

## Experiment No. 4

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**AIM:-** To create an interactive Form using form widget

### **Theory:-**

In this experiment, we have developed a BMI Calculator App using Flutter, a UI toolkit for building cross-platform applications. The app utilizes form widgets to collect input from the user, such as age, weight, and height. It then calculates the BMI using the standard formula:

$$\text{BMI} = \frac{\text{Weight (kg)}}{\left( \frac{\text{Height (cm)}}{100} \right)^2}$$

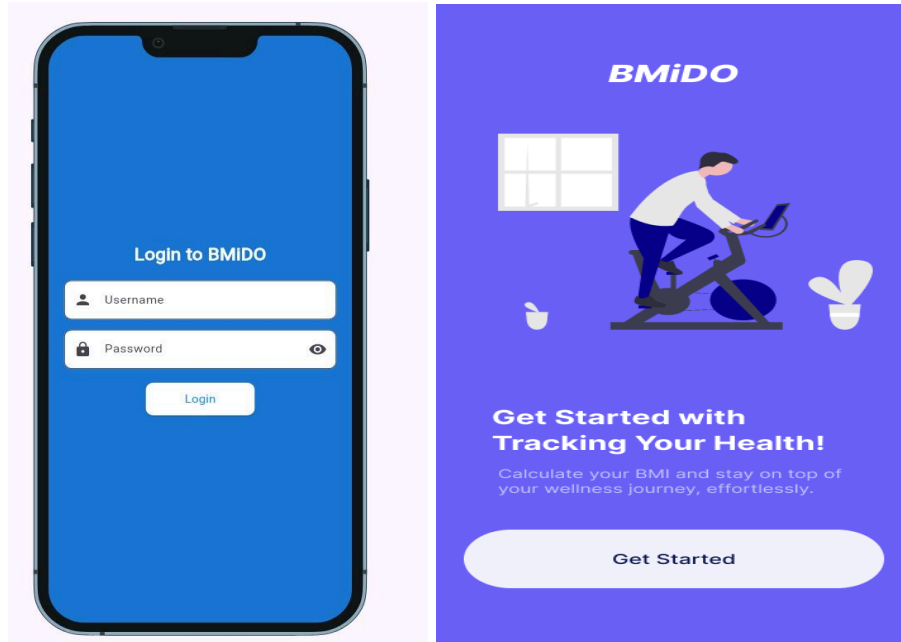
Once the user taps on "Calculate BMI", the result is displayed along with a health status (like underweight, normal, overweight). This app demonstrates the use of `TextFormField`, buttons, state management, and user input validation — key aspects when working with forms in Flutter.

### **Screenshots:-**

Below are the screenshots showing different stages of the BMI Calculator app:

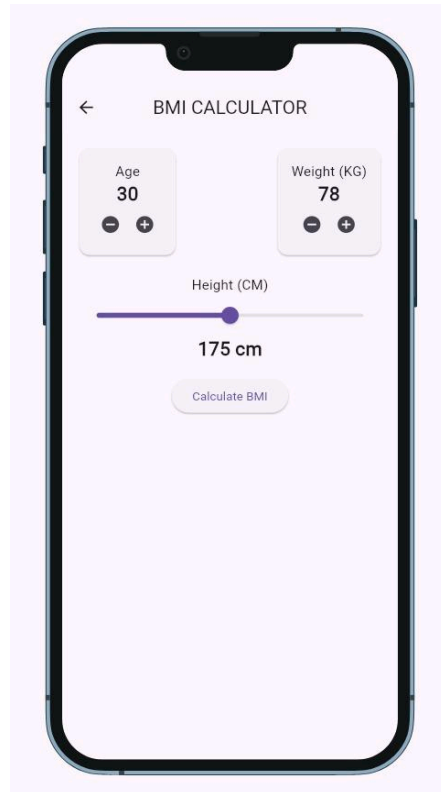
#### **1. Login Screen**

- The user is prompted to enter a username and password.
- Ensures access control to the app.



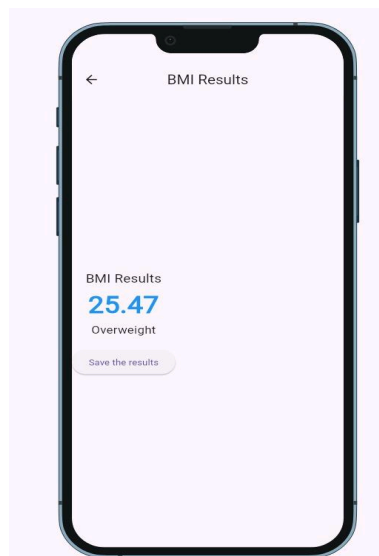
## 2. BMI Input Form

- Users can input their **Age**, **Weight (kg)**, and select **Height (cm)** using a slider.
- Buttons to increment/decrement values are provided for ease of use.



### 3. BMI Results

- The result is calculated and displayed with the BMI value and a message showing the weight category.
- Users also get the option to save the results.



**Conclusion:-** This experiment demonstrated the creation of an interactive BMI calculator using Flutter form widgets. It enhanced our understanding of user input handling and dynamic UI updates in mobile app development.