# MPL EXPERIMENT 4

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

**Theory:**
**1.Introduction**

Forms are an essential part of any mobile application, allowing users to input and submit data. In Flutter, forms are managed using the Form widget along with form fields like TextFormField, DropdownButtonFormField, Radio, and Checkbox. Forms help in gathering user information, validating inputs, and processing data securely.

Flutter provides a simple yet powerful way to create and manage forms, ensuring a smooth user experience. This project demonstrates the implementation of **Login and Signup Forms** in Flutter, focusing on best practices for UI, validation, and navigation.

**2.Steps**
- Setting up the Flutter project
- Creating the folder structure
- Implementing the login form
- Implementing the sign up form
- Managing form validation
- Navigating between screens
- Running the application

**Code:**
**Login_page.dart**
```
import 'package:flutter/material.dart';
import '../widgets/custom_text_field.dart';
import '../widgets/custom_button.dart';
import 'signup_page.dart';

class LoginPage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
    body: Padding(
      padding: EdgeInsets.all(20.0),
      child: Column(
```

```dart
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          Icon(Icons.facebook, size: 80, color: Colors.blue),
          SizedBox(height: 20),
          CustomTextField(label: "Email"),
          SizedBox(height: 10),
          CustomTextField(label: "Password", isPassword: true),
          SizedBox(height: 20),
          CustomButton(text: "Login", onPressed: () {}),
          TextButton(
            onPressed: () {},
            child: Text("Forgot Password?"),
          ),
          SizedBox(height: 20),
          CustomButton(
            text: "Create new account",
            onPressed: () {
              Navigator.push(
                context,
                MaterialPageRoute(builder: (context) => SignupPage()),
              );
            },
            isOutlined: true,
          ),
          SizedBox(height: 10),
          Text("Meta", style: TextStyle(color: Colors.grey)),
        ],
      ),
    ),
  );
  }
}
```

**Signup_page.dart**
```dart
import 'package:flutter/material.dart';
import '../widgets/custom_text_field.dart';
import '../widgets/custom_button.dart';
import '../widgets/gender_selection.dart';
import '../widgets/profile_avatar.dart';
```

```dart
class SignupPage extends StatefulWidget {
  @override
  _SignupPageState createState() => _SignupPageState();
}

class _SignupPageState extends State<SignupPage> {
  String gender = "Male";

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        leading: IconButton(
          icon: Icon(Icons.arrow_back),
          onPressed: () {
            Navigator.pop(context);
          },
        ),
      ),
      body: Padding(
        padding: EdgeInsets.all(20.0),
        child: Column(
          children: [
            ProfileAvatar(onTap: () {
              print("Profile Avatar Clicked!");
            }),
            SizedBox(height: 20),
            Row(
              children: [
                Expanded(child: CustomTextField(label: "First name")),
                SizedBox(width: 10),
                Expanded(child: CustomTextField(label: "Last name")),
              ],
            ),
            SizedBox(height: 10),
            CustomTextField(label: "Birthday"),
            SizedBox(height: 10),
            GenderSelection(onGenderSelected: (selectedGender) {
              setState(() {
                gender = selectedGender;
```

```
            });
        }),
        CustomTextField(label: "Email"),
        SizedBox(height: 10),
        CustomTextField(label: "Password", isPassword: true),
        SizedBox(height: 20),
        CustomButton(text: "Next", onPressed: () {}),
      ],
    ),
  ),
 );
}
}
```

**Output**

**Screen 1 (Login):**

Email

Password

Login

Forgot Password?

Create new account

Meta

**Screen 2 (Registration):**

First name

Last name

Birthday

◉ Male    ○ Female

Email

Password

Next