

## 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(
      body: Stack(
        children: [
          // Background Image
          Align(
            alignment: Alignment.topCenter,
            child: Container(
              height: 580, // Adjust the height as needed
              decoration: BoxDecoration(
                image: DecorationImage(
                  image: AssetImage("assets/background.png"),
                  fit: BoxFit.scaleDown,
                ),
              ),
            ),
          // Skip Button
          Positioned(
            top: 40,
            right: 20,
            child: TextButton(
              onPressed: () {
                debugPrint("Skipped");
              },
              child: Row(
                mainAxisAlignment: MainAxisAlignment.min,
                children: const [
                  Text(
                    "Skip",
                    style: TextStyle(fontSize: 20, color: Color(0xFF001A6E)),
                  ),
                ],
              ),
            ),
          ),
        ],
      ),
    );
  }
}
```

```

        SizedBox(width: 5),
        Icon(Icons.arrow_forward, size: 30, color: Color(0xFF001A6E)),
      ],
    ),
  ),
),

```

// Login Card

```

Align(
  alignment: Alignment.bottomCenter,
  child: Container(
    width: double.infinity,
    padding: const EdgeInsets.all(24),
    decoration: const BoxDecoration(
      color: Color.fromARGB(255, 231, 255, 246), // Light Teal Card
      borderRadius: BorderRadius.only(
        topLeft: Radius.circular(30),
        topRight: Radius.circular(30),
      ),
    ),
  ),
  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,

```

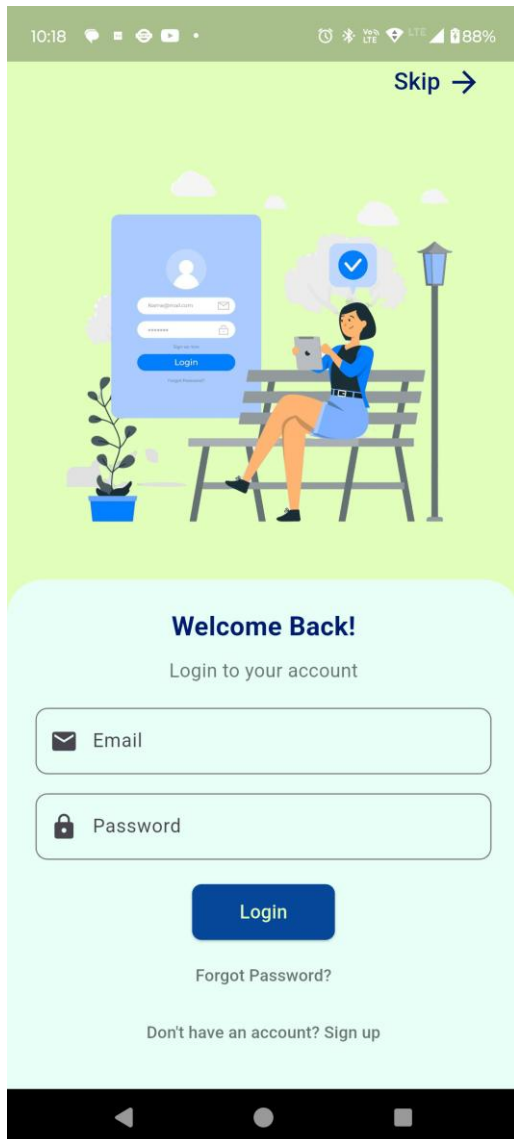
```
decoration: InputDecoration(
  labelText: "Password",
  prefixIcon: const Icon(Icons.lock),
  border: OutlineInputBorder(
    borderRadius: BorderRadius.circular(10),
  ),
),
),
const SizedBox(height: 20),

// Login Button
ElevatedButton(
  onPressed: () {
    // TODO: Implement login logic
  },
  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: 5),

// Forgot Password & Signup Text
TextButton(
  onPressed: () {
    // TODO: Implement Forgot Password Logic
  },
  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.

