Experiment No 4

Name : Kunal Pal **Div/Roll no :** D15B/50

Lab : MAD & PWA Lab

Aim : To create an interactive Form using a form widget .

In FitTrack, you can implement an interactive form using Flutter's Form widget along with various input fields like TextFormField, Checkbox, Radio, and DropdownButton. These widgets allow users to input data related to their fitness activities, goals, and preferences.

When designing the form, consider including fields such as:

Name: for identifying the user
Age: to customize fitness recommendations and goals
Gender: for tailored workout plans
Weight and Height: for calculating BMI or suggesting appropriate exercises
Fitness Goals: options like weight loss, muscle gain, or general fitness improvement
Activity Level: to adjust calorie requirements and workout intensity
Preferred Workout Types: such as cardio, strength training, or yoga
Ensure that the form is intuitive and user-friendly by providing clear labels, error messages, and validation to guide users through the input process. You can use Flutter's FormFieldValidator to validate input data and provide feedback to users in real-time.

Consider enhancing the interactivity of the form by dynamically updating certain fields based on user selections. For example, if a user selects "weight loss" as their fitness goal, you can display additional options related to diet preferences or targeted workouts.

By implementing an interactive form within your FitTrack app, you can personalize the user experience and gather valuable data to tailor fitness recommendations and track progress effectively. Experiment with different form layouts and input fields to find the optimal balance between usability and functionality for your users.

Code :

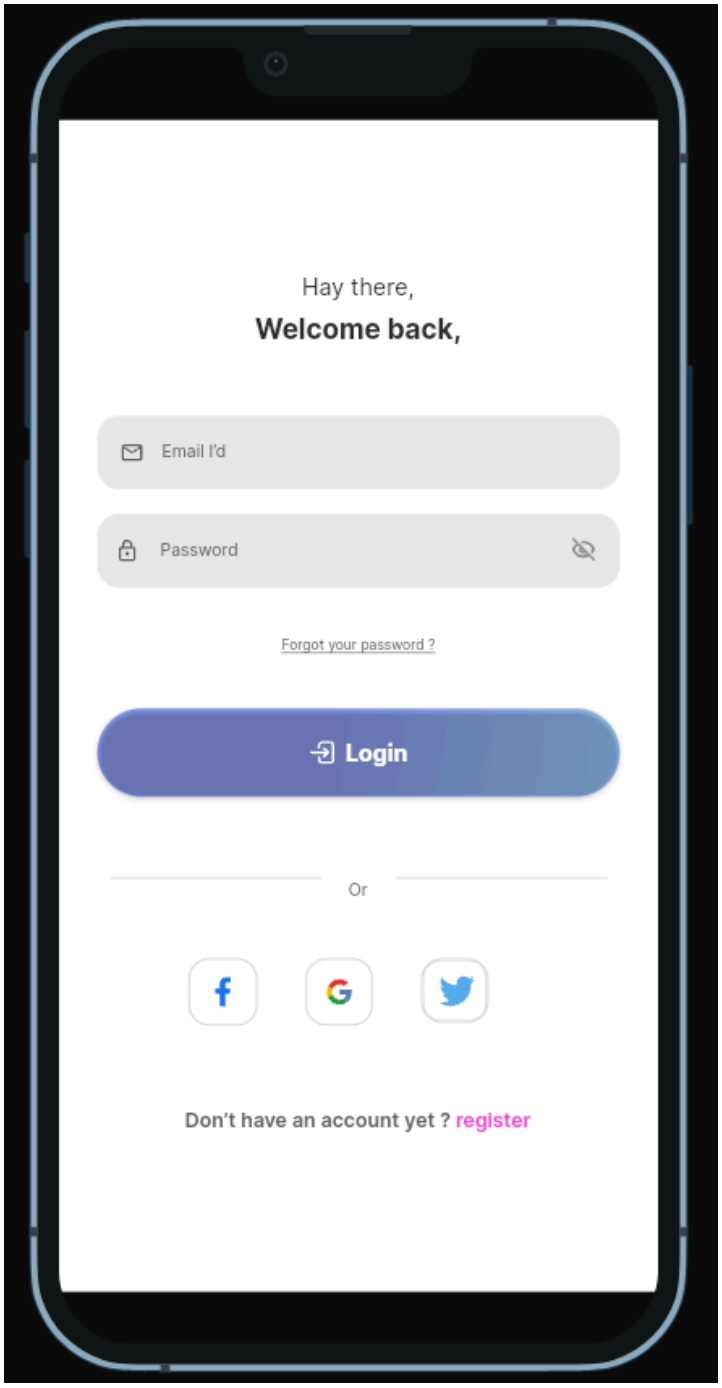
```
import 'package:flutter/material.dart';

class RegistrationPage extends StatelessWidget {
  final _formKey = GlobalKey<FormState>();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Registration'),
      ),
      body: Padding(
        padding: EdgeInsets.all(16.0),
        child: Form(
          key: _formKey,
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: <Widget>[
              TextFormField(
                decoration: InputDecoration(labelText:
'First Name'),
                validator: (value) {
                  if (value == null || value.isEmpty) {
                    return 'Please enter your first name';
```

```
                }
                return null;
              },
            ),
            TextFormField(
              decoration: InputDecoration(labelText: 'Last
Name'),
              validator: (value) {
                if (value == null || value.isEmpty) {
                  return 'Please enter your last name';
                }
                return null;
              },
            ),
            TextFormField(
              decoration: InputDecoration(labelText:
'Email'),
              validator: (value) {
                if (value == null || !value.contains('@'))
{
                  return 'Please enter a valid email
address';
                }
                return null;
              },
            ),
            TextFormField(
              decoration: InputDecoration(labelText:
'Password (6 digits)'),
              obscureText: true,
              validator: (value) {
                if (value == null || value.length < 6) {
                  return 'Password must be at least 6
characters long';
```

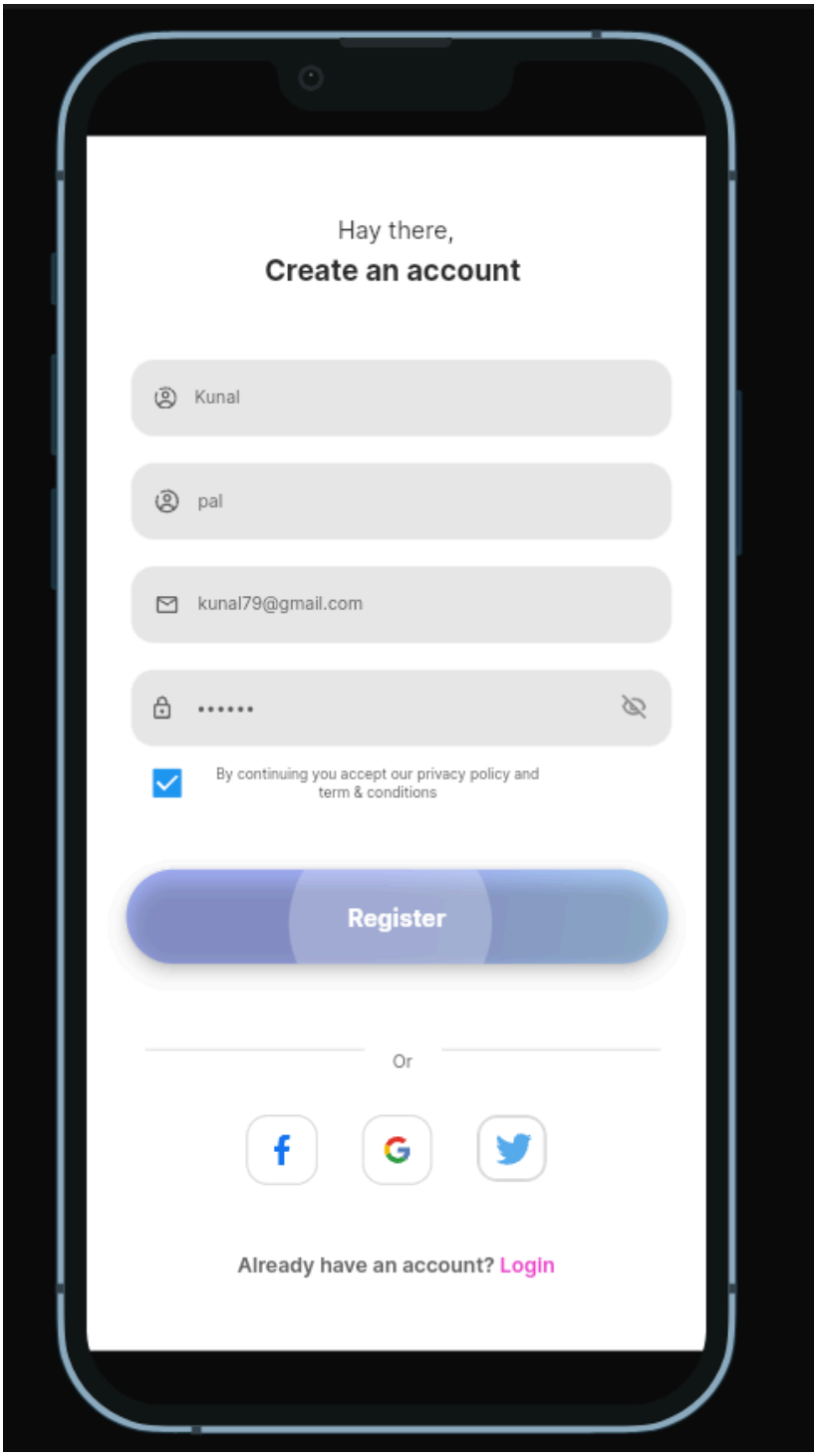
```
                    }
                    return null;
                  },
                ),
                SizedBox(height: 20),
                ElevatedButton(
                  onPressed: () {
                    if (_formKey.currentState!.validate()) {
                      // Implement registration logic here
                    }
                  },
                  child: Text('Register'),
                ),
              ],
            ),
          ),
        ),
      );
  }
}
```

Output :

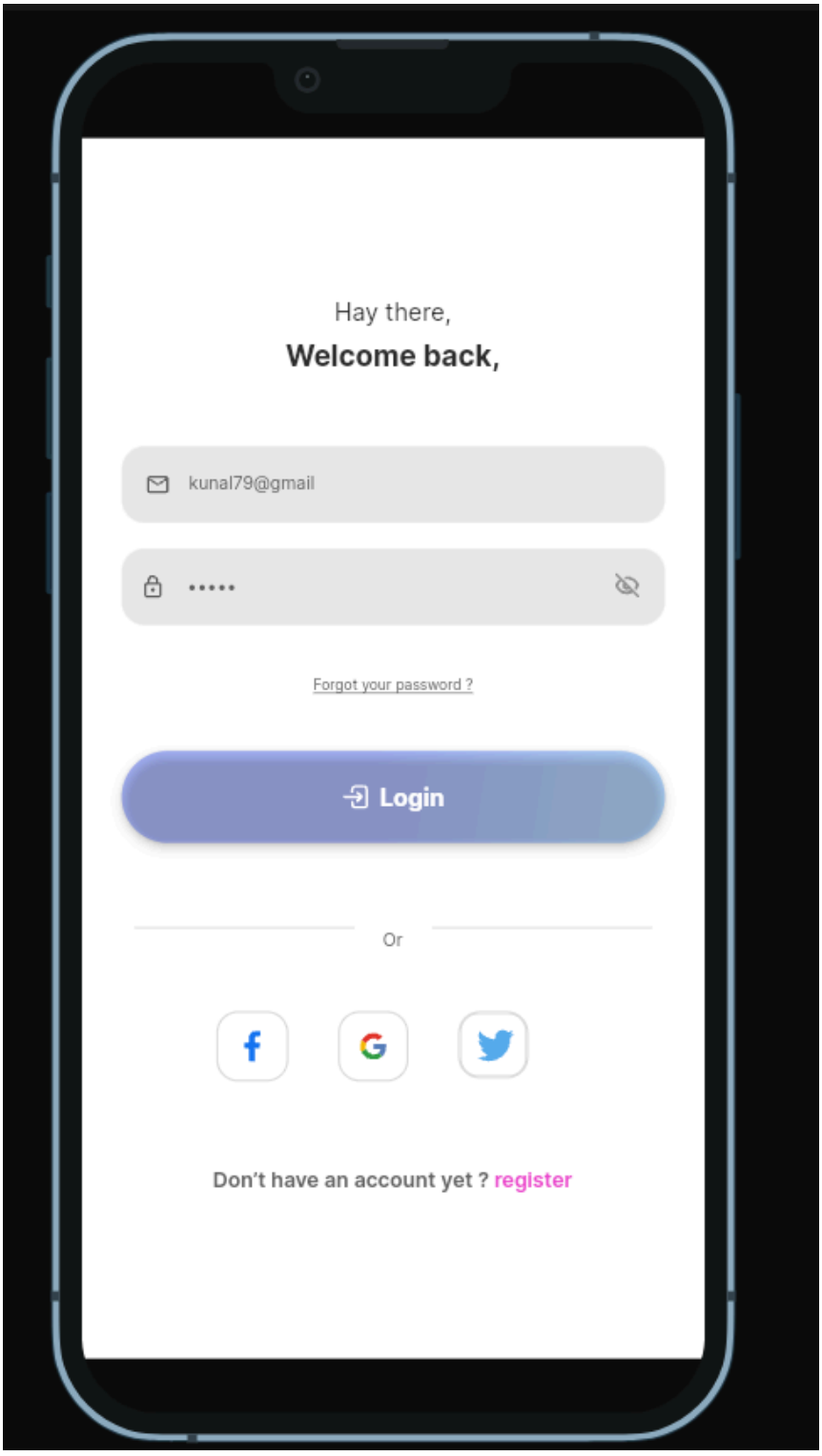
Login Page :


Hay there,
Welcome back,
Email I'd
Password
Forgot your password ?
Login
Or
Don't have an account yet ? register

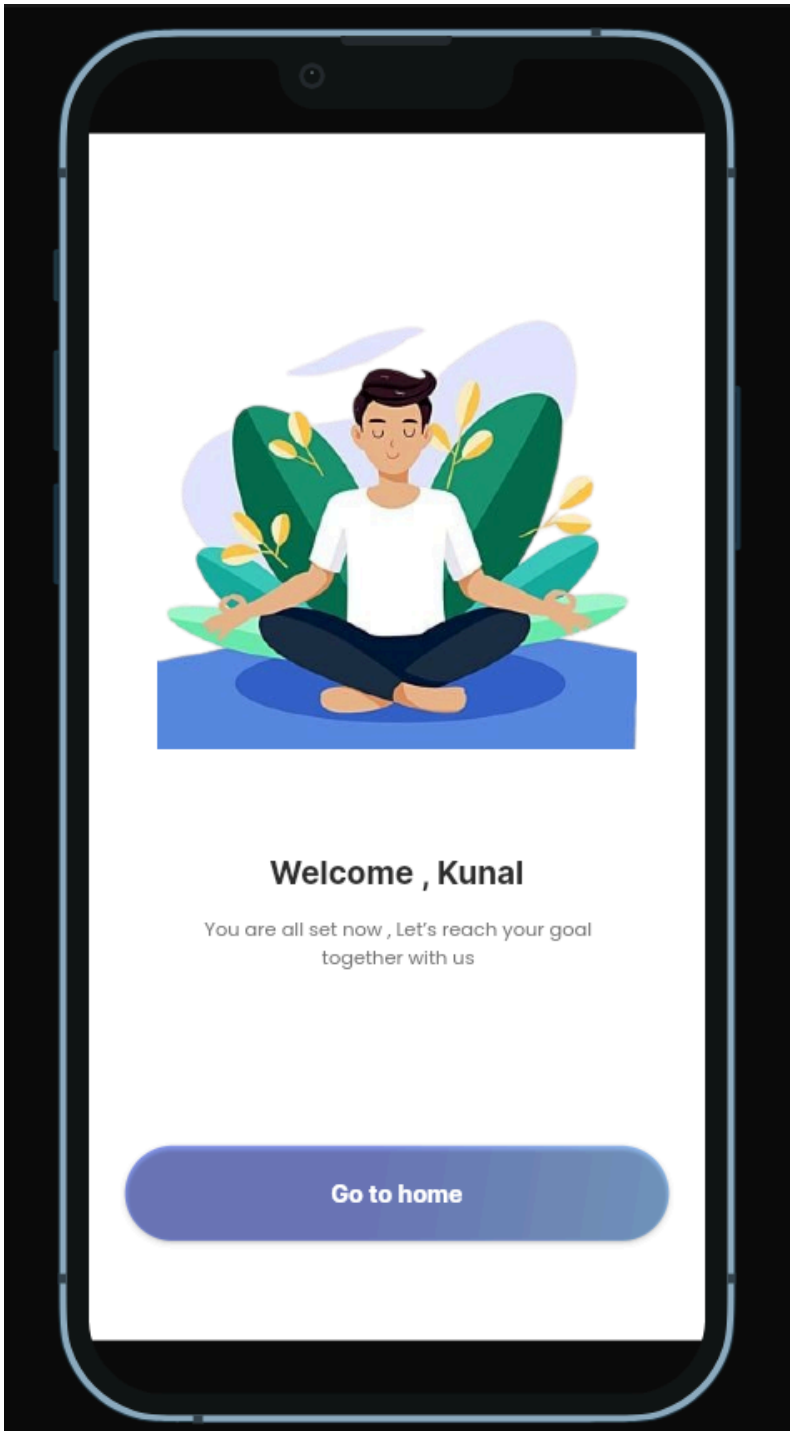
Registration Page :



Login Page :


Hay there,
Welcome back,
kunal79@gmail
.....
Forgot your password ?
Login
Or
Don't have an account yet ? register

Home Page :


Welcome , Kunal
You are all set now , Let's reach your goal together with us
Go to home

Conclusion : In Flutter, I've learned to build interactive forms using the Form widget. This allows for easy validation and handling of user input. By wrapping form fields with FormField widgets and utilizing validators, I can ensure data integrity and provide feedback to users. Additionally, the Form widget simplifies the process of capturing and processing user input, enhancing the overall functionality of your app.