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Experiment No: 03

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

Flutter allows developers to enhance their app's UI by incorporating icons, images, and custom fonts. These elements help in improving the app's aesthetics and user experience.

1. Including Icons:

Flutter provides built-in Material Icons and supports custom icon sets.

Using Material Icons:
Icon(Icons.home, size: 30, color: Colors.blue);

Using Custom Icons (from packages like FontAwesome): import 'package:font_awesome_flutter/font_awesome_flutter.dart';

Icon(FontAwesomeIcons.heart, size: 30, color: Colors.red);

2. Adding Images:

Images can be added from local assets or loaded from a network.

Adding Local Images:

Place images in the assets folder.

Define them in pubspec.yaml:
yaml flutter:

assets:

    - assets/images/logo.png

Use Image.asset in the app:
Image.asset('assets/images/logo.png', width: 100, height: 100);

Using Network Images:
Image.network('https://example.com/image.png', width: 100, height: 100);

3. Adding Custom Fonts:

Flutter allows integrating custom fonts for a unique design.

Steps to add a custom font:

Place font files in the assets/fonts folder.

Define them in pubspec.yaml:

yaml flutter:

fonts:

      - family: CustomFont

   fonts:

      - asset: assets/fonts/CustomFont-Regular.ttf

Use the custom font in your app:

```dart
Text(
  "Hello Flutter",   style: TextStyle(fontFamily:
"CustomFont", fontSize: 20),
);
```

Code:

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

import 'package:styleme/images/create.dart';

import 'WelcomePage.dart'; // Import WelcomePage

import 'Create.dart'; // Import CreatePage

import 'package:flutter/gestures.dart';


void main() {

  runApp(MyApp());

}


class MyApp extends StatelessWidget {

  @override

  Widget build(BuildContext context) {

    return MaterialApp(

      debugShowCheckedModeBanner: false,

      home: LoginPage(),

    );
```

```dart
  }
}


class LoginPage extends StatefulWidget {

  @override

  _LoginPageState createState() => _LoginPageState();

}


class _LoginPageState extends State<LoginPage> {

  final TextEditingController _usernameController = TextEditingController();

  final TextEditingController _passwordController = TextEditingController();


  void _login() {

    String username = _usernameController.text;

    String password = _passwordController.text;


    if (username == 'shrusti' && password == '123') {

      Navigator.push(

        context,

        MaterialPageRoute(builder: (context) => WelcomePage()),

      );

    } else {

      ScaffoldMessenger.of(context).showSnackBar(

        SnackBar(content: Text('Invalid Username or Password')),

      );

    }

  }
```

```dart
@override

Widget build(BuildContext context) {

  return Scaffold(

    body: Row(

      children: [

        // Left Side - Illustration with Background Image

        Expanded(

          child: Container(

            decoration: BoxDecoration(

              image: DecorationImage(

                image: AssetImage('lib/assets/Fashion.jpg'),

                fit: BoxFit.cover,

              ),

            ),

          ),

        ),


        // Right Side - Login Form

        Expanded(

          child: Padding(

            padding: const EdgeInsets.all(32.0),

            child: Column(

              mainAxisAlignment: MainAxisAlignment.center,

              crossAxisAlignment: CrossAxisAlignment.start,

              children: [

                Text(
```

```
    'StyleMe',
    style: TextStyle(
      fontSize: 30,
      fontWeight: FontWeight.bold,
    ),
  ),
),
SizedBox(height: 10),
Text(
  'Welcome to StyleMe',
  style: TextStyle(fontSize: 18, color: Colors.grey),
),
SizedBox(height: 30),
TextField(
  controller: _usernameController,
  decoration: InputDecoration(
    labelText: 'Username or Email',
    border: OutlineInputBorder(),
  ),
),
SizedBox(height: 15),
TextField(
  controller: _passwordController,
  obscureText: true,
  decoration: InputDecoration(
    labelText: 'Password',
    border: OutlineInputBorder(),
  ),
```

```dart
      ),
      SizedBox(height: 10),
      Align(
        alignment: Alignment.centerRight,
        child: Text(
          'Forgot password?',
          style: TextStyle(color: Colors.blue),
        ),
      ),
      SizedBox(height: 20),
      Center(
        child: ElevatedButton(
          onPressed: _login,
          style: ElevatedButton.styleFrom(
            padding: EdgeInsets.symmetric(horizontal: 50, vertical: 15),
            backgroundColor: Colors.black,
          ),
          child: Text(
            'Sign in',
            style: TextStyle(color: Colors.white),
          ),
        ),
      ),
      SizedBox(height: 20),
      Row(
        children: [
          Expanded(child: Divider()),
```

```dart
        Padding(

          padding: const EdgeInsets.symmetric(horizontal: 10),

          child: Text('or'),

        ),

        Expanded(child: Divider()),

      ],

    ),

    SizedBox(height: 20),

    Center(

      child: OutlinedButton.icon(

        onPressed: () {},

        icon: Image.asset(

          'lib/assets/google.jpg',

          height: 20,

        ),

        label: Text('Sign in with Google'),

      ),

    ),

    SizedBox(height: 20),

    Center(

      child: Text.rich(

        TextSpan(

          text: 'New to StyleMe ? ',

          children: [

            TextSpan(

              text: 'Create Account',

              style: TextStyle(color: Colors.blue),
```

```
                        recognizer: TapGestureRecognizer()
                          ..onTap = () {
                            Navigator.push(
                              context,
                              MaterialPageRoute(builder: (context) => Create()),
                            );
                          },
                      ),
                    ],
                  ),
                ),
              ),
            ],
          ),
        ),
      ),
    ),
    ],
  ),
  );
 }
}
```
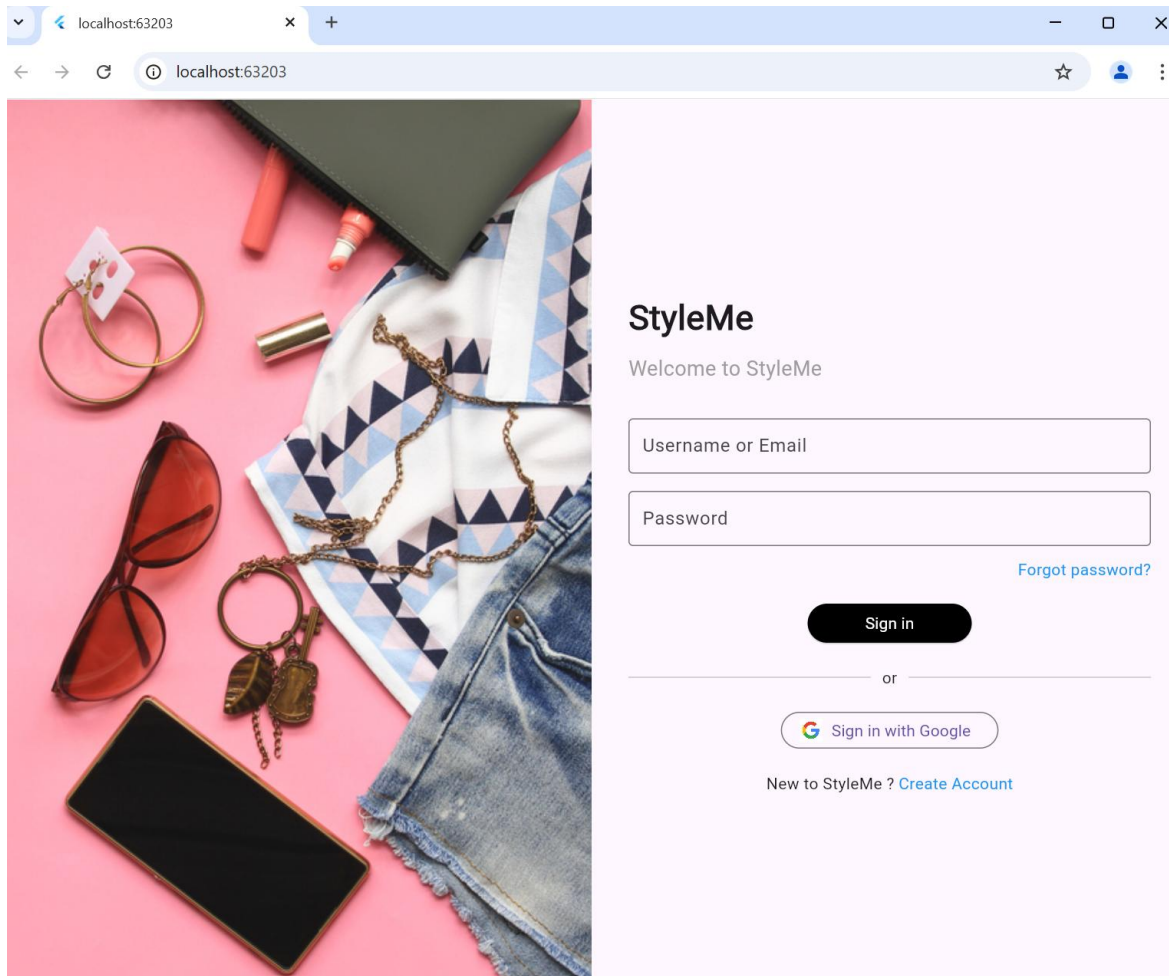
Output:

Conclusion:

By including icons, images, and fonts, we can enhance the visual appeal and usability of a Flutter app. Using built-in Material icons, external icon libraries, asset images, and custom fonts ensures a polished and professional UI. This experiment highlights the flexibility of Flutter in supporting various multimedia elements, making it a powerful tool for mobile app development.