

## EXPERIMENT 2

**AIM :**To design Flutter UI by including common widgets.

**CODE:**

```
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'signup.dart';
import 'package:donation/Screens/dashboard.dart';

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

class _LoginPageState extends State<LoginPage> {
  final TextEditingController emailController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();
  final FirebaseAuth _auth = FirebaseAuth.instance;
  bool showForgotPasswordCard = false;
  final TextEditingController resetEmailController = TextEditingController();

  Future<void> signIn() async {
    try {
      UserCredential userCredential = await _auth.signInWithEmailAndPassword(
        email: emailController.text.trim(),
        password: passwordController.text.trim(),
      );
      Navigator.pushReplacement(
        context, MaterialPageRoute(builder: (context) => Dashboard(uid:
userCredential.user!.uid)));
    } catch (e) {
      print("Error: $e");
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text("Login failed! Check credentials.")),
      );
    }
  }

  Future<void> resetPassword() async {
    if (resetEmailController.text.trim().isEmpty) {
      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text("Please enter your email first.")),
      );
    }
  }
}
```

```
);
return;
}
try {
  await _auth.sendPasswordResetEmail(email: resetEmailController.text.trim());
  ScaffoldMessenger.of(context).showSnackBar(
    SnackBar(content: Text("Password reset link sent to email!")),
  );
  setState(() {
    showForgotPasswordCard = false;
  });
} catch (e) {
  print("Error: $e");
  ScaffoldMessenger.of(context).showSnackBar(
    SnackBar(content: Text("Error sending password reset email.")),
  );
}
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.white,
    appBar: AppBar(
      title: Text("Login", style: TextStyle(color: Colors.white)),
      backgroundColor: Colors.redAccent,
      elevation: 0,
    ),
    body: Stack(
      children: [
        Center(
          child: Padding(
            padding: EdgeInsets.all(20),
            child: Column(
              mainAxisAlignment: MainAxisAlignment.center,
              crossAxisAlignment: CrossAxisAlignment.stretch,
              children: [
                Text(
                  "Welcome Back Donor!",
                  textAlign: TextAlign.center,
                  style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold, color: Colors.redAccent),
                ),
                SizedBox(height: 20),
                TextField(
```

```
        controller: emailController,
        decoration: InputDecoration(
          labelText: "Email",
          prefixIcon: Icon(Icons.email, color: Colors.redAccent),
          border: OutlineInputBorder(borderRadius: BorderRadius.circular(10)),
        ),
      ),
      SizedBox(height: 10),
      TextField(
        controller: passwordController,
        decoration: InputDecoration(
          labelText: "Password",
          prefixIcon: Icon(Icons.lock, color: Colors.redAccent),
          border: OutlineInputBorder(borderRadius: BorderRadius.circular(10)),
        ),
        obscureText: true,
      ),
      SizedBox(height: 20),
      ElevatedButton(
        onPressed: signIn,
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.redAccent,
          shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),
          padding: EdgeInsets.symmetric(vertical: 15),
        ),
        child: Text("Login", style: TextStyle(fontSize: 18, color: Colors.white)),
      ),
      TextButton(
        onPressed: () {
          setState(() {
            showForgotPasswordCard = true;
          });
        },
        child: Text("Forgot Password?", style: TextStyle(color: Colors.redAccent, fontSize:
16)),
      ),
      TextButton(
        onPressed: () {
          Navigator.push(context, MaterialPageRoute(builder: (context) => SignupPage()));
        },
        child: Text("Don't have an account? Sign Up", style: TextStyle(color: Colors.black,
fontSize: 16)),
      ),
    ],
  ),
],
```

```
    ),
    ),
  ),
  if (showForgotPasswordCard)
    Positioned.fill(
      child: Container(
        color: Colors.black.withOpacity(0.5),
        child: Center(
          child: Card(
            elevation: 4,
            margin: EdgeInsets.all(10),
            shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(10)),
            child: Padding(
              padding: EdgeInsets.all(15),
              child: Column(
                mainAxisAlignment: MainAxisAlignment.min,
                children: [
                  Text("Reset Password", style: TextStyle(fontSize: 18, fontWeight:
FontWeight.bold, color: Colors.redAccent)),
                  SizedBox(height: 10),
                  TextField(
                    controller: resetEmailController,
                    decoration: InputDecoration(
                      labelText: "Enter your email",
                      prefixIcon: Icon(Icons.email, color: Colors.redAccent),
                      border: OutlineInputBorder(borderRadius: BorderRadius.circular(10)),
                    ),
                  ),
                  ),
                  SizedBox(height: 10),
                  ElevatedButton(
                    onPressed: resetPassword,
                    style: ElevatedButton.styleFrom(backgroundColor: Colors.redAccent),
                    child: Text("Send Reset Link", style: TextStyle(color: Colors.white)),
                  ),
                  ),
                  TextButton(
                    onPressed: () {
                      setState(() {
                        showForgotPasswordCard = false;
                      });
                    },
                    child: Text("Cancel", style: TextStyle(color: Colors.black)),
                  ),
                ],
              ),
            ),
          ),
        ),
      ),
    ),
  ),
),
```

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

**OUTPUT**A red rectangular button with the text "Login" in white.

**Welcome Back Donor!**

A white input field with a red envelope icon on the left and the text "Email" inside.A white input field with a red padlock icon on the left and the text "Password" inside.A red rectangular button with the text "Login" in white.

[Forgot Password?](#)

Don't have an account? [Sign Up](#)

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