



Faculty of Technology and Engineering

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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:

- Form and TextFormField: Widgets in Flutter used to create and validate user input forms, ensuring data is correctly entered before proceeding with actions like login.
- Navigator: A Flutter widget that manages a stack of routes (screens) and allows navigation between them, enabling transitions like moving from a login screen to a home screen upon successful authentication.

```
main.dart
import 'package:flutter/material.dart';
import 'screens/login.dart';
void main() {
runApp(MyApp());
}
class MyApp extends StatelessWidget {
 @override
Widget build(BuildContext context) {
  return MaterialApp(
   title: 'Login Example',
   theme: ThemeData(
    primarySwatch: Colors.blue,
   home: LoginScreen(),
 );
login screen.dart
import 'package:flutter/material.dart';
import 'home_screen.dart';
```

```
class LoginScreen extends StatefulWidget {
 @override
 LoginScreenState() => LoginScreenState();
class _LoginScreenState extends State<LoginScreen> {
final TextEditingController usernameController = TextEditingController();
final TextEditingController passwordController = TextEditingController();
final GlobalKey<FormState>_formKey = GlobalKey<FormState>();
void _login() {
  if ( formKey.currentState!.validate()) {
   if (usernameController.text == 'admin' && passwordController.text == 'admin') {
    Navigator.push(
     context.
     MaterialPageRoute(
     builder: (context) => HomeScreen(username: usernameController.text),
    ),
   );
  } else {
    _showErrorDialog('Invalid credentials');
void showErrorDialog(String message) {
  showDialog(
   context: context,
   builder: (context) => AlertDialog(
   title: Text('Error'),
    content: Text(message),
    actions: [
     TextButton(
      onPressed: () {
       Navigator.of(context).pop();
      child: Text('OK'),
 );
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
   title: Text('Login Screen'),
   body: Padding(
    padding: const EdgeInsets.all(16.0),
    child: Form(
     key: _formKey,
```

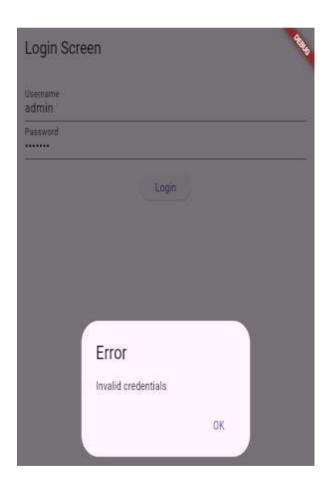
```
child: Column(
      children: [
      TextFormField(
        controller: usernameController,
        decoration: InputDecoration(labelText: 'Username'),
        validator: (value) {
         if (value == null || value.isEmpty) {
          return 'Please enter your username';
         return null;
        },
       ),
       TextFormField(
        controller: passwordController,
        decoration: InputDecoration(labelText: 'Password'),
        obscureText: true,
        validator: (value) {
         if (value == null || value.isEmpty) {
          return 'Please enter your password';
         }
         return null;
        },
       ),
       SizedBox(height: 20),
       ElevatedButton(
       onPressed: login,
       child: Text('Login'),
       ),
Home_screen.dart
import 'package:flutter/material.dart';
class HomeScreen extends StatelessWidget {
final String username;
HomeScreen({required this.username});
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
   title: Text('Home Screen'),
   body: Center(
    child: Text(
     'Welcome, $username!',
```

```
style: TextStyle(fontSize: 24),
),
),
);
}
}
```

Output (Screenshot)







Grade/Marks (____/ 10)

Sign of Lab Teacher with Date