

## Experiment 03

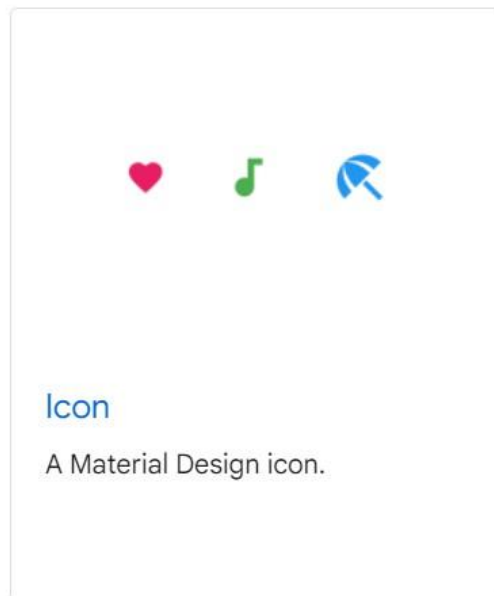
**Aim:** To include icons, images, fonts in Flutter app.

### Theory:

#### Icons:

Flutter provides support for Material icons and Cupertino icons out of the box. To use these icons, you can use the Icon widget and specify the icon you want to use by passing the appropriate icon data.

**Icon(Icons.favorite); // Material icon**



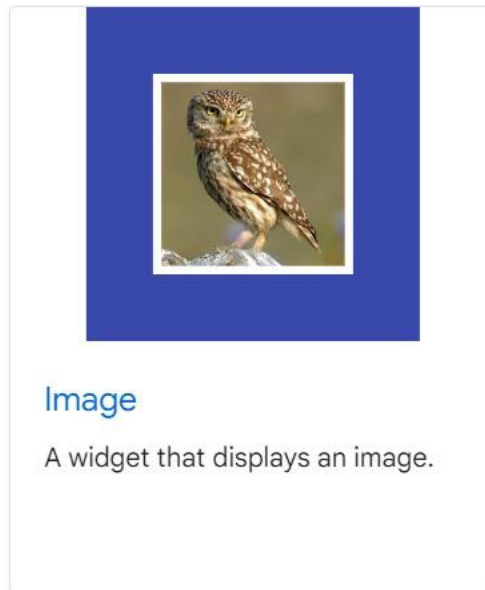
#### Images:

You can include images in your Flutter app by placing them in the assets folder in your project directory. Then, you need to declare these assets in the pubspec.yaml file.

flutter:

**assets:**

**- assets/my\_image.png**

**Fonts:**

To include custom fonts in your Flutter app, you first need to add the font files (e.g., .ttf, .otf) to your project directory. Then, declare the font files in the pubspec.yaml file.

```
flutter:  
  fonts:  
    - family: MyCustomFont      fonts:  
    - asset: assets/fonts/my_custom_font.ttf
```

After declaring the fonts, you can use them in your Flutter app by specifying the font family in text widgets.

**Text( 'Hello World', style:**

**TextStyle( fontFamily:**

**'MyCustomFont',**

**),**

**);**

**Code:**

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Login Page',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: LoginScreen(),
    );
  }
}

class LoginScreen extends StatelessWidget {
  final TextEditingController usernameController =
    TextEditingController();
  final TextEditingController passwordController =
    TextEditingController();

  void _handleLogin() {
    // Add authentication logic here
    String username = usernameController.text;
    String password = passwordController.text;

    // Example: Check if username and password are not empty
    if (username.isNotEmpty && password.isNotEmpty) {
      // Successful login - you can navigate to the next screen
      print('Login successful');
    } else {
      // Failed login - show an error message
      print('Login failed. Please enter both username and password.');
```

```
    title: Text('Login Page'),
  ),
  body: Padding(
    padding: EdgeInsets.all(16.0),
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        // Image
        Image.asset(
          'assets/login_image.png', // Replace with your image asset
          width: 150.0,
          height: 150.0,
        ),
        SizedBox(height: 20.0),
        // Username TextField with icon
        TextField(
          controller: usernameController,
          decoration: InputDecoration(
            labelText: 'Username',
            prefixIcon: Icon(Icons.person),
          ),
        ),
        SizedBox(height: 16.0),
        // Password TextField with icon
        TextField(
          controller: passwordController,
          obscureText: true,
          decoration: InputDecoration(
            labelText: 'Password',
            prefixIcon: Icon(Icons.lock),
          ),
        ),
        SizedBox(height: 32.0),
        // Login Button with icon
        ElevatedButton.icon(
          onPressed: _handleLogin,
          icon: Icon(Icons.login),
          label: Text('Login'),
        ),
        SizedBox(height: 16.0),
        // Custom Font Text
        Text(
          'Click on the icon to log in!',

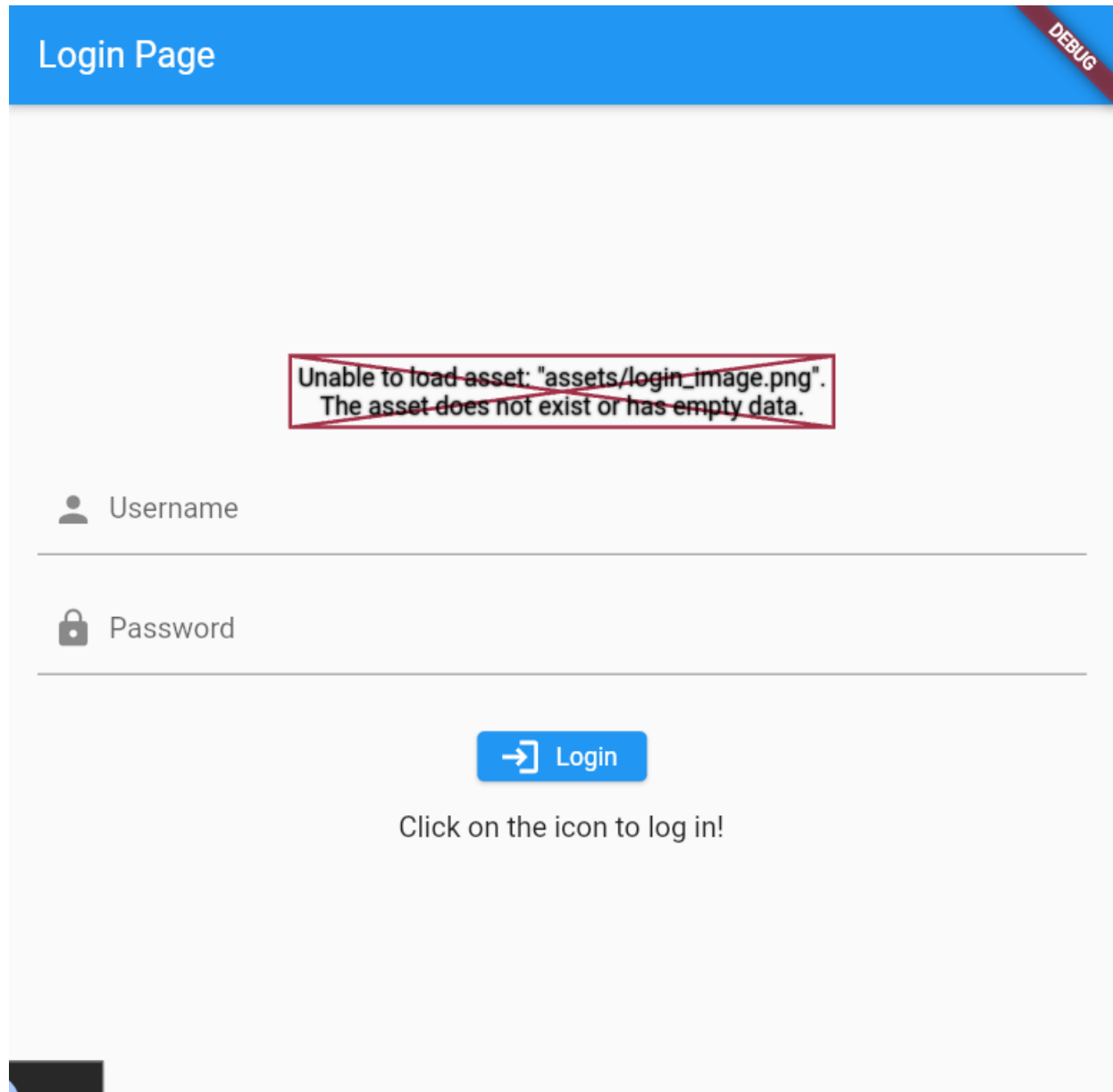
```

```
        style: TextStyle(  
          fontFamily: 'CustomFont',  
          fontSize: 16.0,  
        ),  
      ),  
    ],  
  ),  
),  
);  
}  
}
```

**Pubsec.yaml:**

```
flutter:  
  uses-material-design: true  
  fonts:  
    - family: CustomFont  
      fonts:  
        - asset: fonts/CustomFont.ttf # Adjust the path based on your  
project structure  
  assets:  
    - assets/login_image.png
```

**Output:****Conclusion:**



I learnt to implement custom font, icon and image in Flutter application.