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## Experiment No: 04

**Aim:** To create an interactive Form using form widget Reference

### Objective

The objective of this experiment is to create an interactive form using Flutter's Form widget, incorporating validation logic for user input and submission handling.

### Theory

### Key Components of a Flutter Form

#### 1. Form Widget

The Form widget in Flutter is a container for grouping and validating multiple form fields (TextFormField, DropdownButtonFormField, etc.). It simplifies managing the state and validation of form elements collectively.

- It requires a `GlobalKey<FormState>` to access and control the form's state (e.g., validate, save, reset).
- It enables batch validation of all its children form fields using `.validate()`.

#### 2. GlobalKey<FormState>

A `GlobalKey<FormState>` allows access to the internal state of the Form widget. It enables:

- Validation using `_formKey.currentState!.validate()`
- Submission logic using `_formKey.currentState!.save()`
- Resetting the form using `_formKey.currentState!.reset()`

#### 3. TextFormField

This is a text input field that integrates well with Form. It supports:

- Validation via the `validator` property.
- Saving input via the `onSaved` property.
- Controllers to manage and retrieve text input.

#### 4. Form Validation

Form validation ensures users input correct and expected data. Flutter supports:

- Synchronous validation using the validator property.
- Real-time validation triggered by typing (when using `autovalidateMode`).
- Custom rules such as checking:
  - Non-empty input
  - Valid email formats
  - Specific input lengths or patterns

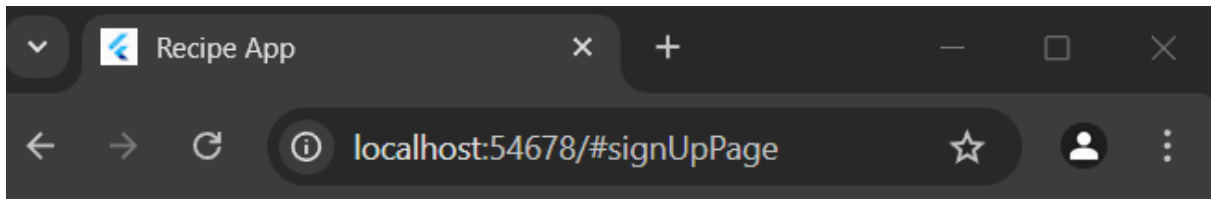
#### 5. Submit Button and Form Submission

- Submitting the form is typically handled by a button.
- On press, the app checks if the form is valid.
- If valid, data is saved or processed.

#### Implementation Steps

1. Create a Form with a `GlobalKey<FormState>`
2. Add a `TextFormField` with validation logic
3. Create a button to validate and submit the form

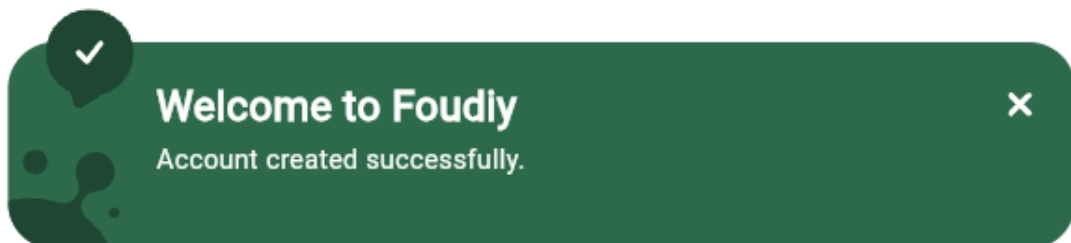
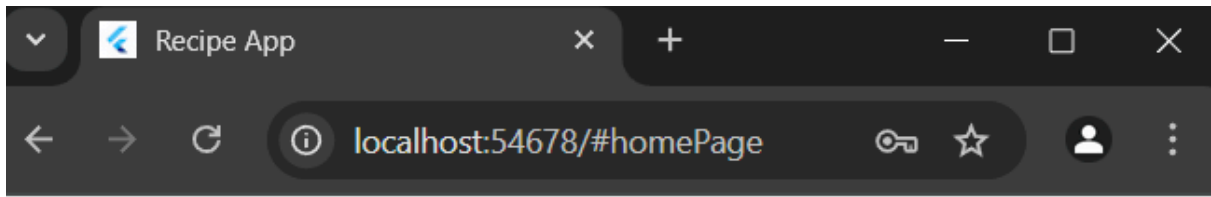
**Output:**



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