
- Each entry in the list is presented in a clear and organized format, providing users with a quick overview of their academic performance.

### **Subject-Specific Information:**

- The Grade List includes subject-specific details, allowing users to identify each entry easily.
- Subjects are listed alongside their respective grades, promoting transparency and clarity in grade management.

### **Interactive "Delete" Button:**

- For each entry in the Grade List, a dedicated "Delete" button is provided.
- This interactive feature enables users to selectively remove specific subjects and their corresponding grades from the list.

### **Efficient Grade Management:**

- The Grade List feature streamlines the process of managing entered grades, offering users a centralized view of their academic performance.
- Users can review, update, and adjust grades as needed, fostering an efficient and user-centric experience.

## Average Calculation:

### **Dynamic Average Display:**

- The Smart Grade Calculator dynamically calculates and displays the average of all entered grades.
- This real-time feature ensures that users have instant access to their overall academic performance, facilitating informed decision-making.

### **Clear Presentation:**

- The calculated average is presented in a clear and concise manner, allowing users to grasp their overall performance at a glance.
- The average is expressed as a percentage, providing users with a standardized metric for evaluating their academic achievements.

### **Automatic Updates:**

- As users add or remove grades, the Average Calculation feature automatically updates to reflect the current average.
- This dynamic functionality enhances the user experience by providing accurate and up-to-date information.

### **Motivational Alerts:**

- The Average Calculation feature triggers congratulatory alerts based on the user's performance.
- Users receive positive reinforcement through alerts for passing with distinction (grade  $\geq 75$ ) and passing the module (grade  $\geq 50$ ).

## **Responsive Design:**

The Smart Grade Calculator places a strong emphasis on providing a responsive and adaptive user interface, ensuring an optimal experience across various devices. This feature enables users to seamlessly access and utilize the application on desktops, laptops, tablets, and mobile phones.

### **Consistent User Experience:**

- The layout and functionality of the Smart Grade Calculator remain consistent across different screen sizes and resolutions.
- Users can expect a seamless and intuitive experience, regardless of the device they are using.

#### **Adaptive Layout:**

- The application's layout adapts dynamically to different screen dimensions, optimizing the user interface for each device.
- This adaptive design promotes user engagement and usability, catering to a diverse range of users.

#### **Usability on Desktops, Tablets, and Phones:**

- Whether accessed from a desktop computer, tablet, or smartphone, the Smart Grade Calculator offers a user-friendly interface.
- Users can conveniently manage their grades and monitor their academic progress using their preferred device.

#### **Enhanced Accessibility:**

- The responsive design contributes to enhanced accessibility, allowing users to interact with the application effortlessly on various platforms.
- Font sizes, button placements, and overall usability are carefully designed to accommodate different screen sizes.

# **User Requirements**

## **System Requirements:**

To ensure optimal performance and functionality, users need the following:

#### **A Modern Web Browser:**

- The Smart Grade Calculator is compatible with popular web browsers such as Google Chrome, Mozilla Firefox, Safari, and others.



- Users are encouraged to use the latest version of their preferred browser for the best experience.

## User Expectations:

Users of the Smart Grade Calculator have specific expectations regarding the application's functionality and usability:

### Intuitive Interface:

- Users expect a user-friendly and intuitive interface that simplifies the process of entering subject names and grades.
- The design emphasizes clarity and ease of use, catering to users with varying levels of technical expertise.

### Dynamic and Real-Time Updates:

- Users anticipate dynamic and real-time updates of the grades list and average as they interact with the application.
- The system is designed to provide immediate feedback, enhancing the user's sense of control and engagement.

### Responsive Design Across Devices:

- Users expect a responsive design that ensures a consistent and enjoyable experience on different devices.
- The application's adaptability contributes to user satisfaction and accessibility.

### Clear Alerts for Achievement:

- Users look for clear alerts indicating their achievement, particularly congratulatory messages for passing with distinction (grade  $\geq 75$ ) and passing the module (grade  $\geq 50$ ).
- Positive reinforcement through alerts motivates users to strive for academic excellence.

# Limitations:

While the Smart Grade Calculator offers a range of valuable features, it does have some limitations:

## **Non-Persistent Grade Storage:**

- The application does not store entered grades persistently. Grades are lost upon page refresh or closing the browser.
- Users are advised to take note of important grades externally if long-term storage is required.

## **Lack of Save and Export Functionality:**

- The application does not support saving or exporting entered data.
- Users should be aware that the application is designed for real-time calculation and review rather than long-term data retention.

# CONCLUSION:

In summary, the Smart Grade Calculator is a versatile and user-centric tool designed to simplify the process of managing and calculating grades. The application's core strengths lie in its user-friendly interface, responsive design, and feature-rich functionality that meets the expectations of its diverse user base.

# Key Points

## **1. User-Friendly Design:**

- The Smart Grade Calculator prioritizes user experience with an intuitive design that facilitates easy navigation and interaction.

## **2. Responsive Design for Accessibility:**

- The application's responsive design ensures a seamless user experience across various devices, including desktops, tablets, and mobile phones.
3. **Feature Alignment with User Expectations:**
    - The features of the Smart Grade Calculator align closely with user expectations, offering real-time updates, an intuitive interface, and clear achievement alerts.
  4. **Achievement Alerts for Motivation:**
    - The inclusion of congratulatory alerts based on achievement levels adds a motivational element, encouraging users to excel academically.
  5. **Limitations for User Consideration:**
    - Users are advised to be mindful of the application's limitations, such as non-persistent grade storage and the lack of save/export functionality. Understanding these limitations allows for more effective usage.
  6. **Quick Overview of Academic Performance:**
    - The Smart Grade Calculator excels in providing users with a quick overview of their academic performance through a dynamically calculated average and a detailed list of entered grades.
  7. **Adaptive User Experience:**
    - The application's adaptability to different screen sizes and devices enhances its accessibility, offering an adaptive user experience that caters to a diverse audience.

## User Guidance

As users engage with the Smart Grade Calculator, it is recommended to consider the following:

- **Regular Check-Ins:**
  - Periodically review entered grades and the calculated average to stay informed about academic progress.
- **External Record Keeping:**
  - Given the non-persistent nature of grade storage, users may consider external record-keeping if long-term data retention is desired.
- **Adapt Usage to Limitations:**
  - Adapt the usage of the application to accommodate its limitations, particularly regarding grade persistence and data export.

In conclusion, the Smart Grade Calculator is an invaluable companion for users seeking a straightforward and efficient approach to grade management. Its commitment to user satisfaction, coupled with its

responsive design and thoughtful features, positions it as a reliable tool for academic performance tracking.