

## MAD & PWA Lab Journal

Experiment No.	04
Experiment Title.	To design Flutter UI by including common widgets.
Roll No.	60
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Class	D15A
Subject	MAD & PWA Lab
Lab Outcome	LO2: Design and Develop interactive Flutter App by using widgets, layouts, gestures and animation
Grade:	

**Aim:**

To design Flutter UI by including common widgets.

**Program:**

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

class Login extends StatefulWidget {
  const Login({super.key});

  @override
  State<Login> createState() => _LoginState();
}

class _LoginState extends State<Login> {
  final TextEditingController emailController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: const Color(0xFFE1FFBB), // Light Teal Background
      body: Center(
        child: Padding(
          padding: const EdgeInsets.symmetric(horizontal: 32),
          child: Card(
            color: Color(0xFFC0F2E0),
            elevation: 5,
            shape: RoundedRectangleBorder(
              borderRadius: BorderRadius.circular(16),
            ),
            child: Padding(
              padding: const EdgeInsets.all(24),
              child: Column(
                mainAxisAlignment: MainAxisAlignment.min,
                children: [
                  const Text(
                    "Welcome Back!",
                    style: TextStyle(
                      fontSize: 22,
                      fontWeight: FontWeight.bold,
                      color: Color(0xFF001A6E),
                    ),
                  ),
                  const SizedBox(height: 10),
                  const Text(
                    "Login to your account",
                    style: TextStyle(
                      fontSize: 16,
                      color: Colors.black54,
                    ),
                  ),
                  const SizedBox(height: 20),
                ],
              ),
            ),
          ),
        ),
      ),
    );
  }
}
```

```

// Email Field
TextField(
  controller: emailController,
  decoration: InputDecoration(
    labelText: "Email",
    prefixIcon: const Icon(Icons.email),
    border: OutlineInputBorder(
      borderRadius: BorderRadius.circular(10),
    ),
  ),
),
const SizedBox(height: 16),

// Password Field
TextField(
  controller: passwordController,
  obscureText: true,
  decoration: InputDecoration(
    labelText: "Password",
    prefixIcon: const Icon(Icons.lock),
    border: OutlineInputBorder(
      borderRadius: BorderRadius.circular(10),
    ),
  ),
),
const SizedBox(height: 20),

// Login Button
ElevatedButton(
  onPressed: () {
    // TODO: Implement login logic
    print("Email: ${emailController.text}");
    print("Password: ${passwordController.text}");
  },
  style: ElevatedButton.styleFrom(
    backgroundColor: const Color(0xFF074799), // Deep Blue
    padding: const EdgeInsets.symmetric(
      horizontal: 40, vertical: 12),
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(8),
    ),
  ),
  child: const Text(
    "Login",
    style: TextStyle(
      fontSize: 16,
      color: Color(0xFFE1FFBB), // Light Greenish-Yellow
    ),
  ),
),
const SizedBox(height: 10),

// Forgot Password & Signup Text
TextButton(

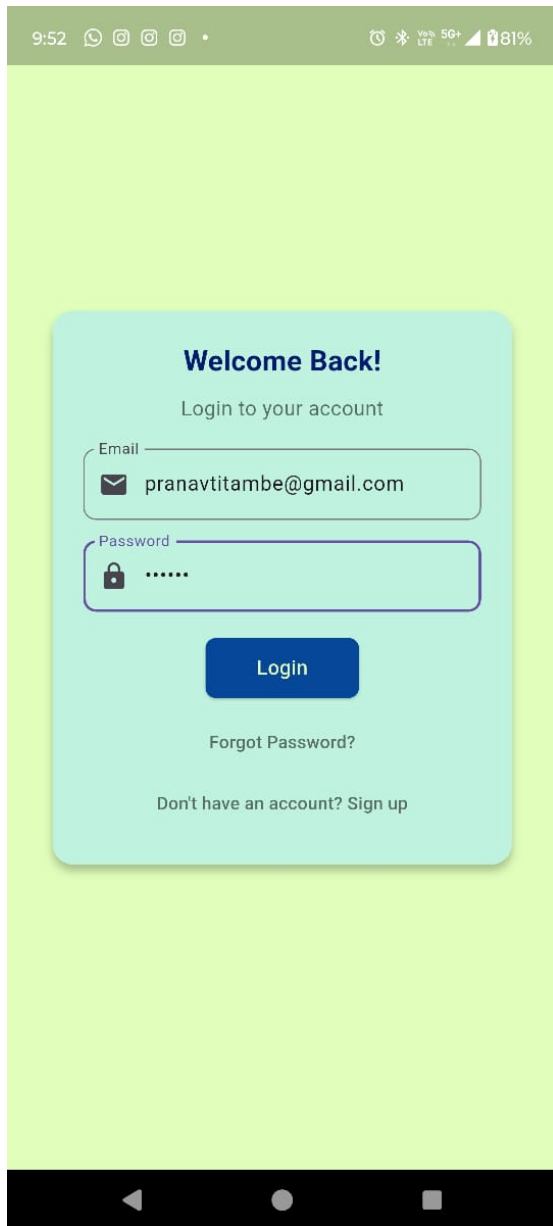
```

```

        onPressed: () {
          // TODO: Implement Forgot Password Logic
          print("Forgot Password");
        },
        child: const Text(
          "Forgot Password?",
          style: TextStyle(color: Colors.black54),
        ),
      ),
      TextButton(
        onPressed: () {
          // TODO: Implement Signup Navigation
        },
        child: const Text(
          "Don't have an account? Sign up",
          style: TextStyle(color: Colors.black54),
        ),
      ),
    ),
  ),
),
),
),
),
),
),
);
}
}

```

## Output:



## Common widgets used-

1. Scaffold
  - The main structure of the screen.
  - Provides the base layout like body.
2. Stack
  - Places widgets on top of each other (background image, button, and login form).

3. Container
  - Used for styling and layout purposes (background image, white login box).
4. BoxDecoration
  - Adds styling inside Container (background image, rounded corners).
5. DecorationImage
  - Used inside BoxDecoration to set an image as a background.
6. Align
  - Positions widgets at specific places (Skip button at the top-right, login box at the bottom).
7. Padding
  - Adds spacing around widgets.
8. TextButton
  - Used for the "Skip" button.
9. Column
  - Arranges widgets vertically inside the login box.
10. Text
  - Displays static text (NYKAA FASHION, Login or Signup, Stay stylish...).
11. SizedBox
  - Adds empty space between widgets.
12. TextField
  - Takes user input (mobile number).
13. InputDecoration
  - Adds a border and placeholder text (Enter mobile no.) inside TextField.
14. OutlineInputBorder
  - Provides a border for the TextField.
15. ElevatedButton
  - The "Get OTP" button.
16. TextStyle
  - Used to style text (color, font size, weight).
17. BorderRadius
  - Rounds corners of the white login box.

