

EX-4: Develop a Mobile Application for implementing login credentials with appropriate Toast Message

PROGRAM:

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

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: LoginPage(),
    );
  }
}

class LoginPage extends StatefulWidget {
  @override
  State<LoginPage> createState() => _LoginPageState();
}

class _LoginPageState extends State<LoginPage> {
  final TextEditingController usernameController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();

  void loginCheck() {
    String username = usernameController.text;
    String password = passwordController.text;
    if (username == "admin" && password == "1234") {
      // SUCCESS Snackbar
      ScaffoldMessenger.of(context).showSnackBar(

```

```
        SnackBar(  
            content: Text("Login Successful ✅),  
            backgroundColor: Colors.green,  
            duration: Duration(seconds: 2),  
        ),  
    );  
}  
} else {  
    // ERROR Snackbar  
    ScaffoldMessenger.of(context).showSnackBar(  
        SnackBar(  
            content: Text("Invalid Username or Password ❌),  
            backgroundColor: Colors.red,  
            duration: Duration(seconds: 2),  
        ),  
    );  
}  
}
```

```
@override  
Widget build(BuildContext context) {  
    return Scaffold(  
        appBar: AppBar(  
            title: Text("Login Page"),  
            backgroundColor: Colors.blue,  
        ),  
        body: Padding(  
            padding: const EdgeInsets.all(20.0),  
            child: Column(  
                mainAxisSize: MainAxisSize.center,  
                children: [  
                    TextField(  
                ],  
            ),  
        ),  
    );  
}
```

```
        controller: usernameController,  
        decoration: InputDecoration(  
            labelText: "Username",  
            border: OutlineInputBorder(),  
        ),  
    ),  
    SizedBox(height: 15),  
    TextField(  
        controller: passwordController,  
        obscureText: true,  
        decoration: InputDecoration(  
            labelText: "Password",  
            border: OutlineInputBorder(),  
        ),  
    ),  
    SizedBox(height: 25),  
    ElevatedButton(  
        onPressed: loginCheck,  
        child: Text("Login"),  
    ),  
],  
),  
);  
}  
}
```

OUTPUT:

The image shows a screenshot of a login interface. At the top, there is a solid blue horizontal bar containing the text "Login Page" in white. Below this, the main body of the page is a light gray color. In the center, there are two rectangular input fields, one above the other. The top field is labeled "Username" and the bottom field is labeled "Password", both in a light gray font. Below these fields is a blue rectangular button with the word "Login" written in white. The overall design is clean and minimalist.

Login Page

Username	<input type="text" value="admin"/>
Password	<input type="password" value="****"/>

Login

Login Page

Username —————

Password —————

Login

Login Successful ✓

Login Page

Username

Password

Login

Invalid Username or Password 