



Faculty of Technology and Engineering

Chandubhai S. Patel Institute of Technology

Department of Computer Science & Engineering

Date: / /

Laboratory Manual Performa

Academic Year	:	2024-25	Semester	:	5 TH
Course code	:	CSE309	Course name	:	Mobile Application and Development

Practical - 6

Create a login screen and check the static condition if username: admin and password: admin then redirect on home screen and display name.

Introduction of relevant concepts used:

Code (Screenshot)

Main.dart

```
main.dart × home_screen.dart
lib > main.dart > ...
1 import 'package:flutter/material.dart';
2 import 'home_screen.dart';
3
4 void main() {
5   runApp(const MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   const MyApp({Key? key}) : super(key: key);
10
11   @override
12   Widget build(BuildContext context) {
13     return MaterialApp(
14       title: 'Login App',
15       theme: ThemeData(
16         primarySwatch: Colors.blue,
17       ), // ThemeData
18       home: const LoginScreen(),
19     ); // MaterialApp
20   }
21 }
22
23 class LoginScreen extends StatefulWidget {
24   const LoginScreen({Key? key}) : super(key: key);
25
26   @override
27   _LoginScreenState createState() => _LoginScreenState();
28 }
29
```

```

29
30 class _LoginScreenState extends State<LoginScreen> {
31   final _usernameController = TextEditingController();
32   final _passwordController = TextEditingController();
33
34   void _login() {
35     final username = _usernameController.text;
36     final password = _passwordController.text;
37
38     if (username == 'admin' && password == 'admin') {
39       Navigator.push(
40         context,
41         MaterialPageRoute(
42           builder: (context) => HomeScreen(username: username),
43         ), // MaterialPageRoute
44       );
45     } else {
46       _showErrorDialog("Invalid credentials. Please try again.");
47     }
48   }
49
50   void _showErrorDialog(String message) {
51     showDialog(
52       context: context,
53       builder: (context) => AlertDialog(
54         title: const Text('Login Failed'),
55         content: Text(message),
56         actions: [
57           TextButton(
58             onPressed: () {
59               Navigator.pop(context);
60             },
61             child: const Text('OK'),
62           ), // TextButton
63         ],
64       ), // AlertDialog
65     );
66   }
67
68   @override
69   Widget build(BuildContext context) {
70     return Scaffold(
71       appBar: AppBar(
72         title: const Text('Login Screen'),
73       ), // AppBar

```

```

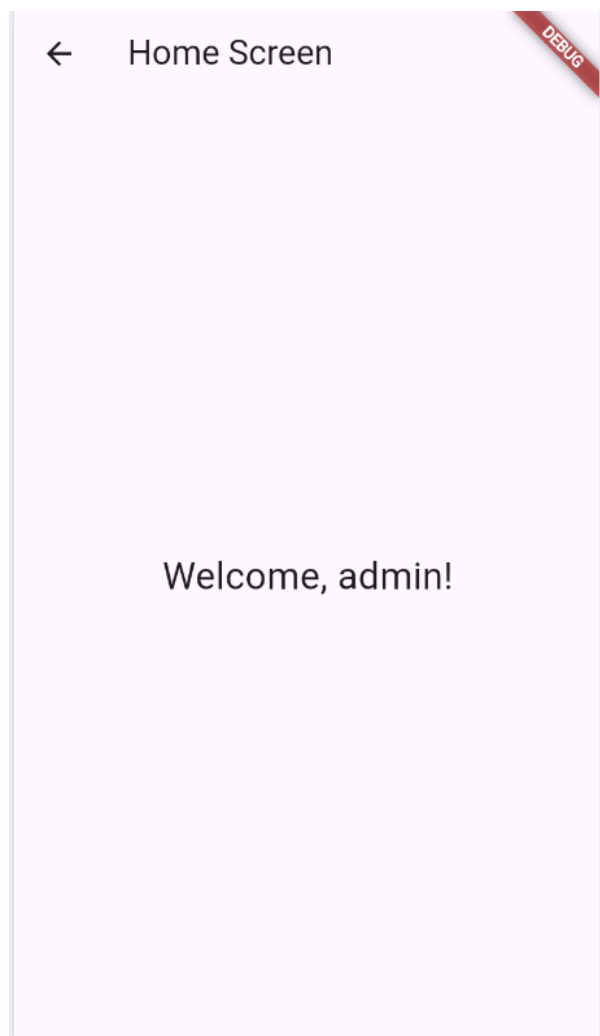
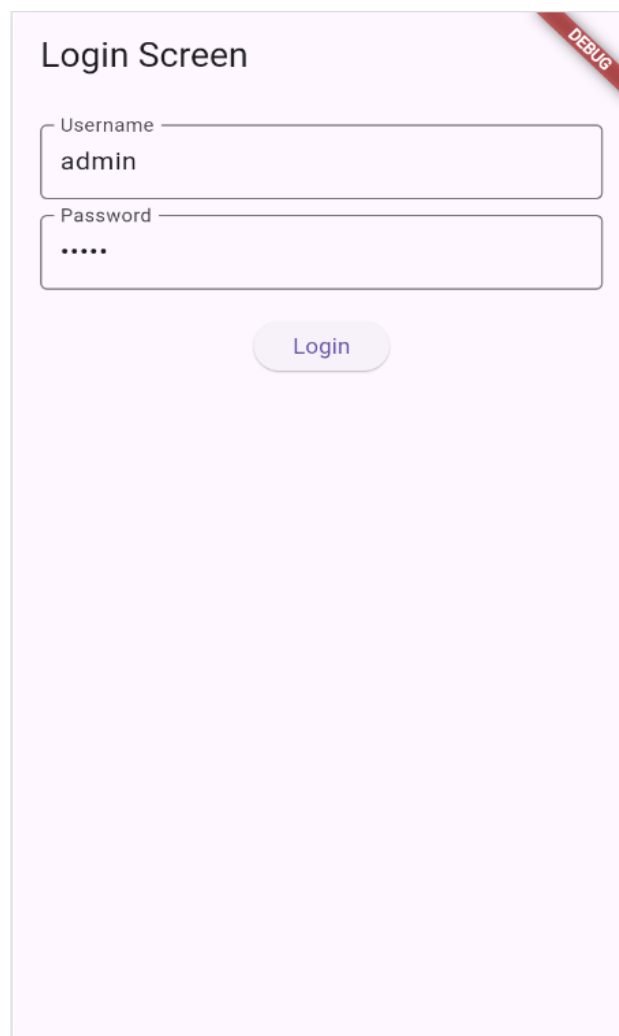
74     body: Padding(
75       padding: const EdgeInsets.all(16.0),
76       child: Column(
77         children: [
78           TextField(
79             controller: _usernameController,
80             decoration: const InputDecoration(
81               labelText: 'Username',
82               border: OutlineInputBorder(),
83             ), // InputDecoration
84           ), // TextField
85           const SizedBox(height: 10),
86           TextField(
87             controller: _passwordController,
88             decoration: const InputDecoration(
89               labelText: 'Password',
90               border: OutlineInputBorder(),
91             ), // InputDecoration
92             obscureText: true,
93           ), // TextField
94           const SizedBox(height: 20),
95           ElevatedButton(
96             onPressed: _login,
97             child: const Text('Login'),
98           ), // ElevatedButton
99         ],
100       ), // Column
101     ), // Padding
102   ); // Scaffold
103 }
104 }
105

```

Home_screen.dart

```
main.dart  home_screen.dart X
lib > home_screen.dart > HomeScreen > build
1  import 'package:flutter/material.dart';
2
3  class HomeScreen extends StatelessWidget {
4    final String username;
5
6    const HomeScreen({Key? key, required this.username}) : super(key: key);
7
8    @override
9    Widget build(BuildContext context) {
10     return Scaffold(
11       appBar: AppBar(
12         title: const Text('Home Screen'),
13       ), // AppBar
14       body: Center(
15         child: Text(
16           'Welcome, $username!',
17           style: const TextStyle(fontSize: 24),
18         ), // Text
19       ), // Center
20     ); // Scaffold
21   }
22 }
23
```

Output (Screenshot)



Grade/Marks
(____ / 10)

Sign of Lab Teacher with Date