Experiment - 4

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AIM:

To create an interactive Form using Form widget.

Theory:

Forms are essential components in mobile applications for collecting user input such as login credentials, contact details, or feedback. In Flutter, the Form widget is used to group and manage multiple form fields efficiently.

1. Form Widget Overview

The Form widget, containing input fields like TextFormField, DropdownButtonFormField, etc. It provides a mechanism to validate and save the input data. Each form can be associated with a GlobalKey to manage its state.

2. Common Input Widgets

● TextFormField: Used for text input with built-in validation support.

● Checkbox, Radio, Switch: For selecting options.

● DropdownButtonFormField: For dropdown selections.

These fields are interactive and respond to user actions in real-time.
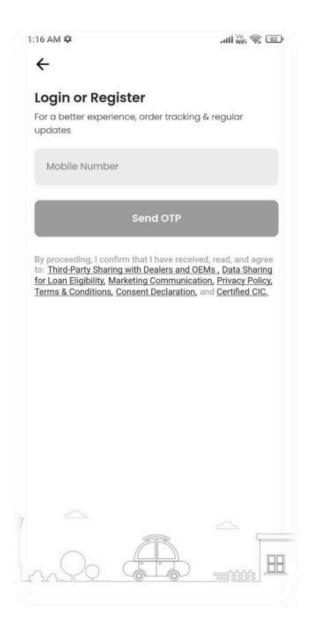
3. Validation and State Management

Form validation ensures the correctness of user input before submission. Flutter supports built-in and custom validation logic. The FormState object helps in validating, resetting, and saving form data. This enhances reliability and user experience.

4. User Interaction

Flutter forms support dynamic updates and real-time feedback using validation messages and input listeners. Focus and keyboard control make forms more user-friendly and interactive.

Experiment - 4

Using a simple Login/Sign Up form inside of my application.

Conclusion:

Creating forms using Flutter's Form widget provides a structured and efficient way to collect and validate user input. Proper use of form fields and validation improves interactivity and ensures a seamless user experience.