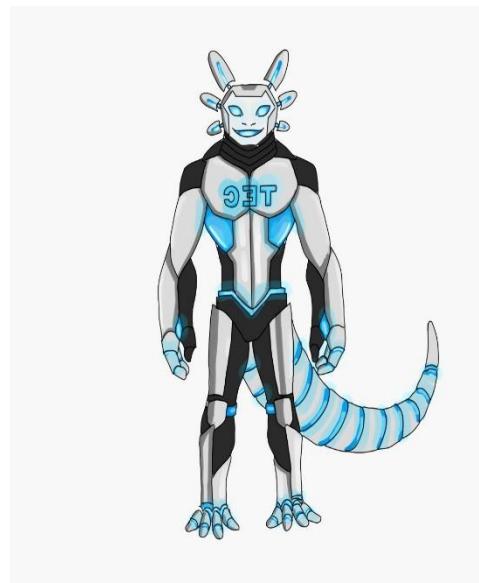


# **TECNOLOGICO JOSE MARIO MOLINA PASQUEL Y ENRIQUEZ UNIDAD ACADEMICA ZAPOTLANEJO**

## **MANUAL DE PROGRAMADOR**

**Desarrollo de aplicaciones para dispositivos  
móviles**

**SOFIA NUÑO DE ANDA**



SOFIA NUÑO DE ANDA

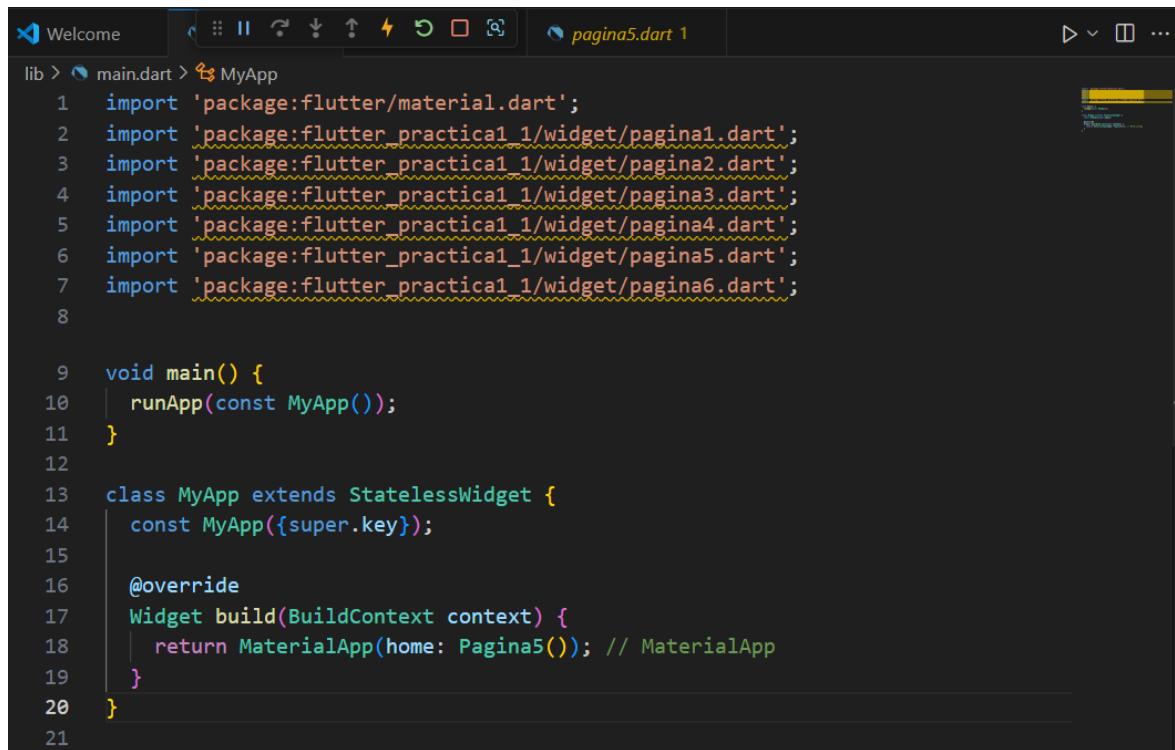
PROGRAMADOR

MANUAL DE

**Contenido**

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## PROGRAMA 1 P1

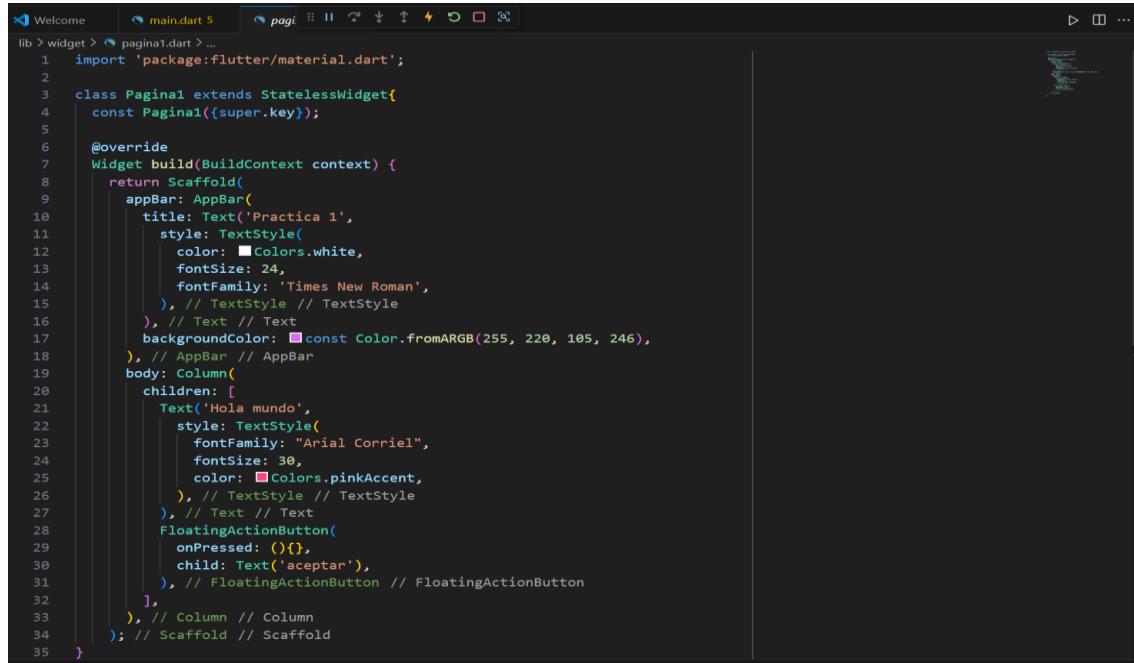


```

lib > main.dart > MyApp
  1 import 'package:flutter/material.dart';
  2 import 'package:flutter_practical_1/widget/pagina1.dart';
  3 import 'package:flutter_practical_1/widget/pagina2.dart';
  4 import 'package:flutter_practical_1/widget/pagina3.dart';
  5 import 'package:flutter_practical_1/widget/pagina4.dart';
  6 import 'package:flutter_practical_1/widget/pagina5.dart';
  7 import 'package:flutter_practical_1/widget/pagina6.dart';
  8
  9 void main() {
10   runApp(const MyApp());
11 }
12
13 class MyApp extends StatelessWidget {
14   const MyApp({super.key});
15
16   @override
17   Widget build(BuildContext context) {
18     return MaterialApp(home: Pagina5()); // MaterialApp
19   }
20 }
21

```

Lo indispensable es siempre tener el main agregado con sus páginas de la aplicación y llamando a la página que necesitamos.

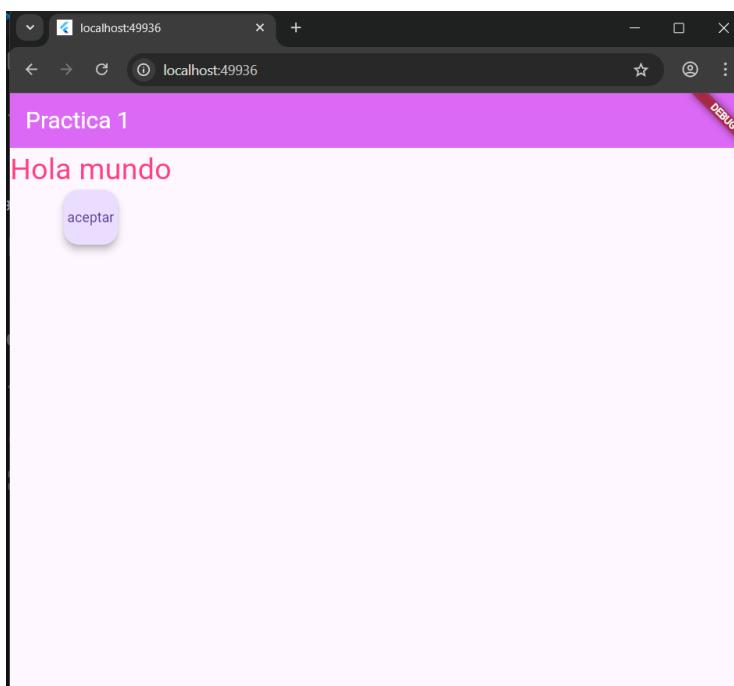


```

lib > widget > pagina1.dart > ...
  1 import 'package:flutter/material.dart';
  2
  3 class Pagina1 extends StatelessWidget{
  4   const Pagina1({super.key});
  5
  6   @override
  7   Widget build(BuildContext context) {
  8     return Scaffold(
  9       appBar: AppBar(
 10         title: Text('Practica 1',
 11           style: TextStyle(
 12             color: Colors.white,
 13             fontSize: 24,
 14             fontFamily: 'Times New Roman',
 15           ), // TextStyle // TextStyle
 16         ), // Text // Text
 17         backgroundColor: const Color.fromARGB(255, 220, 105, 246),
 18       ), // AppBar // AppBar
 19       body: Column(
 20         children: [
 21           Text('Hola mundo',
 22             style: TextStyle(
 23               fontFamily: "Arial Corriel",
 24               fontSize: 30,
 25               color: Colors.pinkAccent,
 26             ), // TextStyle // TextStyle
 27           ), // Text // Text
 28           FloatingActionButton(
 29             onPressed: (){},
 30             child: Text('aceptar'),
 31           ), // FloatingActionButton // FloatingActionButton
 32         ],
 33       ), // Column // Column
 34     ); // Scaffold // Scaffold
 35   }

```

Código de la página 1.



Diseño de la pagina 1.

```
lib> widget > pagina2.dart > Pagina2 > build
3   class Pagina2 extends StatelessWidget{
4     const Pagina2({super.key});
5
6     @override
7     Widget build(BuildContext context) {
8       return Scaffold(
9         appBar: AppBar(
10           title: Text('pagina 2'),
11           backgroundColor: const Color.fromARGB(255, 28, 80, 170),
12         ), // AppBar
13         body: Column(
14           children:[
15             Expanded(
16               child: Container(
17                 width: double.infinity,
18                 color: Colors.cyan,
19                 padding: EdgeInsets.all(25),
20                 child: Text('Hola Mundo',
21                   textAlign: TextAlign.center,
22                   style: TextStyle(
23                     fontSize: 30,
24                   ), // TextStyle
25                 ), // Text
26               ), // Container
27             Expanded(
28               child: Container(
29                 width: double.infinity,
30                 color: const Color.fromARGB(255, 120, 204, 217),
31                 padding: EdgeInsets.all(25),
32                 child: Text('Nombre de la aplicacion',
33                   textAlign: TextAlign.center,
34                   style: TextStyle(
35                     fontSize: 30,
36                     color: const Color.fromARGB(255, 10, 10, 10)
37               
```

```
37 |           color: □const Color.fromARGB(255, 10, 10, 10),
38 |     ), // TextStyle
39 |   ), // Text
40 |   ), // Container
41 |   ), // Expanded
42 |   Expanded(
43 |     child: Container(
44 |       width: double.infinity,
45 |       color: □const Color.fromARGB(255, 117, 174, 212),
46 |       padding: EdgeInsets.all(25),
47 |       child: Text('Notas',
48 |         textAlign: TextAlign.center,
49 |         style: TextStyle(
50 |           fontSize: 30,
51 |           color: □const Color.fromARGB(255, 24, 24, 24),
52 |         ), // TextStyle
53 |       ), // Text
54 |     ), // Container
55 |   ), // Expanded
56 |
57 |
58 |
59 | ],
60 | ); // Column
61 | ); // Scaffold
62 |
63 |
64 }
```

Código de la página 2.



Diseño de la pagina 2.

```
class pagina3 extends StatelessWidget{
  const pagina3({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('pagina 2'),
        backgroundColor: const Color.fromARGB(255, 28, 80, 170),
      ), // AppBar
      body: Column(
        children: [
          Expanded(
            flex:3,
            child: Container(
              width: double.infinity,
              color: Colors.cyan,
              padding: EdgeInsets.all(25),
              child: Text('Hola Mundo',
                textAlign: TextAlign.center,
                style: TextStyle(
                  fontSize: 30,
                ), // TextStyle
              ), // Text
            ), // Container
          ), // Expanded
          Expanded(
            flex:1,
            child: Container(
              width: double.infinity,
              color: const Color.fromARGB(255, 166, 173, 174),
              padding: EdgeInsets.all(25),
              child: Text('Nombre de la aplicacion',
                textAlign: TextAlign.center,
                style: TextStyle(

```

```
38           fontSize: 30,
39           color: Colors.pinkAccent,
40         ), // TextStyle
41       ), // Text
42     ), // Container
43   ), // Expanded
44   Expanded(
45     flex:3,
46     child: Container(
47       width: double.infinity,
48       color: const Color.fromARGB(255, 193, 206, 208),
49       padding: EdgeInsets.all(25),
50       child: Text('Notas',
51         textAlign: TextAlign.center,
52         style: TextStyle(
53           fontSize: 30,
54           color: const Color.fromARGB(255, 181, 90, 120),
55         ), // TextStyle
56       ), // Text
57     ), // Container
58   ), // Expanded
59
60
61
62   ],
63 ) // Column
64 ); // Scaffold
65
66
67 }
```

Código pagina 3.

pagina 2

DEBUG

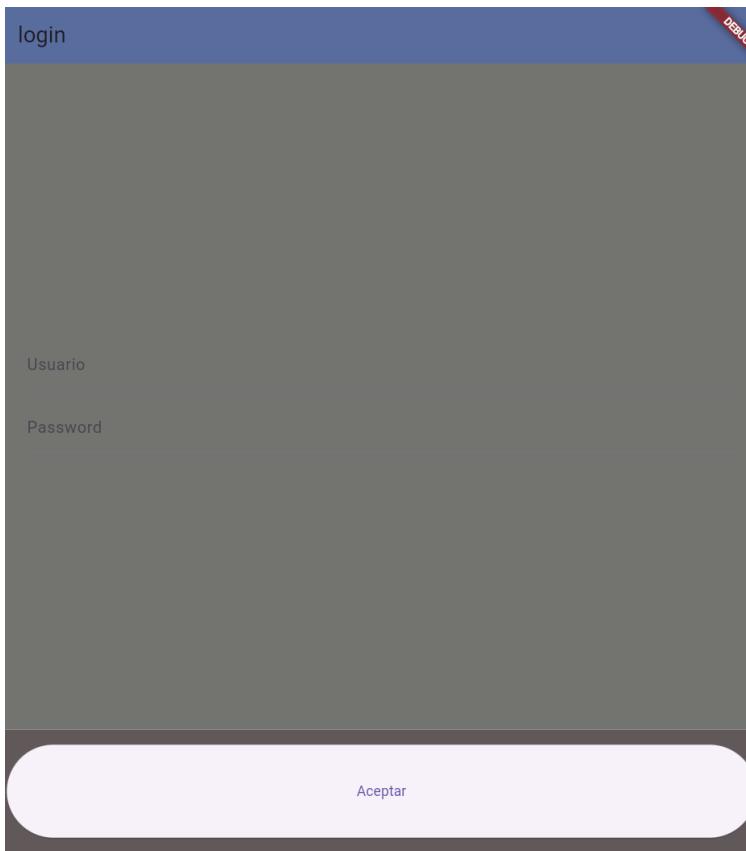
Hola Mundo

Nombre de la aplicacion

Notas

*Diseño de la página 3.*

```
1 import 'package:flutter/cupertino.dart';
2 import 'package:flutter/material.dart';
3 import 'package:flutter/widgets.dart';
4
5 class Pagina4 extends StatelessWidget{
6   const Pagina4({super.key});
7
8   void accion(){
9     print('Hola Mundo');
10 }
11 @override
12 Widget build(BuildContext context) {
13   return Scaffold(
14     appBar: AppBar(
15       title: Text('login'),
16       backgroundColor: Color.fromARGB(255, 89, 108, 158),
17     ), // AppBar
18     body:Column(
19       children: [
20         Expanded(
21           flex: 5,
22           child: Container(
23             width: double.infinity,
24             color: const Color.fromARGB(255, 115, 116, 112),
25             child: Container(
26               padding: EdgeInsets.all(25),
27               child: Column(
28                 mainAxisAlignment: MainAxisAlignment.center,
29                 children: [
30                   TextField(
31                     keyboardType: TextInputType.text,
32                     decoration: InputDecoration(
33                       labelText: 'Usuario',
34                     ), // InputDecoration
35
36                   ), // TextField
37                   SizedBox(height: 15,
38                 ), // SizedBox
39                   TextField(
40                     keyboardType: TextInputType.number,
41                     decoration: InputDecoration(
42                       labelText: 'Password',
43                     ), // InputDecoration
44                   ), // TextField
45                 ],
46               ), // Column
47             ), // Container
48           ), // Container
49         ), // Expanded
50         Expanded(
51           flex: 1,
52           child: Container(
53             color: const Color.fromARGB(255, 97, 89, 89),
54             padding: EdgeInsets.only(left: 5,right: 5,top: 15,bottom: 25),
55             width: double.infinity,
56             child: ElevatedButton(
57               onPressed: accion,
58               child: Text('Aceptar')
59             ), // ElevatedButton
60           ), // Container
61         ), // Expanded
62       ],
63     ), // Column
64   ); // Scaffold
65 }
66 }
67 }
```



Diseño de la pagina 4.

```
5 class Pagina5 extends StatefulWidget {
6   const Pagina5({super.key});
7
8   @override
9   State<StatefulWidget> createState() {
10     return Disenio();
11   }
12 }
13
14 class Disenio extends State<Pagina5> {
15   final TextEditingController Usuario = TextEditingController();
16   final TextEditingController Password = TextEditingController();
17
18   String res = 'Sin acción';
19
20   void accion() {
21     final String us = Usuario.text;
22     //final String pas = Password.text;
23     final int pas = int.tryParse(Password.text) ?? 0;
24
25     setState(() {
26       if (us == "admin" && pas == 123) {
27         res = "Usuario y password correcto";
28         Navigator.push(
29           context,
30           MaterialPageRoute(builder: (context) => Pagina6(nombre: us)),
31         );
32       } else {
33         //res = "Usuario y password incorrectos";
34         showDialog(
35           context: context,
36           builder: (context) {
37             return AlertDialog(
38               title: Text("Error de acceso"),
39               content: Text("Usuario y/o password incorrectos"),

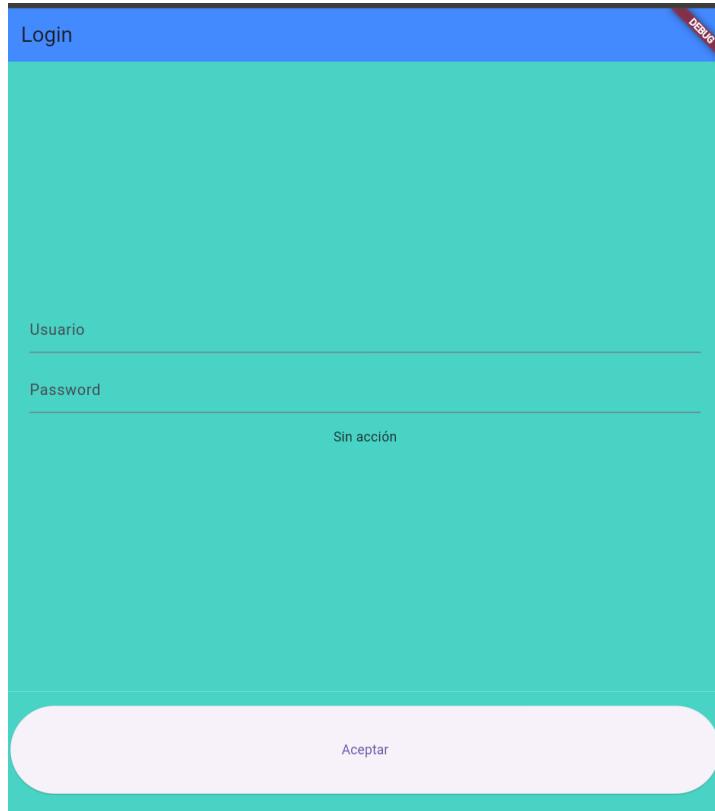
```

```
class Disenio extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('Login'), backgroundColor: Colors.blueAccent),
      body: Column(
        children: [
          Expanded(
            flex: 5,
            child: Container(
              width: double.infinity,
              color: const Color.fromARGB(255, 72, 211, 197),
              child: Container(
                padding: EdgeInsets.all(25),
                child: Column(
                  mainAxisAlignment: MainAxisAlignment.center,
                  children: [
                    TextField(
                      controller: Usuario,
                      keyboardType: TextInputType.text,
                      decoration: InputDecoration(labelText: 'Usuario'),
                    ), // TextField
                    SizedBox(height: 15),
                    TextField(
                      controller: Password,
                      keyboardType: TextInputType.number,
                      decoration: InputDecoration(labelText: 'Password'),
                    ), // TextField
                    SizedBox(height: 15),
                    Text('$res'),
                  ],
                ),
              ),
            ),
          ), // Column
        ], // Container
      ), // Container
    ). // Expanded
  }
}
```

Código pagina 5.

```
b > widget > pagina6.dart > Disenio > build
1 import 'package:flutter/material.dart';
2
3 class Pagina6 extends StatefulWidget{
4   final String nombre;
5   const Pagina6({
6     required this.nombre,
7   });
8   @override
9   State<StatefulWidget> createState() {
10    return Disenio();
11  }
12 }
13 class Disenio extends State<Pagina6>{
14
15   @override
16   Widget build(BuildContext context) {
17     return Scaffold(
18       appBar: AppBar(
19         title: Text('Login'),
20         backgroundColor: const Color.fromRGBO(255, 86, 103, 132),
21       ), // AppBar
22       body: Center(
23         child: Text('data'),
24       ), // Center
25     ); // Scaffold
26   }
27 }
28 }
```

Código pagina 6.



Este es el diseño de la pagina 5 se manda a llamar esa pagina y en la 5 ponemos la 6 para que pueda mandar datos a la pagina 6 cuando lo abra.

# PARCIAL II



## PROGRAMA 1 P2

```
lib > main.dart > main
1   import 'package:flutter/material.dart';
2   import 'package:flutter_application_p2/widget/Formulario.dart';
3
4   Run | Debug | Profile
5   void main() {
6     runApp(const MyApp());
7   }
8
9   class MyApp extends StatelessWidget {
10     const MyApp({super.key});
11
12     // This widget is the root of your application.
13     @override
14     Widget build(BuildContext context) {
15       return MaterialApp(home: Formulario());
16     }
17
```

Esta es la primera parte que es el main llamando a la página formulario.

```
lib > widget > Formulario.dart > Disenio > build
1   import 'package:flutter/material.dart';
2   import 'package:flutter_application_p2/main.dart';
3
4   class Formulario extends StatefulWidget {
5     const Formulario({super.key});
6     @override
7     State<StatefulWidget> createState() {
8       return Disenio();
9     }
10   }
11
12   class Disenio extends State<Formulario> {
13     final TextEditingController nom1 = TextEditingController();
14     final TextEditingController nom2 = TextEditingController();
15     final GlobalKey<FormState> _formkey = GlobalKey<FormState>();
16     String? aplicarValidacion(String? valor) {
17       if (valor == null || valor.isEmpty) {
18         return 'Ingresa un dato';
19       }
20       final exp = RegExp(r'^[a-zA-Z]*$');
21       if (!exp.hasMatch(valor)) {
22         return 'Ingresa los datos';
23       }
24       return null;
25     }
26
27     void validarDatos() {
28       if (_formkey.currentState?.validate() == false) {
29         ScaffoldMessenger.of(
30           context,
31         ).showSnackBar(SnackBar(content: Text('ERROR')));
32       } else {
33         ScaffoldMessenger.of(
34           context,
35         ).showSnackBar(SnackBar(content: Text('Dato Correcto')));
36       }
37     }
38   }
39 }
```

```
39  @override
40  Widget build(BuildContext context) {
41    return Scaffold(
42      appBar: AppBar(title: Text('Formulario'), backgroundColor: Colors.green),
43      body: Padding(
44        padding: EdgeInsets.all(20),
45        child: Form(
46          key: _formkey,
47          child: Column(
48            mainAxisAlignment: MainAxisAlignment.center,
49            children: [
50              TextFormField(
51                controller: nom1,
52                keyboardType: TextInputType.text,
53                decoration: InputDecoration(
54                  labelText: 'Escribe un Nombre',
55                  border: OutlineInputBorder(),
56                ), // InputDecoration
57              ), // TextFormField
58              TextFormField(
59                controller: nom2,
60                decoration: InputDecoration(
61                  labelText: 'Escribe otro Nombre',
62                  border: OutlineInputBorder(),
63                ), // InputDecoration
64                validator: aplicarValidacion,
65              ), // TextFormField
66              SizedBox(height: 10),
67              SizedBox(
68                width: double.infinity,
69                child: ElevatedButton.icon(
70                  onPressed: validarDatos,
71                  label: Text('validar'),
72                  icon: Icon(Icons.window),
73                ), // ElevatedButton.icon
74              ), // SizedBox
75            ],
76          ), // Column
77        ), // Form
78      ), // Padding
79    ); // Scaffold
80  }
81}
82
```

Este es el formulario donde pusimos dos cajas de texto y un botón para nombre con su validación y que diga si el dato es correcto o incorrecto.

localhost:61523

localhost:61523

Formulario

DEBUG

Escribe un Nombre —

sofia

Escribe otro Nombre —

jose

validar

Dato Correcto

*Este es el resultado de la aplicación realizada.*

## PROGRAMA 3 P2

```
lib > main.dart > main
1 import 'package:flutter/material.dart';
2 import 'package:flutter_application_3/widget/Pagina.dart';
3
4 void main() {
5   runApp(const MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   const MyApp({super.key});
10
11   // This widget is the root of your application.
12   @override
13   Widget build(BuildContext context) {
14     return MaterialApp(home: Pagina());
15   }
16 }
17
```

Comenzamos con el `main` y llamando a su respectiva página.

```
6   class Pagina extends StatefulWidget {
7     const Pagina({super.key});
8     @override
9     State<StatefulWidget> createState() {
10    return Disenio();
11  }
12 }
13
14 class Disenio extends State<Pagina> {
15   int _index = 0;
16   @override
17   Widget build(BuildContext context) {
18     return Scaffold(
19       appBar: AppBar(
20         title: Text(
21           'buttonNavigatorBar',
22           style: TextStyle(color: Colors.white),
23         ), // Text
24         backgroundColor: const Color.fromARGB(255, 171, 227, 142),
25       ), // AppBar
26       body: _index == 0 ? Izquierdo() : (_index == 1 ? Centro() : Derecho()),
27       bottomNavigationBar: BottomNavigationBar(
28         backgroundColor: Colors.lightGreen,
29         items: [
30           BottomNavigationBarItem(
31             icon: Icon(Icons.airlines),
32             label: 'Izquierdo',
33           ), // BottomNavigationBarItem
34           BottomNavigationBarItem(icon: Icon(Icons.zoom_out), label: 'Derecho'),
35           BottomNavigationBarItem(icon: Icon(Icons.add_call), label: 'Centro'),
36         ],
37         currentIndex: _index,
38         selectedItemColor: Colors.purpleAccent,
39         onTap: (index) {
40           setState(() {
41             setState(() {
42               _index = index;
43             });
44           }, // BottomNavigationBar
45         ); // Scaffold
46       }
47     );
48 }
```

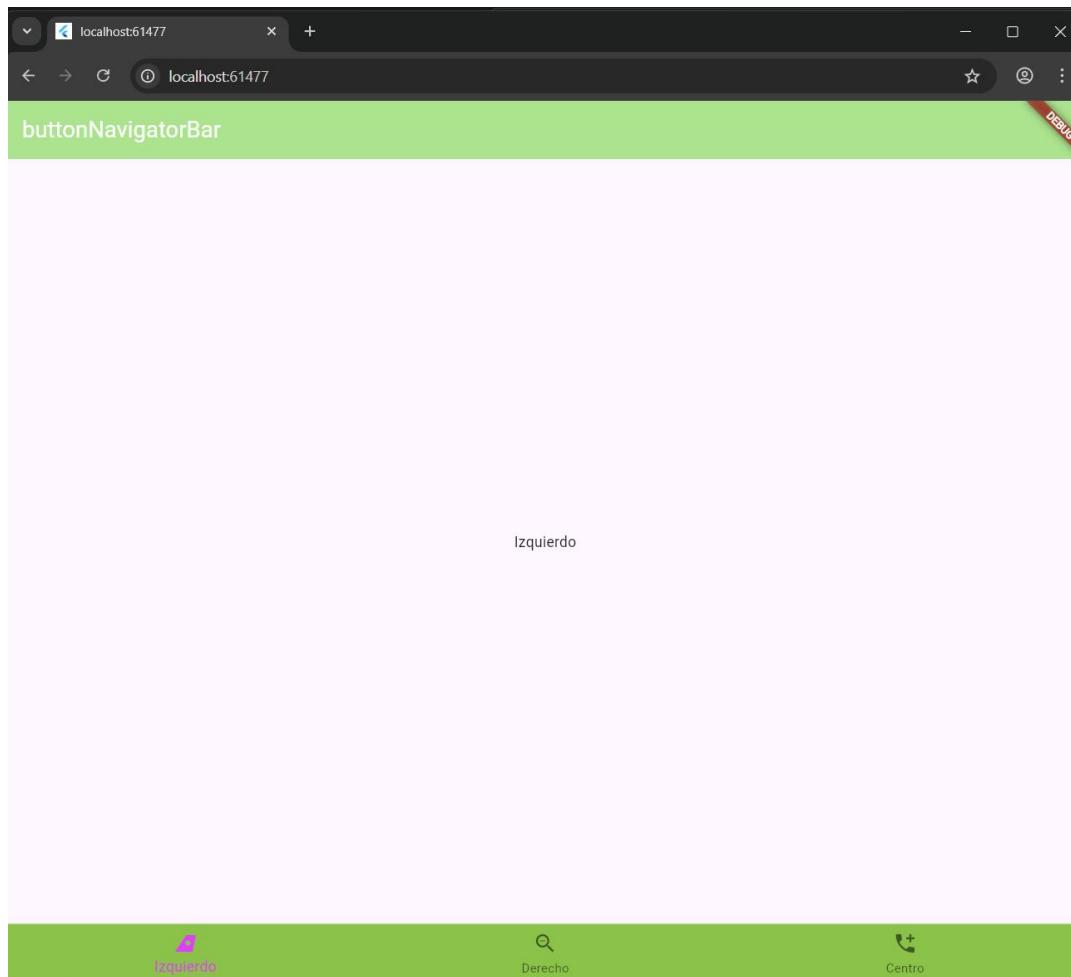
Creamos la página y hicimos el diseño de la aplicación donde mandamos a llamar con un buttonnavigatorbar para que el índice se mire abajo.

```
lib > widget > Izquierdo.dart > Body
1 import 'package:flutter/material.dart';
2
3 class Izquierdo extends StatefulWidget {
4   const Izquierdo({super.key});
5
6   @override
7   State< StatefulWidget> createState() {
8     return Body();
9   }
10 }
11
12 class Body extends State<Izquierdo> {
13   final n1 = TextEditingController();
14   final n2 = TextEditingController();
15   @override
16   Widget build(BuildContext context) {
17     return Center(child: Text('Izquierdo'));
18   }
19 }
20
```

Después creamos otra página llamada izquierda donde aquí hacemos que los datos se manden a la siguiente página.

```
lib > widget > Derecho.dart > ...
1 import 'package:flutter/material.dart';
2
3 class Derecho extends StatefulWidget {
4   const Derecho({super.key});
5
6   @override
7   State< StatefulWidget> createState() {
8     return Body();
9   }
10 }
11
12 class Body extends State< Derecho > {
13   @override
14   Widget build(BuildContext context) {
15     return Center(child: Text('Derecho'));
16   }
17 }
18
```

```
lib > widget > Centro.dart > Centro > createState
1 import 'package:flutter/material.dart';
2
3 class Centro extends StatefulWidget {
4   const Centro({super.key});
5
6   @override
7   State<StatefulWidget> createState() [
8     return Body();
9   ]
10 }
11
12 class Body extends State<Centro> {
13   @override
14   Widget build(BuildContext context) {
15     return Center(child: Text('Suma'));
16   }
17 }
18
```



Este es el resultado y como se ve el botón con sus páginas diferentes en la parte de abajo.

## PROGRAMA 4 P2

```
  ↴ import 'package:flutter/material.dart';
    ↴ import 'package:flutter_application_4/widget/Pagina1.dart';

    Run | Debug | Profile
  ↴ void main() {
    ↴   runApp(const MyApp());
  ↴ }

  ↴ class MyApp extends StatelessWidget {
    const MyApp({super.key});

    // This widget is the root of your application.
    @override
    Widget build(BuildContext context) {
      ↴   return MaterialApp(home: Pagina1());
    }
  }
```

Agregamos el main llamando a la página.

```
7  class Pagina1 extends StatefulWidget {
8    const Pagina1({super.key});
9    @override
10   State<StatefulWidget> createState() {
11     return Disenio();
12   }
13 }

14
15 class Disenio extends State<Pagina1> {
16   int _index = 0;
17   @override
18   Widget build(BuildContext context) {
19     return Scaffold(
20       appBar: AppBar(
21         title: Text(
22           'OPERACIONES',
23           style: TextStyle(color: Colors.white),
24         ), // Text
25         backgroundColor: const Color.fromRGBO(255, 171, 227, 142),
26       ), // AppBar
27       body: _index == 0
28         ? Suma()
29         : _index == 1
30         ? Resta()
31         : _index == 2
32         ? Multiplicacion()
33         : Division(),
34       bottomNavigationBar: BottomNavigationBar(
35         type: BottomNavigationBarType.fixed,
36         backgroundColor: Colors.lightGreen,
37         items: [
38           BottomNavigationBarItem(icon: Icon(Icons.add), label: 'SUMA'),
39           BottomNavigationBarItem(icon: Icon(Icons.remove), label: 'RESTA'),
40           BottomNavigationBarItem(
41             icon: Icon(Icons.refresh), label: 'REFRESCAR')
42         ],
43       ),
44     );
45   }
46 }
```

```
41         icon: Icon(Icons.close),
42         label: 'MULTIPLICACION',
43     ), // BottomNavigationBarItem
44     BottomNavigationBarItem(icon: Icon(Icons.percent), label: 'DIVISION'),
45 ],
46 currentIndex: _index,
47 selectedItemColor: const Color.fromRGBO(255, 83, 17, 95),
48
49     onTap: (index) {
50         setState(() {
51             _index = index;
52         });
53     },
54 ), // BottomNavigationBar
55 ); // Scaffold
56 }
57 }
58 }
```

Ilustración 1 creamos la pagina1 donde hicimos el diseño para hacer una suma,resta,multiplicacion y division mediante un buttondrawer.

```
5 class Suma extends StatefulWidget {
6   const Suma({super.key});
7
8   @override
9   State< StatefulWidget > createState() {
10  |   return body();
11  }
12 }
13
14 void sumar() {}
15
16 class body extends State<Suma> {
17   final n1 = TextEditingController();
18   final n2 = TextEditingController();
19   @override
20   Widget build(BuildContext context) {
21     return Scaffold(
22       body: Center(
23         child: Padding(
24           padding: EdgeInsetsGeometry.all(15),
25           child: Card(
26             elevation: 18,
27             shape: RoundedRectangleBorder(
28               borderRadius: BorderRadiusGeometry.circular(5),
29             ), // RoundedRectangleBorder
30             child: SingleChildScrollView(
31               child: Padding(
32                 padding: const EdgeInsets.all(15.0),
33                 child: Column(
34                   mainAxisSize: MainAxisSize.min,
35                   children: [
36                     SizedBox(width: double.infinity),
37                     SizedBox(
38                       width: double.infinity,
```

```
        child: TextField(
            controller: n1,
            keyboardType: TextInputType.number, // Teclado numérico
            inputFormatters: [
                FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
            ],
            decoration: InputDecoration(
                labelText: 'Escribe un numero',
                border: OutlineInputBorder(),
            ), // InputDecoration
        ), // TextField
    ), // SizedBox
    SizedBox(height: 8),
    SizedBox(
        width: double.infinity,
        child: TextField(
            controller: n2,
            keyboardType: TextInputType.number, // Teclado numérico
            inputFormatters: [
                FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
            ],
            decoration: InputDecoration(
                labelText: 'Escribe el segundo numero',
                border: OutlineInputBorder(),
            ), // InputDecoration
        ), // TextField
    ), // SizedBox
    SizedBox(height: 8),
    SizedBox(
        width: double.infinity,
        child: ElevatedButton(
            onPressed: sumar,
        ), // ElevatedButton
    ), // Container
), // Column

```

```
69         child: ElevatedButton(
70             onPressed: sumar,
71             child: Text('Sumar'),
72         ), // ElevatedButton
73     ), // SizedBox
74 ],
75 ), // Column
76 ), // Padding
77 ), // SingleChildScrollView
78 ), // Card
79 ), // Padding
80 ), // Center
81 ); // Scaffold
82 }
83 }
84 }
```

*Esta es la página de sumar donde esta validado que solo sea numeros y se haga la suma de dos números*

```
5  class Resta extends StatefulWidget {
6    const Resta({super.key});
7
8    @override
9    State<StatefulWidget> createState() {
10      return body();
11    }
12  }
13
14 void restar() {}
15
16 class body extends State<Resta> {
17   final n1 = TextEditingController();
18   final n2 = TextEditingController();
19   @override
20   Widget build(BuildContext context) {
21     return Scaffold(
22       body: Center(
23         child: Padding(
24           padding: EdgeInsetsGeometry.all(15),
25           child: Card(
26             elevation: 18,
27             shape: RoundedRectangleBorder(
28               borderRadius: BorderRadiusGeometry.circular(5),
29             ), // RoundedRectangleBorder
30             child: SingleChildScrollView(
31               child: Padding(
32                 padding: const EdgeInsets.all(15.0),
33                 child: Column(
34                   mainAxisAlignment: MainAxisAlignment.min,
35                   children: [
36                     SizedBox(
37                       width: double.infinity,
38                       child: TextField(
39                         controller: n1,
40                         keyboardType: TextInputType.number, // Teclado numérico
41                         inputFormatters: [
42                           FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
43                         ],
44                         decoration: InputDecoration(
45                           labelText: 'Escribe un numero',
46                           border: OutlineInputBorder(),
47                         ), // InputDecoration
48                         ), // TextField
49                     ), // SizedBox
50                     SizedBox(height: 8),
51                     SizedBox(
52                       width: double.infinity,
53                       child: TextField(
54                         controller: n2,
55                         keyboardType: TextInputType.number, // Teclado numérico
56                         inputFormatters: [
57                           FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
58                         ],
59                         decoration: InputDecoration(
60                           labelText: 'Escribe el segundo numero',
61                           border: OutlineInputBorder(),
62                         ), // InputDecoration
63                         ), // TextField
64                     ), // SizedBox
65                     SizedBox(height: 8),
66                     SizedBox(
67                       width: double.infinity,
68                       child: ElevatedButton(
69                         onPressed: restar,
70                         child: Text('restar'),
71                       ). // ElevatedButton
```

```
0           child: Text('Restar'),
1               ),
2           ), // ElevatedButton
3           ],
4           ],
5           ),
6           ), // Column
7           ),
8           ), // Padding
9           ),
10          ), // SingleChildScrollView
11          ),
12          ), // Card
13          ),
14          ), // Padding
15          ),
16          ), // Center
17          );
18      ); // Scaffold
19  }
20 }
```

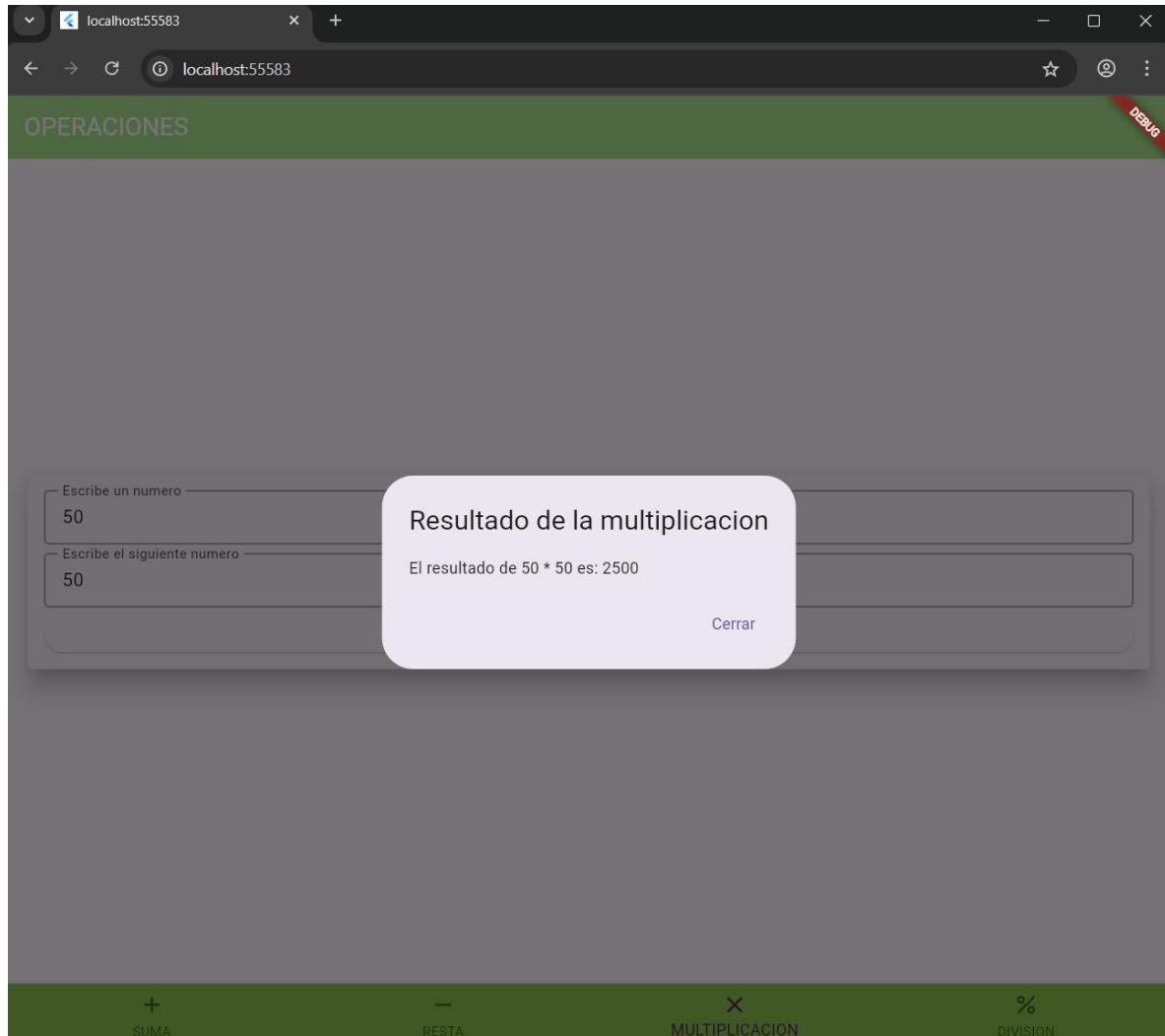
Aqui hice el mismo codigo pero ahora de restar validando que solo sean numeros.

```
5 class Multiplicacion extends StatefulWidget {
6   const Multiplicacion({super.key});
7
8   @override
9   State<StatefulWidget> createState() {
10  |   return body();
11  }
12 }
13
14 void multiplicar() {}
15
16 class body extends State<Multiplicacion> {
17   final n1 = TextEditingController();
18   final n2 = TextEditingController();
19   @override
20   Widget build(BuildContext context) {
21     return Scaffold(
22       body: Center(
23         child: Padding(
24           padding: EdgeInsetsGeometry.all(15),
25           child: Card(
26             elevation: 18,
27             shape: RoundedRectangleBorder(
28               borderRadius: BorderRadiusGeometry.circular(5),
29             ), // RoundedRectangleBorder
30             child: SingleChildScrollView(
31               child: Padding(
32                 padding: const EdgeInsets.all(15.0),
33                 child: Column(
34                   mainAxisSize: MainAxisSize.min,
35                   children: [
36                     SizedBox(
37                       width: double.infinity,
38                       child: TextField(
39                         controller: n1,
```

```
        keyboardType: TextInputType.number, // Teclado numérico
        inputFormatters: [
            FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
        ],
        decoration: InputDecoration(
            labelText: 'Escribe un numero',
            border: OutlineInputBorder(),
        ), // InputDecoration
    ), // TextField
), // SizedBox
SizedBox(height: 8),
SizedBox(
    width: double.infinity,
    child: TextField(
        controller: n2,
        keyboardType: TextInputType.number, // Teclado numérico
        inputFormatters: [
            FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
        ],
        decoration: InputDecoration(
            labelText: 'Escribe el siguiente numero',
            border: OutlineInputBorder(),
        ), // InputDecoration
    ), // TextField
), // SizedBox
SizedBox(height: 8),
SizedBox(
    width: double.infinity,
    child: ElevatedButton(
        onPressed: multiplicar,
        child: Text('Multiplicar'),
    ), // ElevatedButton
), // SizedBox
```

*Esta parte es la de multiplicar.*

```
5   class Division extends StatefulWidget {
6     const Division({super.key});
7
8     @override
9     State<Division> createState() {
10       return body();
11     }
12   }
13
14 void Dividir() {}
15
16 class body extends State<Division> {
17   final n1 = TextEditingController();
18   final n2 = TextEditingController();
19   @override
20   Widget build(BuildContext context) {
21     return Scaffold(
22       body: Center(
23         child: Padding(
24           padding: EdgeInsetsGeometry.all(15),
25           child: Card(
26             elevation: 18,
27             shape: RoundedRectangleBorder(
28               borderRadius: BorderRadiusGeometry.circular(5),
29             ), // RoundedRectangleBorder
30             child: SingleChildScrollView(
31               child: Padding(
32                 padding: const EdgeInsets.all(15.0),
33                 child: Column(
34                   mainAxisAlignment: MainAxisAlignment.min,
35                   children: [
36                     SizedBox(width: double.infinity),
37                     SizedBox(
38                       width: double.infinity,
39                       child: TextField(
40                         controller: n1,
41                         keyboardType: TextInputType.number, // Teclado numérico
42                         inputFormatters: [
43                           FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
44                         ],
45                         decoration: InputDecoration(
46                           labelText: 'Escribe un numero',
47                           border: OutlineInputBorder(),
48                         ), // InputDecoration
49                         ), // TextField
50                         ), // SizedBox
51                         SizedBox(height: 8),
52                         SizedBox(
53                           width: double.infinity,
54                           child: TextField(
55                             controller: n2,
56                             keyboardType: TextInputType.number,
57                             inputFormatters: [
58                               FilteringTextInputFormatter.allow(RegExp(r'[0-9]')),
59                             ],
60                             decoration: InputDecoration(
61                               labelText: 'Escribe el siguiente numero',
62                               border: OutlineInputBorder(),
63                             ), // InputDecoration
64                             ), // TextField
65                           ), // SizedBox
66                           SizedBox(height: 8),
67                           SizedBox(
68                             width: double.infinity,
69                             child: ElevatedButton(
70                               onPressed: Dividir,
71                               child: Text('Dividir'),
72                             ), // ElevatedButton
73                           ),
74                         ],
75                       ),
76                     ],
77                   ),
78                 ),
79               ),
80             ),
81           ),
82         ),
83       ),
84     );
85   }
86 }
```



Este es el diseño de la aplicación.

## PROGRAMA 5 P2

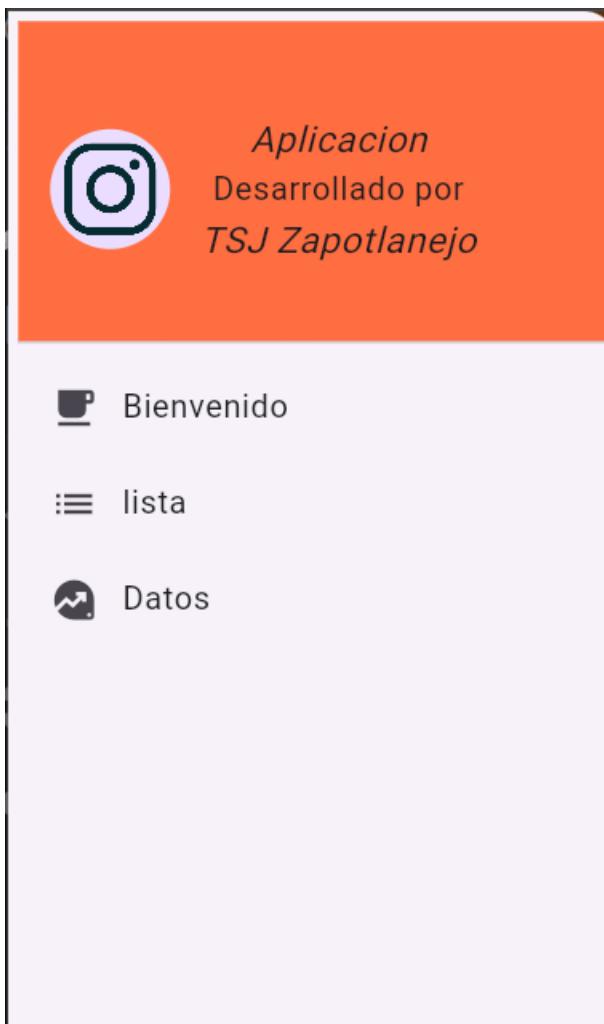
```
1 import 'package:flutter/material.dart';
2 import 'package:flutter_application_5/widget/main.dart';
3
4 Run | Debug | Profile
5 void main() {
6   runApp(const MyApp());
7 }
8 class MyApp extends StatelessWidget {
9   const MyApp({super.key});
10
11   // This widget is the root of your application.
12   @override
13   Widget build(BuildContext context) {
14     return MaterialApp(home: Main());
15   }
16 }
17
```

Comenzamos con agregar a el main llamando a la página donde se ejecutará todo.

```
6   class Maine extends StatefulWidget {
7     const Maine({super.key});
8
9     @override
10    State<StatefulWidget> createState() {
11      return Base();
12    }
13  }
14
15  class Base extends State<Maine> {
16    int _index = 0;
17    final List<Widget> _paginas = [Home(), Listas(), Datos()];
18    void _clikIndex(int i) {
19      setState(() {
20        _index = i;
21      });
22    }
23
24    @override
25    Widget build(BuildContext context) {
26      return Scaffold(
27        appBar: AppBar(
28          title: Text(
29            'APLICACION NUEVA',
30            style: TextStyle(color: const Color.fromRGBO(255, 226, 223, 228)),
31          ), // Text
32          backgroundColor: const Color.fromRGBO(255, 209, 102, 31),
33
34        drawer: Drawer(
35          child: ListView(
36            padding: EdgeInsets.all(5),
37            children: [
38              DrawerHeader(
39                decoration: BoxDecoration(color: Colors.deepOrangeAccent),
40                child: Row(
41                  children: [
42                    CircleAvatar(
43                      radius: 30,
44                      backgroundImage: AssetImage('assets/insta.png'),
45                    ), // CircleAvatar
46                    Padding(
47                      padding: const EdgeInsets.only(left: 15, right: 20),
48                      child: Column(
49                        mainAxisAlignment: MainAxisAlignment.center,
50                        children: [
51                          Text(
52                            'Aplicacion',
53                            style: TextStyle(
54                              fontSize: 18,
55                              fontFamily: "Times New Roman",
56                              fontStyle: FontStyle.italic,
57                            ), // TextStyle
58                          ), // Text
59                          Text('Desarrollado por'),
60                          Text(
61                            'TSJ Zapotlanejo',
62                            style: TextStyle(
63                              fontSize: 18,
64                              fontFamily: "Times New Roman",
65                              fontStyle: FontStyle.italic,
66                            ), // TextStyle
67                          ), // Text
68                        ],
69                      ),
70                    ),
71                  ],
72                ),
73              ),
74            ],
75          ),
76        ),
77      );
78    }
79  }
80
81  class Home extends StatelessWidget {
82    const Home({super.key});
83
84    @override
85    Widget build(BuildContext context) {
86      return Container(
87        color: Colors.white,
88        child: Center(
89          child: Text(
90            'Página de inicio',
91            style: TextStyle(
92              color: Colors.black,
93              fontSize: 24,
94              fontWeight: FontWeight.bold,
95            ),
96          ),
97        ),
98      );
99    }
100  }
101
102  class Listas extends StatelessWidget {
103    const Listas({super.key});
104
105    @override
106    Widget build(BuildContext context) {
107      return Container(
108        color: Colors.white,
109        child: Center(
110          child: Text(
111            'Listas',
112            style: TextStyle(
113              color: Colors.black,
114              fontSize: 24,
115              fontWeight: FontWeight.bold,
116            ),
117          ),
118        ),
119      );
120    }
121  }
122
123  class Datos extends StatelessWidget {
124    const Datos({super.key});
125
126    @override
127    Widget build(BuildContext context) {
128      return Container(
129        color: Colors.white,
130        child: Center(
131          child: Text(
132            'Datos',
133            style: TextStyle(
134              color: Colors.black,
135              fontSize: 24,
136              fontWeight: FontWeight.bold,
137            ),
138          ),
139        ),
140      );
141    }
142  }
```

```
66           ), // TextStyle
67           ), // Text
68           ],
69           ), // Column
70           ),
71           ],
72           ), // Row
73           ), // DrawerHeader
74           ListTile(
75             leading: Icon(Icons.local_cafe),
76             title: Text('Bienvenido'),
77             onTap: () {
78               _clikIndex(0);
79               Navigator.pop(
80                 context,
81               ); // es para cuando haga clik se cierre el menu
82             },
83           ), // ListTile
84           ListTile(
85             leading: Icon(Icons.list),
86             title: Text('lista'),
87             onTap: () {
88               _clikIndex(1);
89               Navigator.pop(context);
90             },
91           ), // ListTile
92           ListTile(
93             leading: Icon(Icons.data_exploration),
94             onTap: () {
95               _clikIndex(2);
96               Navigator.pop(context);
97             },
98             title: Text('Datos').
```

```
99   ), // ListTile
100  ],
101  ),
102  ),
103  body: _paginas[_index],
104  );
105 }
106 }
107 }
```



Esta es la página principal llamada maine que se mostrara y tiene el diseño principal

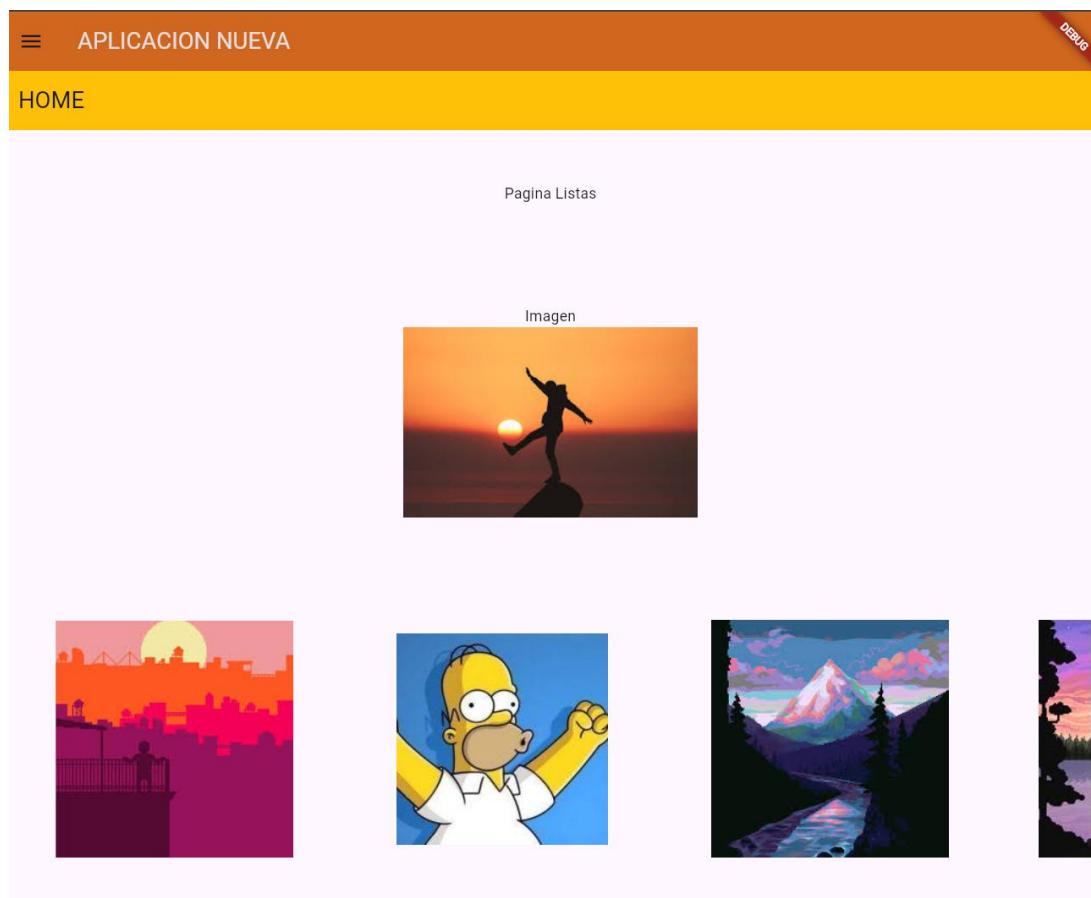
```
! pubspec.yaml
38 dev_dependencies:
48
49 # For information on the generic Dart part of this file, see the
50 # following page: https://dart.dev/tools/pub/pubspec
51
52 # The following section is specific to Flutter packages.
53 flutter:
54
55 # The following line ensures that the Material Icons font is
56 # included with your application, so that you can use the icons in
57 # the material Icons class.
58 uses-material-design: true
59
60 # To add assets to your application, add an assets section, like this:
61 assets:
62   - assets/
63   # - images/a_dot_ham.jpeg
64
65 # An image asset can refer to one or more resolution-specific "variants", see
66 # https://flutter.dev/to/resolution-aware-images
67
68 # For details regarding adding assets from package dependencies, see
69 # https://flutter.dev/to/asset-from-package
70
71 # To add custom fonts to your application, add a fonts section here,
72 # in this "flutter" section. Each entry in this list should have a
73 # "family" key with the font family name, and a "fonts" key with a
74 # list giving the asset and other descriptors for the font. For
```

En este apartado para poder poner imágenes habilito la carpeta assets para poder poner imágenes.

```
3 class Home extends StatefulWidget {
4   const Home({super.key});
5   @override
6   State<StatefulWidget> createState() {
7     return Clase();
8   }
9 }
10
11 class Clase extends State<Home> {
12   @override
13   Widget build(BuildContext context) {
14     return Scaffold(
15       appBar: AppBar(title: Text('HOME'), backgroundColor: Colors.amber),
16       body: Padding(
17         padding: const EdgeInsets.all(8.0),
18         child: Column(
19           children: [
20             Expanded(flex: 1, child: Center(child: Text('Pagina Listas'))),
21             Expanded(
22               flex: 3,
23               child: Column(
24                 mainAxisAlignment: MainAxisAlignment.center,
25                 children: [
26                   Text('Imagen'),
27                   Image.network(
28                     'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRIVI1_Q8PI7Tsak9HIx2cK2ayLAcpwRqS7yQ&s',
29                     ), // Image.network
30                   ],
31                 ),
32             ), // Column
33             Expanded(
34               flex: 3,
35               child: ListView(
36                 scrollDirection: Axis.horizontal,
37                 children: [
38                   Image.network(
39                     'data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAKGBxMSERUSEBISFhUXEhgWFhUXFhYVEAXFhUwFhUwFRUYHSggG',
40                   ), // Image.network
41                 ],
42               ),
43             ), // Expanded
44           ],
45         ),
46       ),
47     );
48   }
49 }
```

```
39      'data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxMSERUSEBISFhUXFhYVEBAFhUWFhUWFhFRUYHSggG
40      ), // Image.network
41      Image.network(
42        'data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxANe4QEBAQDg8NChISDQ8ODg0PFxYWFxgTHx8YHsgsJ
43      ), // Image.network
44      Image.network(
45        'data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxMREhUSEhMWFRMVFxgXFhUXGBYXFRUYGBcXFxUYFxUYHSggG
46      ), // Image.network
47      Image.network(
48        'data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAAD/2wCEAAkGBxMTEhUSExMVFhUVFRUYGBcYGBkWFRgXFRRYYFhUXFxYZHSggG
49      ), // Image.network
50      ],
51    ), // ListView
52  ), // Expanded
53  ],
54 ), // Column
55 ), // Padding
56 ); // Scaffold
57
58 }
59 }
```

En la página Home inserte varias imágenes de forma horizontal.



Este es el diseño de la pagina home

```
3   class Listas extends StatefulWidget {
4     const Listas({super.key});
5     @override
6     State<StatefulWidget> createState() {
7       return Clase();
8     }
9   }
10
11 class Clase extends State<Listas> {
12   @override
13   Widget build(BuildContext context) {
14     return Scaffold(
15       body: Center(
16         child: ListView(
17           scrollDirection: Axis.vertical,
18           children: [
19             SizedBox(
20               height: 400,
21               width: 400,
22               child: Image.asset('assets/img1.jpg'),
23             ), // SizedBox
24             SizedBox(
25               height: 400,
26               width: 400,
27               child: Image.asset('assets/img2.jpg'),
28             ), // SizedBox
29             SizedBox(
30               height: 400,
31               width: 400,
32               child: Image.asset('assets/img4.jpg'),
33             ), // SizedBox
34             SizedBox(
35               height: 400,
36               width: 400,
37               child: Image.asset('assets/img5.jpg'),
38             ), // SizedBox
39           ],
40         ), // ListView
41       ), // Center
42     ); // Scaffold
43   }
44 }
```

Este es el código de la página listas.

≡ APPLICACION NUEVA

DEBUG



*Este es el diseño de la pagina listas.*

```
3  class Datos extends StatefulWidget {
4    const Datos({super.key});
5    @override
6    State<StatefulWidget> createState() {
7      return Clase();
8    }
9  }
10
11 class Clase extends State<Datos> {
12   @override
13   Widget build(BuildContext context) {
14     return Scaffold(
15       appBar: AppBar(
16         title: Text('HOME'),
17         backgroundColor: const Color.fromRGBO(255, 252, 249, 80),
18       ), // AppBar
19       body: Column(
20         children: [
21           Expanded(
22             child: Container(
23               width: double.infinity,
24               color: Colors.orangeAccent,
25               padding: EdgeInsets.all(25),
26               child: Column(
27                 mainAxisAlignment: MainAxisAlignment.center,
28                 children: [
29                   Text(
30                     'Esta aplicacion esta echo por:',
31                     style: TextStyle(
32                       fontSize: 20,
33                       fontFamily: "Times New Roman",
34                       fontStyle: FontStyle.italic,
35                     ), // TextStyle
36                   ), // Text
37                   Text('Sofia Nuño De Anda'),
38
39                   Text(
40                     'Gracias por estar aqui',
41                     style: TextStyle(
42                       fontSize: 18,
43                       fontFamily: "Times New Roman",
44                       fontStyle: FontStyle.italic,
45                     ), // TextStyle
46                   ), // Text
47                   SizedBox(
48                     height: 400,
49                     width: 400,
50                     child: Image.asset('assets/soft.jpg'),
51                   ), // SizedBox
52
53                   ], // Column
54                 ), // Container
55               ], // Expanded
56             ), // Column
57           ); // Scaffold
58         }
59 }
```

Este es el código de la pagina datos.



Este es el diseño solo que me fallo y la imagen no apareció bien.

## PROGRAMA 6 P2

```
1 import 'package:flutter/material.dart';
2 import 'package:flutter_application_6/widget/pagina1.dart';
3
4 Run | Debug | Profile
5 void main() {
6   runApp(const MyApp());
7 }
8
9 class MyApp extends StatelessWidget {
10   const MyApp({super.key});
11
12   // This widget is the root of your application.
13   @override
14   Widget build(BuildContext context) {
15     return MaterialApp(home: Principal());
16   }
17 }
```

Agregamos el `main` con su método `principal`.

```
4 class Principal extends StatefulWidget {
5   const Principal({super.key});
6
7   @override
8   State<StatefulWidget> createState() {
9     return Clase();
10   }
11 }
12
13 class Clase extends State<Principal> {
14   final TextEditingController usuario = TextEditingController();
15   final TextEditingController password = TextEditingController();
16   void validar() {
17     String u = usuario.text;
18     String p = password.text;
19     if (u.isNotEmpty || p.isNotEmpty) {
20       if (u == 'sofia' && p == '12345') {
21         Navigator.push(
22           context,
23           MaterialPageRoute(builder: (context) => pagina2(usuario: u)),
24         );
25       } else {
26         ScaffoldMessenger.of(
27           context,
28           ).showSnackBar(SnackBar(content: Text('Error usuario incorrecto')));
29       }
30     } else {
31       ScaffoldMessenger.of(
32           context,
33           ).showSnackBar(SnackBar(content: Text('Error datos vacios')));
34     }
35   }
36
37   @override
38   Widget build(BuildContext context) {
39     return Scaffold(
40       appBar: AppBar(title: Text('Practica 6'), backgroundColor: Colors.purple),
41       body: Center(
```

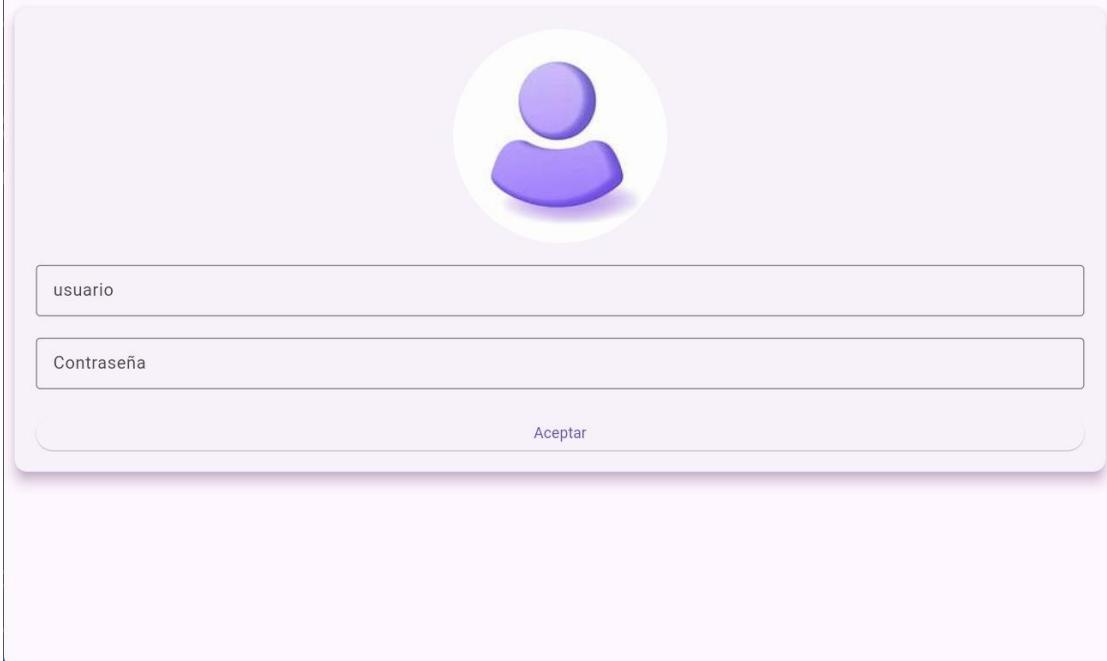
```
41     body: Center(
42       child: SingleChildScrollView(
43         child: Card(
44           elevation: 10,
45           shadowColor: const Color.fromARGB(255, 220, 169, 228),
46           margin: EdgeInsets.all(10),
47           child: Padding(
48             padding: const EdgeInsets.all(20.0),
49             child: Column(
50               mainAxisAlignment: MainAxisAlignment.min,
51               children: [
52                 SizedBox(
53                   width: 200,
54                   height: 200,
55                   child: CircleAvatar(
56                     radius: 50,
57                     backgroundImage: AssetImage('assets/usuario.jpg'),
58                   ), // CircleAvatar
59                 ), // SizedBox
60                 const SizedBox(height: 20),
61                 TextField(
62                   controller: usuario,
63                   decoration: const InputDecoration(
64                     labelText: 'usuario',
65                     border: OutlineInputBorder(),
66                   ), // InputDecoration
67                 ), // TextField
68                 const SizedBox(height: 20),
69                 TextField(
70                   controller: password,
71                   obscureText: true,
72                   decoration: const InputDecoration(
73                     labelText: 'Contraseña',
74                     border: OutlineInputBorder(),
75                   ), // InputDecoration
76                 ), // TextField
```

```
75               ), // InputDecoration
76             ), // TextField
77             const SizedBox(height: 25),
78             SizedBox(
79               width: double.infinity,
80               child: ElevatedButton(
81                 onPressed: validar,
82                 child: Text('Aceptar'),
83               ), // ElevatedButton
84             ), // SizedBox
85           ],
86         ), // Column
87       ), // Padding
88     ), // Card
89   ), // SingleChildScrollView
90 ), // Center
91 ); // Scaffold
92 }
93 }
```

Este es el código de la pagina 1.

Practica 6

DEBUG



Este es el diseño de la página 1.

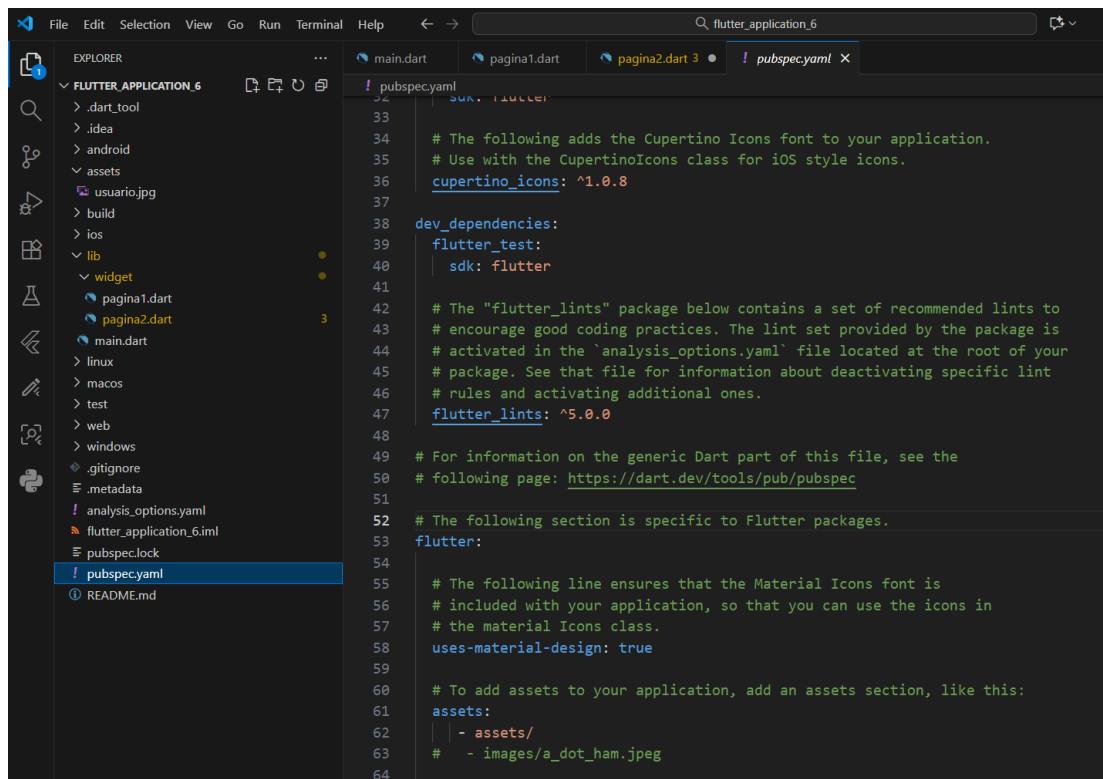
```
4  class pagina2 extends StatefulWidget {
5    final String usuario;
6    const pagina2({super.key, required this.usuario});
7
8    @override
9    State<StatefulWidget> createState() {
10      return clase2();
11    }
12  }
13
14 class clase2 extends State<página2> {
15   final _llave =
16     GlobalKey<
17       | FormState
18     >(); // este es el metodo principal para poder empezar a validar
19   final TextEditingController nombre = TextEditingController();
20   final TextEditingController edad = TextEditingController();
21   final TextEditingController telefono = TextEditingController();
22   final TextEditingController correo = TextEditingController();
23
24   late String cad; // es para que las dos clases se comuniquen y funcione el cad
25   @override
26   void initState() {
27     super.initState();
28     cad =
29     || "usuario ${widget.usuario}"; //es para concatenar la palabra usuario y muestre en la pagina siguiente
30   }
31
32   String? _validarnombre(String? value) {
33     if (value == null || value.isEmpty) {
34       return 'Escribe un nombre';
35     }
36 }
```

```
34     |     return 'Escribe un nombre';
35   |   }
36   final exp = RegExp(r'^[a-zA-Z\s]+$');// validacion de letras
37   if (!exp.hasMatch(value)) {
38     |     return 'Ingresa solo letras';
39   }
40   return null;
41 }
42
43 String? _validaredad(String? value) {
44   if (value == null || value.isEmpty) {
45     |     return 'Escribe una edad';
46   }
47   final exp = RegExp(r'^[0-9]+$');// validacion de numeros
48   if (!exp.hasMatch(value)) {
49     |     return 'Ingresa solo numeros';
50   }
51   return null;
52 }
53
54 String? _validartelefono(String? value) {
55   if (value == null || value.isEmpty) {
56     |     return 'Escribe un telefono';
57   }
58   final exp = RegExp(r'^[0-9]+$');// validacion para telefono
59   if (!exp.hasMatch(value)) {}
60   if (value.length == 10) {
61     |     return 'Ingresa solo numeros';
62   }
63   return null;
64 }
65
66 String? _validarcorreo(String? value) {
67   if (value == null || value.isEmpty) {
68     |     return 'Escribe un correo';
69   }
70   final exp = RegExp(r'^[^@]+@[^.]+\.[a-zA-Z]{2,}$');// validacion para correo
71   if (!exp.hasMatch(value)) {
72     |     return 'Ingresa solo numeros y letras';
73   }
74   return null;
75 }
76
77 void validar() {
78   if (_llave.currentState?.validate() ?? false) {
79     String n = nombre.text;
80     int e = int.tryParse(edad.text) ?? 0;
81     int t = int.tryParse(telefono.text) ?? 0;
82     String c = correo.text;
83     print(n); //para imprimir el mensaje
84   } else {
85     ScaffoldMessenger.of(
86       context,
87     ).showSnackBar(SnackBar(content: Text('Datos Incorrectos')));
88     // esto es solo para que no este vacio aqui no esta la validacion
89   }
90 }
```

```
92  @override
93  Widget build(BuildContext context) {
94    return Scaffold(
95      appBar: AppBar(
96        title: Text('Pagina 2'),
97        backgroundColor: Colors.purpleAccent,
98      ), // AppBar
99      body: Padding(
100        padding: const EdgeInsets.all(18.0),
101        child: Column(
102          children: [
103            Expanded(child: Text(cad, style: TextStyle(fontSize: 24))),
104            Expanded(
105              flex: 4,
106              child: Form(
107                key: _llave, // para poder cambiarlos a TextFormField
108                child: Column(
109                  children: [
110                    TextFormField(
111                      controller: nombre,
112                      decoration: const InputDecoration(
113                        labelText: 'Nombre',
114                        border: OutlineInputBorder(),
115                      ), // InputDecoration
116                      validator: _validarnombre,
117                    ), // TextFormField
118                    TextFormField(
119                      controller: edad,
120                      decoration: const InputDecoration(
121                        labelText: 'Edad',
122                        border: OutlineInputBorder(),
123                        ),
124                        ),
125                        ),
126                        ),
127                        ),
128                        ),
129                        ),
130                        ),
131                        ),
132                        ),
133                        ),
134                        ),
135                        ),
136                        ),
137                        ),
138                        ),
139                        ),
140                        ),
141                        ],
142                      ],
143                    ), // Column
144                  ), // Form
145                ), // Expanded
146                Expanded(
147                  flex: 1,
148                  child: Padding(
149                    padding: const EdgeInsets.only(top: 10, bottom: 10),
150                    child: SizedBox(
151                      width: double.infinity,
```

```
152         child: ElevatedButton(
153             onPressed: validar,
154             child: Text('Aceptar'),
155         ), // ElevatedButton
156     ), // SizedBox
157     ), // Padding
158     ), // Expanded
159 ],
160 ), // Column
161 ), // Padding
162 ); // Scaffold
163 }
164 }
```

Este es código de la página 2 vienen cajas de texto y validaciones.



The screenshot shows a code editor interface with the title bar "flutter\_application\_6". The left sidebar displays the project structure under "EXPLORER", including files like main.dart, pagina1.dart, pagina2.dart, and pubspec.yaml. The right pane shows the content of the pubspec.yaml file:

```
version: 1.0.0
name: flutter_application_6
description: A new Flutter project.

# The following adds the Cupertino Icons font to your application.
# Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.8

dev_dependencies:
  flutter_test:
    sdk: flutter

# The "flutter_lints" package below contains a set of recommended lints to
# encourage good coding practices. The lint set provided by the package is
# activated in the 'analysis_options.yaml' file located at the root of your
# package. See that file for information about deactivating specific lint
# rules and activating additional ones.
flutter_lints: ^5.0.0

# For information on the generic Dart part of this file, see the
# following page: https://dart.dev/tools/pub/pubspec

# The following section is specific to Flutter packages.
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/
      - images/a_dot_ham.jpeg
```

Recordar que para poder insertar imágenes me voy a la clase pubspec.yaml y en la línea 61 y 62 y agregamos una carpeta assets en el proyecto como aparece en la imagen.

← Página 2

DEBUG

### usuario sofia

Nombre	4854
Edad	dmsb
Teléfono	CXVX
Correo	32655cvb

Ingresá solo letras

Ingresá solo numeros

Ingresá solo numeros y letras

Aceptar

Datos Incorrectos

Este es el diseño de la página 2 donde manda el usuario y validación de cada caja de texto.