

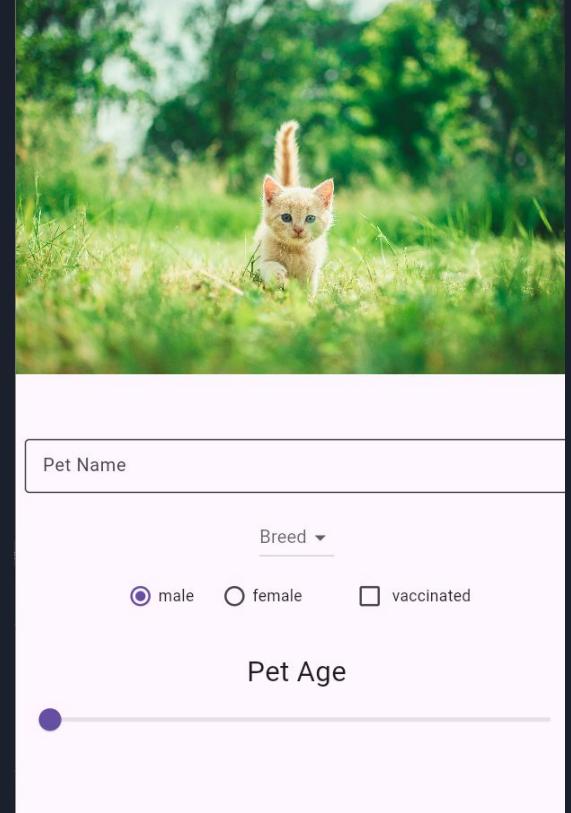


CHAPTER 2

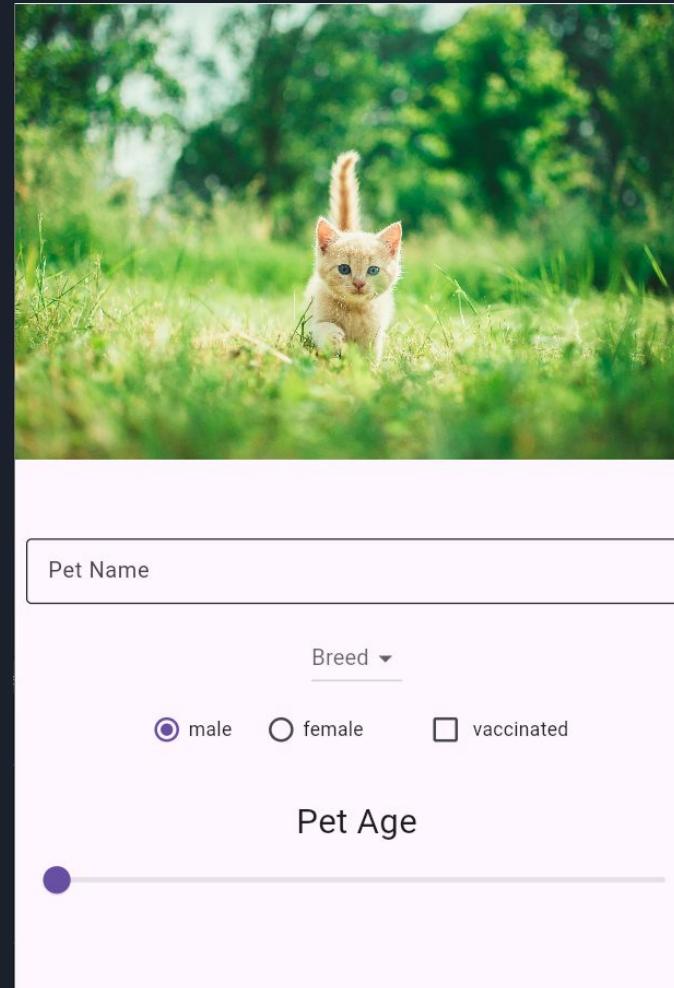
WORKSHOPS / EXERCISES

WORKSHOP 1

```
1 import 'package:flutter/material.dart';
2 class Newworkk extends StatefulWidget{
3   Newworkk({super.key});
4   @override
5   State<Newworkk> createState() => _Newwork();
6 }
7 class _Newwork extends State<Newworkk> {
8   int _selectedvalue = 1;
9   String? _selectedValue;
10 // List of items for the dropdown
11 final List<String> _dropdownItems = [
12   'Cat',
13   'Dog',
14   'Bird',
15   'Fish',
16 ];
17 bool _isChecked = false;
18 double _currentAge = 1;
19 @override
20 Widget build(BuildContext context){
21   return Scaffold(
22     body: Column(
23       children: [
24         Container(
25           child: Image.asset(
26             'assets/catpost.jpg',
27             fit: BoxFit.cover,
28           ), // Image.asset
29         ), // Container
30         const SizedBox(
31           height: 50,
32         ), // SizedBox
33         const Padding(
34           padding: EdgeInsets.all(8.0),
35           child: TextField(
36             decoration: InputDecoration(
37               border: OutlineInputBorder(),
38             ),
39             hintText: 'Pet Name',
40           ), // InputDecoration
41         ), // Padding
42         Padding(
43           padding: const EdgeInsets.all(8.0),
44           child: DropdownButton<String>(
45             value: _selectedValue,
46             hint: const Text("Breed"),
47             items: _dropdownItems.map((String value) {
48               return DropdownMenuItem<String>(
49                 value: value,
50                 child: Text(value),
51               ); // DropdownMenuItem
52             }).toList(),
53             onChanged: (String? newValue){
54               setState(() {
55                 _selectedValue= newValue;
56               });
57             },
58           ), // DropdownButton
59         ), // Padding
60         Row(
61           mainAxisAlignment: MainAxisAlignment.center,
62           children: [
63             Radio(value: 1,
64             groupValue: _selectedvalue,
65             onChanged: (int? value){
66               setState(() {
67                 _selectedvalue =value!;
68               });
69             },
70           ), // Radio
71         ],
72       ],
73     ),
74   );
75 }
```



```
71
72     Text('male'),
73     SizedBox(width: 20),
74     Radio(value: 2,groupValue: _selectedvalue,
75     onChanged: (int? value){
76         setState(() {
77             _selectedvalue=value!;
78         });
79     },
80     ), // Radio
81     Text('female'),
82     SizedBox(width: 40),
83     Checkbox(
84         value: _isChecked,
85         onChanged: (bool? value){
86             setState(() {
87                 _isChecked = value ?? false;
88             });
89         }, // Checkbox
90         Text('vaccinated'),
91     ], // Row
92     SizedBox(height: 30),
93     Text('Pet Age',style: TextStyle(fontsize: 25)),
94     Slider(
95         min: 0.0,
96         max: 100.0,
97         divisions: 100,
98         label: _currentAge.toStringAsFixed(0),
99         value: _currentAge,
100        onChanged: (double newvalue){
101            setState(() {
102                _currentAge = newvalue;
103            });
104        });
105    ); // Column
```



WORKSHOP 2

```
1 import 'package:flutter/material.dart';
2 class MyForm extends StatefulWidget {
3   const MyForm({super.key});
4   @override
5     _MyFormState createState() => _MyFormState();
6 }
7 class _MyFormState extends State<MyForm> {
8   String _selectedGender = 'male';
9   bool isChecked=false;
10  double _slider = 40.0;
11  String? _selectedValue;
12  List<String> _dropdownItems = [
13    'Cat',
14    'Dog',
15    'Bird',
16    'Fish',
17  ];
18  @override
19  Widget build(BuildContext context) {
20    return Scaffold(
21      appBar: AppBar(
22        backgroundColor: Colors.brown[300],
23        centerTitle: true,
24        title: const Text(
25          'Form',
26          style: TextStyle(color: Colors.white),
27        ), // Text
28      ), // AppBar
29      body: SingleChildScrollView(
30        padding: const EdgeInsets.all(16.0),
31        child: Column(
32          crossAxisAlignment: CrossAxisAlignment.start,
33          children: <Widget>[
34            const Text(
35              'Name',
36              style: TextStyle(fontSize: 18.0),
37            ), // Text
38            const TextField(
39              decoration: InputDecoration(
40                border: OutlineInputBorder(),
41                hintText: 'Enter your name',
42              ), // InputDecoration
43              const SizedBox(height: 20.0),
44              Text('Description', style: TextStyle(fontSize: 18.0)),
45            ),
46            const SizedBox(
47              width: 500,
48              height: 100.0,
49              child: TextField(
50                decoration: InputDecoration(
51                  border: OutlineInputBorder(),
52                  hintText: 'Enter description',
53                ), // InputDecoration
54                expands: true,
55                minLines: null,
56                maxLines: null,
57                textAlignVertical: TextAlignVertical.top,
58              ), // TextField
59            ), // SizedBox
60            const SizedBox(height: 20.0),
61            const Text(
62              'Select an option',
63              style: TextStyle(fontSize: 18.0),
64            ), // Text
65            Row(
66              children: [
67                DropdownButton<String>(
68                  value: _selectedValue,
69                  hint: const Text("Breed"),
70                  items: _dropdownItems.map((String value) {
71                    return DropdownMenuItem<String>(

```

Form

Name

Enter your name

Description

Enter description

Select an option

Breed ▾

Gender

Male Female

Age

verify



```

72         value: value,
73         child: Text(value),
74     ); // DropdownMenuItem
75 ).toList(),
76 onChanged: (String? newValue){
77     setState(() {
78         _selectedValue= newValue;
79     });
80 },
81 ), // DropdownButton
82 ],
83 ), // Row
84 const SizedBox(height: 20.0),
85 const Text(
86     'Gender',
87     style: TextStyle(fontSize: 18.0),
88 ), // Text
89 Row(
90     children: [
91         Radio(
92             value: 'male',
93             groupValue: _selectedGender,
94             onChanged: (String? value) {
95                 setState(() {
96                     _selectedGender=value!;
97                 });
98             },
99         ), // Radio
100        const Text('Male'),
101        SizedBox(width: 20),
102        Radio(value: 'female',
103             groupValue: _selectedGender,
104             onChanged: (String? value){
```

```

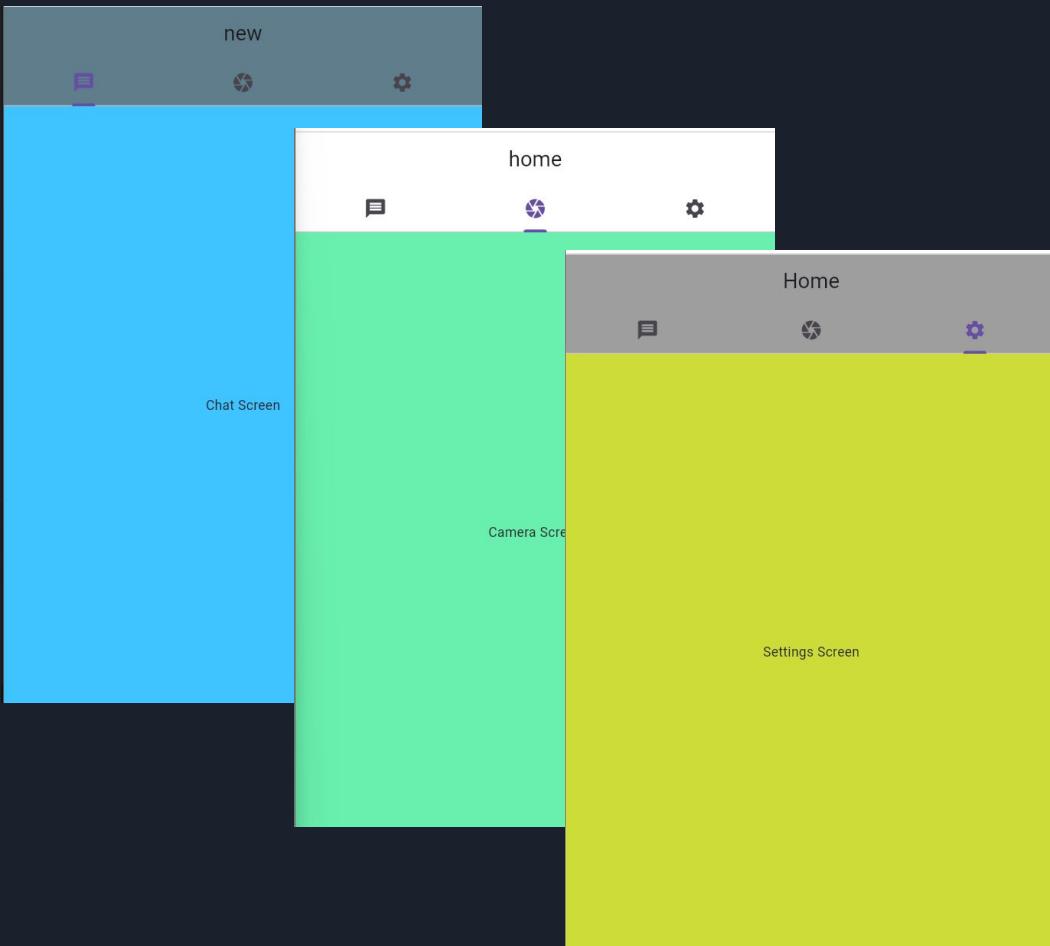
105         setState(() {
106             _selectedGender= value!;
107         });
108     }, // Radio
109     const Text('Female'),
110     ],
111 ), // Row
112 const SizedBox(height: 20.0),
113 const Text(
114     'Age',
115     style: TextStyle(fontSize: 18.0),
116 ), // Text
117 Slider(
118     value: _Slider,
119     min: 0.0,
120     max: 100.0,
121     divisions: 100,
122     label: _Slider.toStringAsFixed(0),
123     onChanged: (double neewvalue) {
124         setState(() {
125             _slider=neewvalue;
126         });
127     },
128 ), // slider
129 const SizedBox(height: 20.0),
130 Row(
131     children: [
132         Checkbox(
133             value: ischecked,
134             onChanged: (bool? valuee) {
135                 setState(() {
136                     ischecked =valuee ?? false;
137                 });
138             },
139         ), // Checkbox
```

```

140         const Text('verify'),
141     ],
142 ), // Row
143 const SizedBox(height: 20.0),
144 Container(
145     child: Image.asset(
146         'assets/catpost.jpg',
147         fit: BoxFit.cover,
148     ), // Image.asset
149 ), // Container
150 const SizedBox(height: 20.0),
151 const Text(
152     'This is some text with custom font',
153     style: TextStyle(
154         fontSize: 18.0,
155         fontFamily: 'Roboto',
156     ), // TextStyle
157 ), // Text
158 ], // <Widget>[]
159 ), // Column
160 ), // SingleChildScrollView
161 ); // scaffold
162 }
163 }
```



EXERCISE 1

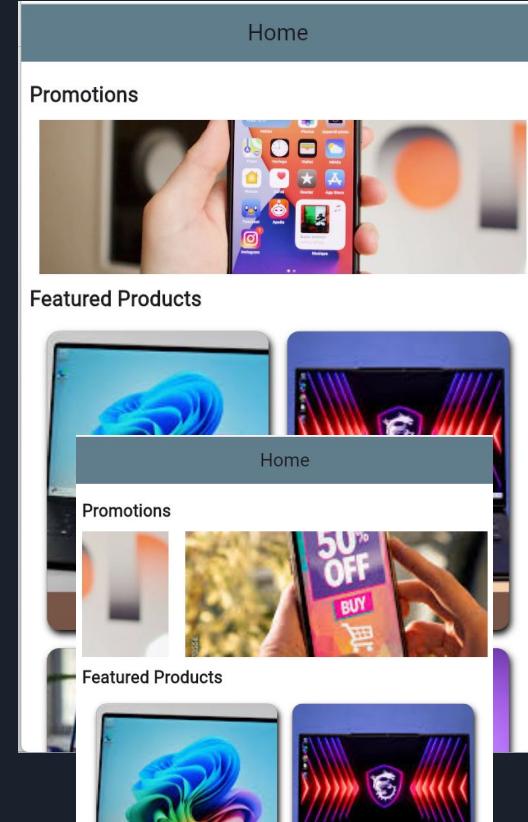


```
1 import 'package:flutter/material.dart';
2 class Exercisess extends StatelessWidget{
3   Exercisess({super.key});
4   @override
5   Widget build(BuildContext context) {
6     return DefaultTabController(length: 1, child:
7       Scaffold(
8         backgroundColor: Colors.lightBlueAccent,
9         appBar: AppBar(
10          title: Text('new'),
11          backgroundColor: Colors.blueGrey,
12          centerTitle: true,
13          bottom: TabBar(tabs:
14            [
15              Tab(icon: Icon(Icons.message),),
16              Tab(icon: Icon(Icons.camera_sharp),),
17              Tab(icon: Icon(Icons.settings),),
18            ],
19          ), // TabBar
20        ), // AppBar
21        body: Center(
22          child: Text('Chat Screen'),
23        ), // Center
24      ), // Scaffold
25    ); // DefaultTabController
26  }
27 }
```

EXERCISE 2

```
1 import 'package:flutter/material.dart';
2 class Productt extends StatelessWidget{
3   Productt({super.key});
4   final List<String> productImages = [
5     'assets/lap1.jpg',
6     'assets/lap5.jpg',
7     'assets/lap3.jpg',
8     'assets/lap4.jpg',
9   ];
10  @override
11  Widget build(BuildContext context) {
12    return Scaffold(
13      backgroundColor: Colors.white,
14      appBar: AppBar(
15        title: Text('Home'),
16        centerTitle: true,
17        backgroundColor: colors.blueGrey,
18      ), // AppBar
19      body:
20        SingleChildScrollView(
21          padding: EdgeInsets.all(8),
22          child: Column(
23            crossAxisAlignment: CrossAxisAlignment.start,
24            children: [
25              Padding(padding: EdgeInsetsGeometry.all(5)),
26              const Text('Promotions',style: TextStyle(fontsize: 20,
27                fontWeight: FontWeight.bold,),), // Texts
28              SingleChildScrollView(
29                scrollDirection: Axis.horizontal,
30                child: Row(
31                  children: [
32                    Container(
33                      width: 500,
34                      height: 150,
35                      margin: EdgeInsets.all(10),
36                      decoration: BoxDecoration(
37                        image: DecorationImage(
```

38 image: AssetImage('assets/mob.png'),
39 fit: BoxFit.cover,
40), // DecorationImage
41), // BoxDecoration
42), // Container
43 Container(
44 width: 500,
45 height: 150,
46 margin: EdgeInsets.all(10),
47 decoration: BoxDecoration(
48 image: DecorationImage(
49 image: AssetImage('assets/mobe.jpg'),
50 fit: BoxFit.cover
51), // DecorationImage
52), // BoxDecoration
53), // Container
54 Container(
55 width: 500,
56 height: 150,
57 margin: EdgeInsets.all(10),
58 decoration: BoxDecoration(
59 image: DecorationImage(
60 image: AssetImage('assets/mob.png'),
61 fit: BoxFit.cover,
62), // DecorationImage
63), // BoxDecoration
64), // Container
65],
66), // Row
67), // SingleChildScrollView
68 const Text('Featured Products',style: TextStyle(
69 fontsize: 20,fontWeight: FontWeight.bold,),) // T



```

70    GridView.builder(
71      padding: EdgeInsets.all(12),
72      shrinkWrap: true,
73      physics: NeverScrollableScrollPhysics(),
74      gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
75        crossAxisCount: 2,
76        crossAxisSpacing: 8.0,
77        mainAxisSpacing: 8.0,
78        childAspectRatio: 3 / 4,
79      ), // SliverGridDelegateWithFixedCrossAxisCount
80      itemCount: 4,
81      itemBuilder: (context, index){
82        return Container(
83          margin: EdgeInsets.all(5),
84          decoration: BoxDecoration(
85            color: Colors.brown,
86            borderRadius: BorderRadius.circular(12),
87            boxShadow: [
88              BoxShadow(
89                color: Colors.black,
90                blurRadius: 5,
91                offset: const Offset(2, 4),
92              ), // BoxShadow
93            ],
94          ), // BoxDecoration
95          child: Column(
96            mainAxisAlignment: MainAxisAlignment.center,
97            children: [
98              Expanded(
99                child: ClipRRect(
100                  borderRadius: BorderRadius.vertical(
101                    top: Radius.circular(12),
102                  ), // BorderRadius.vertical
103                ), // ClipRRect
104                ), // Expanded
105                ), // Column
106                ), // SingleChildScrollView
107                ); // Scaffold
108            }, // Container
109            ), // Column
110            ), // Container
111            ), // Column
112            ), // Container
113            ), // Column
114            ), // Container
115            ), // Column
116            ), // Container
117            ), // Column
118            ), // Container
119            ), // Column
120            ), // Container
121            ), // Column
122            ), // Container
123            ), // Column
124            ), // Column
125            ), // Column
126            ), // Column
127            ), // Column
128            ), // Column
129            ), // Column
130        }

```

