

Universidad autónoma de Sinaloa

Facultad de Ingeniería Mochis



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Materia:

Cómputo en la nube

Actividad:

Mini Proyecto 01 [Flutter]

Código fuente de cada archivo .dart

Main.dart

```
import 'package:flutter/material.dart';
import 'package:mini_proyecto_01/src/splash_screen.dart';

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

class MyApp extends StatelessWidget {
  const MyApp({super.key});
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Mini Proyecto 01',
      home: SplashScreen(),
      debugShowCheckedModeBanner: false,
    );
  }
}
```

Home_page.dart

```
import 'package:flutter/material.dart';
import 'package:mini_proyecto_01/src/mostrar_imc.dart';

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

  @override
  _HomePageState createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
  final ctrlpeso = TextEditingController();
  final ctrolalt = TextEditingController();
  final data = Data(peso: 0, altura: 0, imc: 0);
  String peso = '';

  @override
  Widget build(BuildContext context) {
    return Scaffold(
```

```

appBar: AppBar(
  backgroundColor: Colors.lightGreen,
  title: Text('Calculadora de IMC'),
  centerTitle: true,
),
body: Center(
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      TextField(
        controller: ctrlpeso,
        keyboardType: TextInputType.number,
        decoration: InputDecoration(
          hintText: 'Ingrese su peso en Kilogramos:',
          contentPadding: EdgeInsets.all(20),
        ),
      ),
      TextField(
        controller: ctrolalt,
        keyboardType: TextInputType.number,
        decoration: InputDecoration(
          hintText: 'Ingrese su altura en metros:',
          contentPadding: EdgeInsets.all(20),
        ),
      ),
      SizedBox(height: 20),
      ElevatedButton(
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.blueAccent,
          foregroundColor: Colors.black,
        ),
        child: Text('Enviar'),
        onPressed: () {
          if (ctrlpeso.text.isNotEmpty && ctrolalt.text.isNotEmpty) {
            data.peso = double.parse(ctrlpeso.text);
            data.altura = double.parse(ctrolalt.text);
            setState(() {
              Navigator.of(context).push(
                MaterialPageRoute(
                  builder: (context) => DatosIMC(datos: data),
                ),
              );
            });
          } else {
            ScaffoldMessenger.of(context).showSnackBar(

```

```

        const SnackBar(
          content: Text('Por favor, ingrese peso y altura.'),
          duration: Duration(seconds: 2),
        ),
      ),
    ],
  ),
),
);
}
}

class Data {
  double peso;
  double altura;
  double imc;

  Data({required this.peso, required this.altura, required this.imc});
}

```

Mostrar_imc.dart

```

import 'package:flutter/material.dart';
import 'package:mini_proyecto_01/src/home_page.dart';

class DatosIMC extends StatelessWidget {
  final Data datos;
  const DatosIMC({super.key, required this.datos});

  @override
  Widget build(BuildContext context) {
    String cat = '';
    Color color = Colors.white;
    String ima = '';

    if ((datos.peso > 0) | (datos.altura > 0)) {
      datos.imc = datos.peso / (datos.altura * datos.altura);
      if (datos.imc < 18) {
        cat = 'Peso Bajo';
        ima = 'assets/1.png';
        color = Colors.blueAccent;
      }
    }
  }
}

```

```

    } else if ((datos.imc >= 18) & (datos.imc < 25)) {
      cat = 'Normal';
      ima = 'assets/2.png';
      color = Colors.lightGreenAccent;
    } else if ((datos.imc >= 25) & (datos.imc < 27)) {
      cat = 'Obesidad';
      ima = 'assets/3.png';
      color = Colors.orangeAccent;
    } else if ((datos.imc >= 27) & (datos.imc < 30)) {
      cat = 'Obesidad Grado 1';
      ima = 'assets/4.png';
      color = Colors.deepOrangeAccent;
    } else if ((datos.imc >= 30) & (datos.imc < 40)) {
      cat = 'Obesidad Grado 2';
      ima = 'assets/5.png';
      color = Colors.redAccent;
    } else {
      cat = 'Obesidad Grado 3';
      ima = 'assets/6.png';
      color = Colors.red;
    }
  }
}

return Scaffold(
  backgroundColor: color,
  appBar: AppBar(
    backgroundColor: Colors.deepPurple,
    title: Text('Datos de IMC'),
    centerTitle: true,
  ),
  body: Center(
    child: Column(
      children: [
        SizedBox(height: 20),
        Container(
          padding: EdgeInsets.all(20),
          margin: const EdgeInsets.all(12),
          decoration: BoxDecoration(
            color: Colors.deepPurpleAccent,
            borderRadius: BorderRadius.circular(10),
          ),
        ),
        child: Column(
          children: [
            Row(
              mainAxisAlignment: MainAxisAlignment.spaceAround,

```

```

        children: [
          Text(
            'Su peso es: ${datos.peso}',
            style: TextStyle(
              fontWeight: FontWeight.bold,
              fontSize: 16,
            ),
          ),
          Text(
            style: TextStyle(
              fontWeight: FontWeight.bold,
              fontSize: 16,
            ),
            'Su altura es: ${datos.altura}',
          ),
        ],
      ),
      Text(
        style: TextStyle(fontWeight: FontWeight.bold, fontSize:
16),
        'Su IMC es: ${datos.imc.toStringAsFixed(2)}',
      ),
      Text(
        style: TextStyle(fontWeight: FontWeight.bold, fontSize:
16),
        'Usted entra en la categoria: $cat',
      ),
    ],
  ),
),
);
}
}

```

Splash_screen.dart

```

import 'package:flutter/material.dart';
import 'package:mini_proyecto_01/src/home_page.dart';

```

```

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

  @override
  _SplashScreenState createState() => _SplashScreenState();
}

class _SplashScreenState extends State<SplashScreen> {
  @override
  void initState() {
    Future.delayed(
      Duration(milliseconds: 3000),
      () => Navigator.pushReplacement(
        context,
        MaterialPageRoute(builder: (context) => HomePage()),
      ),
    );
    super.initState();
  }

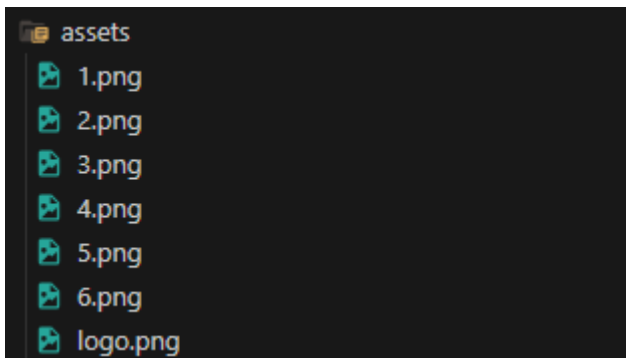
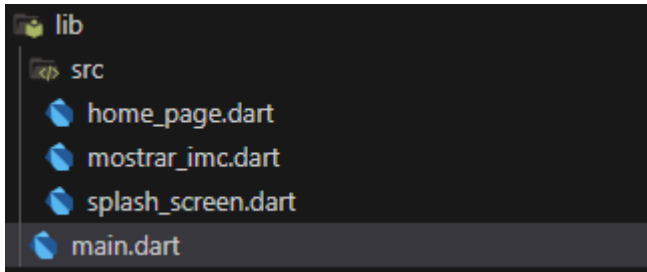
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white70,
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          crossAxisAlignment: CrossAxisAlignment.center,
          children: [
            Image.asset('assets/logo.png'),
            SizedBox(height: 50),
            CircularProgressIndicator(),
          ],
        ),
      ),
    );
  }
}

```

pubspec.yaml

```
flutter:  
  
  # The following line ensures that the Material Icons font is  
  # included with your application, so that you can use the icons in  
  # the material Icons class.  
  uses-material-design: true  
  
  # To add assets to your application, add an assets section, like this:  
  assets:  
    - assets/1.png  
    - assets/2.png  
    - assets/3.png  
    - assets/4.png  
    - assets/5.png  
    - assets/6.png
```


Captura de pantalla de la estructura de carpetas



imágenes que se utilizó en Assets



1.png



2.png



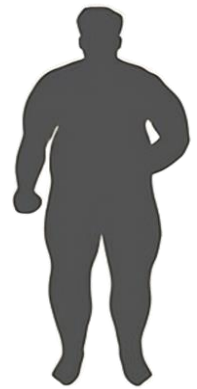
3.png



4.png



5.png

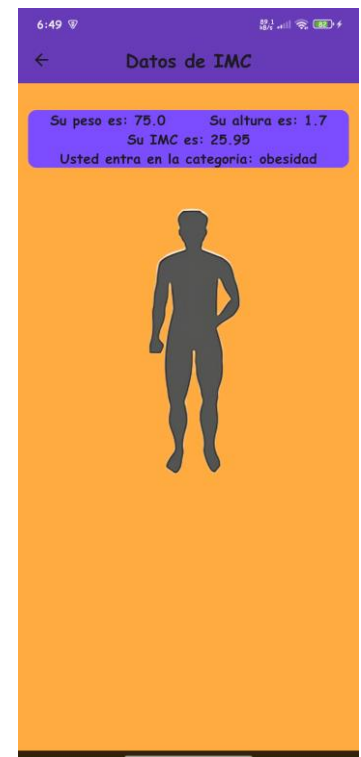
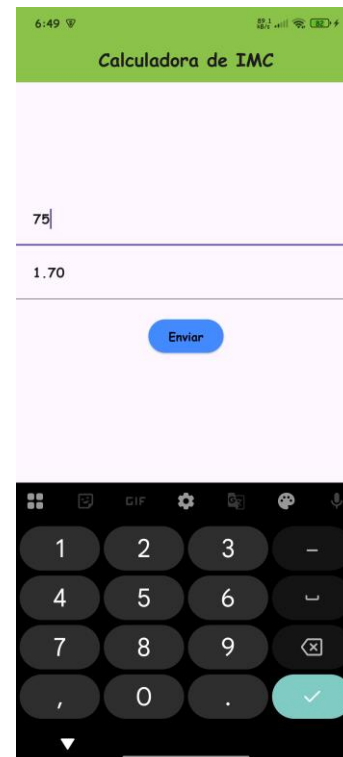
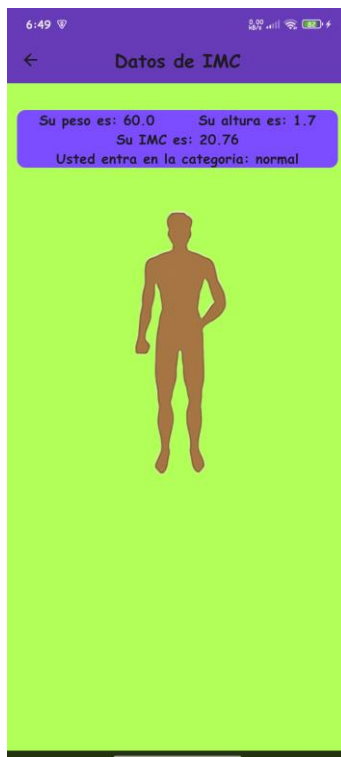
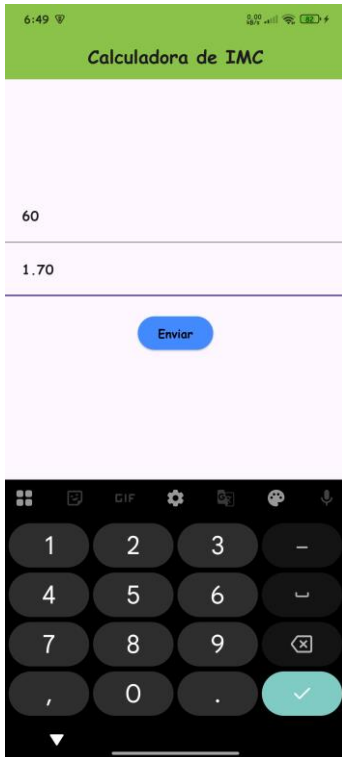
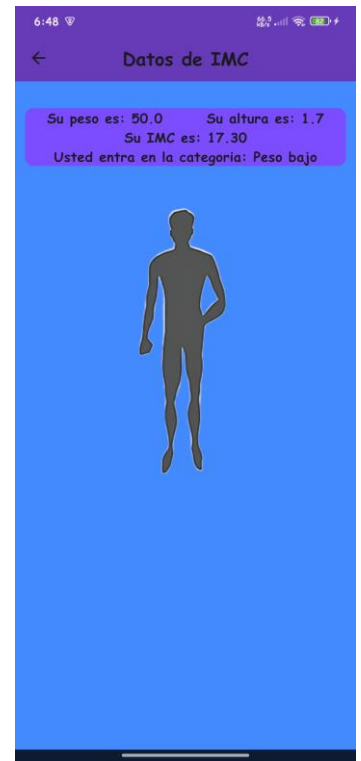
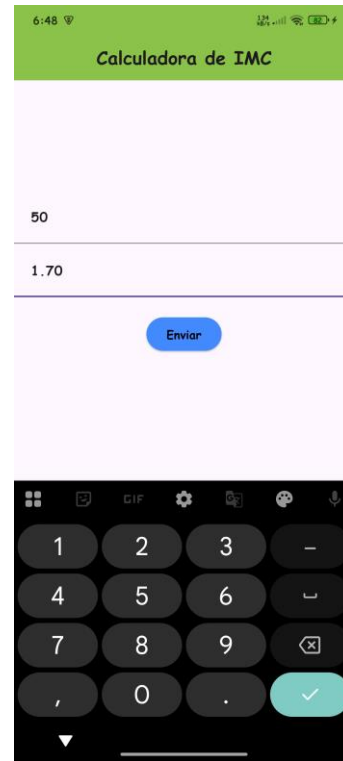
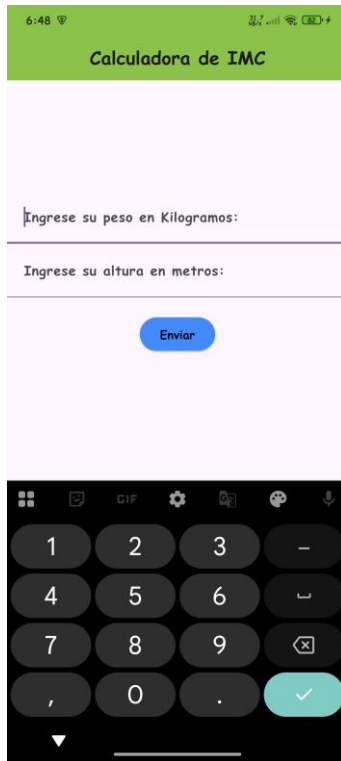


6.png



logo.png

Captura de pantalla de la aplicación en funcionamiento



6:49

Calculadora de IMC

80

1.70

Enviar

1234567890.+-

✓

6:49

Datos de IMC

Su peso es: 80.0 Su altura es: 1.7

Su IMC es: 27.68

Usted entra en la categoría: obesidad grado 1



6:49

Calculadora de IMC

90

1.70

Enviar

1234567890.+-

✓


6:49

Datos de IMC

Su peso es: 90.0 Su altura es: 1.7

Su IMC es: 31.14

Usted entra en la categoría: obesidad grado 2



6:50

Calculadora de IMC

120

1.70

Enviar

1234567890.+-

✓

6:50

Datos de IMC

Su peso es: 120.0 Su altura es: 1.7

Su IMC es: 41.52

Usted entra en la categoría: obesidad grado 3

