

MPL

Experiment 4

Aim: To create an interactive Form using form widget.

Program:

```
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';
import '../providers/auth_provider.dart';
import '../widgets/custom_button.dart';

class RegisterScreen extends StatefulWidget {
  @override
  _RegisterScreenState createState() => _RegisterScreenState();
}

class _RegisterScreenState extends State<RegisterScreen> {
  final TextEditingController nameController = TextEditingController();
  final TextEditingController emailController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();
  final _formKey = GlobalKey<FormState>();
  bool isLoading = false;

  void registerUser(BuildContext context) async {
    if (!_formKey.currentState!.validate()) return;

    setState(() => isLoading = true);

    try {
      await Provider.of<AuthProvider>(context, listen: false).register(
        nameController.text.trim(),
        emailController.text.trim(),
        passwordController.text.trim(),
      );
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text("Registration Successful! Please login.")),
      );
      Navigator.pushReplacementNamed(context, '/login');
    } catch (e) {
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text("Error: ${e.toString()}")),
      );
    }

    setState(() => isLoading = false);
  }
}
```

```
}
```

```
@override
```

```
Widget build(BuildContext context) {  
  return Scaffold(  
    backgroundColor: Colors.white,  
    appBar: AppBar(  
      title: Text('Register', style: TextStyle(fontWeight: FontWeight.bold)),  
      centerTitle: true,  
      elevation: 0,  
    ),  
    body: Padding(  
      padding: EdgeInsets.all(20),  
      child: Form(  
        key: _formKey,  
        child: Column(  
          mainAxisAlignment: MainAxisAlignment.center,  
          children: [  
            Text(  
              "Create an Account",  
              style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold),  
            ),  
            SizedBox(height: 20),  
  
            // Name Field  
            TextFormField(  
              controller: nameController,  
              decoration: InputDecoration(  
                labelText: "Full Name",  
                prefixIcon: Icon(Icons.person),  
                border: OutlineInputBorder(),  
              ),  
              validator: (value) =>  
                value!.isEmpty ? "Enter your name" : null,  
            ),  
            SizedBox(height: 15),  
  
            // Email Field  
            TextFormField(  
              controller: emailController,  
              decoration: InputDecoration(  
                labelText: "Email",  
                prefixIcon: Icon(Icons.email),  
                border: OutlineInputBorder(),  
            ),  
          ],  
        ),  
      ),  
    ),  
  ),  
);  
}
```

```

    ),
    validator: (value) {
      if (value!.isEmpty) return "Enter your email";
      if (!RegExp(r"^[a-zA-Z0-9.]+@[a-zA-Z0-9]+\.[a-zA-Z]+")
        .hasMatch(value)) {
        return "Enter a valid email";
      }
      return null;
    },
  ),
  SizedBox(height: 15),

  // Password Field
  TextFormField(
    controller: passwordController,
    obscureText: true,
    decoration: InputDecoration(
      labelText: "Password",
      prefixIcon: Icon(Icons.lock),
      border: OutlineInputBorder(),
    ),
    validator: (value) =>
      value!.length < 6 ? "Password must be 6+ chars" : null,
  ),
  SizedBox(height: 20),

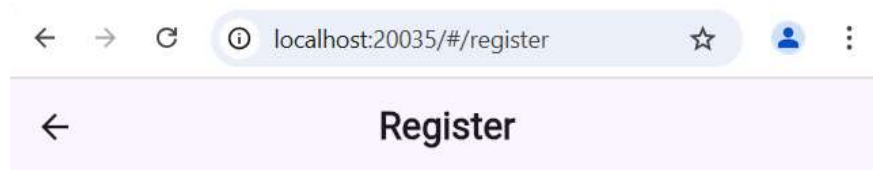
  // Register Button
  isLoading
    ? CircularProgressIndicator()
    : CustomButton(
      text: "Register",
      onPressed: () => registerUser(context),
    ),
  SizedBox(height: 10),

  // Already have an account? Login
  TextButton(
    onPressed: () {
      Navigator.pushReplacementNamed(context, '/login');
    },
    child: Text("Already have an account? Login",
      style: TextStyle(color: Colors.blue)),
  ),
],


```


```
    },  
    ),  
    ),  
);  
}  
}
```


Output:



Create an Account

 Full Name

 Email

 Password

Register

[Already have an account? Login](#)