



Resource Software Solution

Flutter

Training Assignments

Forms

Overview

What you'll learn

- Build a form with validation.
- Create and style a text field.
- Retrieve the value of a text field.

Tasks

1. Prepare

```
class Intro extends StatelessWidget {  
  const Intro({super.key});  
  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      home: buildHomePage(),  
    );  
  }  
  
  Widget buildHomePage() {  
    return Scaffold(  
      appBar: AppBar(title: const Text('Introduction Forms')),  
      body: const MyCustomForm(),  
    ); // Scaffold  
  }  
}  
  
class MyCustomForm extends StatefulWidget {  
  const MyCustomForm({Key? key}) : super(key: key);  
  
  @override  
  State<MyCustomForm> createState() => _MyCustomFormState();  
}  
  
class _MyCustomFormState extends State<MyCustomForm> {  
  @override  
  Widget build(BuildContext context) {  
    return Container();  
  }  
}
```

2. Build a form with validation

+ Update `_MyCustomFormState` class follow code

```

class _MyCustomFormState extends State<MyCustomForm> {
  final _formKey = GlobalKey<FormState>();

  @override
  Widget build(BuildContext context) {
    return Form(
      key: _formKey,
      child: Column(
        children: [
          TextFormField(
            validator: (value) {
              if (value == null || value.isEmpty) {
                return 'Please enter some text';
              }
              return null;
            },
          ), // TextFormField
          ElevatedButton(
            onPressed: () {
              if (_formKey.currentState!.validate()) {
                ScaffoldMessenger.of(context).showSnackBar(const SnackBar(
                  content: Text('Processing Data'),
                )); // SnackBar
              }
            },
            child: const Text('Submit')) // ElevatedButton
          ],
        ), // Column
      ); // Form
    }
  }
}

```

3. Create and style a text field

+ Update TextFormField widget

```

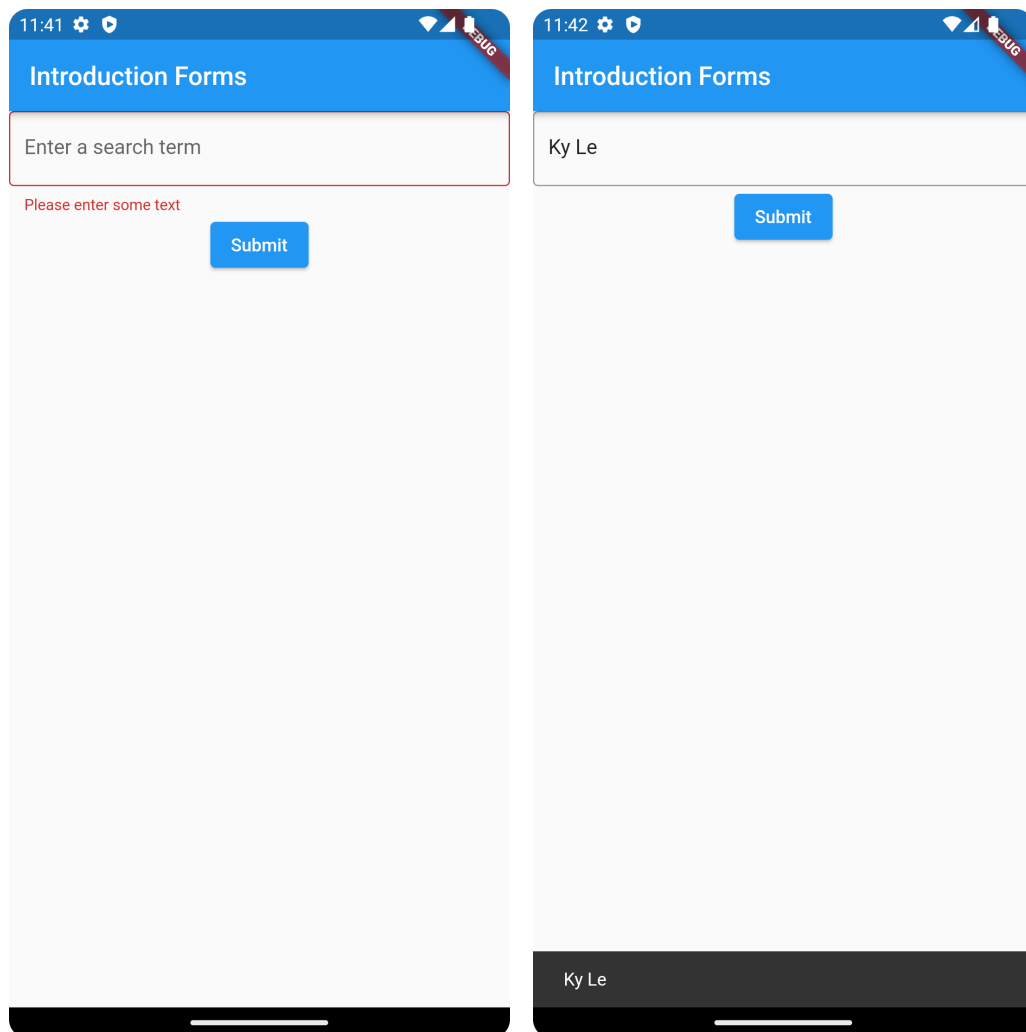
— TextFormField(
  decoration: const InputDecoration(
    border: OutlineInputBorder(),
    hintText: 'Enter a search term',
  ), // InputDecoration
  validator: (value) {
    if (value == null || value.isEmpty) {
      return 'Please enter some text';
    }
    return null;
  },
), // TextFormField

```

4. Retrieve the value of a text field

```
class _MyCustomFormState extends State<MyCustomForm> {  
  final _formKey = GlobalKey<FormState>();  
  final searchTerm = TextEditingController();  
  
  @override  
  void dispose() {  
    super.dispose();  
    // Clean up the controller when the widget is disposed.  
    searchTerm.dispose();  
  }  
  
  @override  
  Widget build(BuildContext context) {  
    return Form(  
      key: _formKey,  
      child: Column(  
        children: [  
          TextFormField(  
            controller: searchTerm,  
            decoration: const InputDecoration(  
              border: OutlineInputBorder(),  
              hintText: 'Enter a search term',  
            ), // InputDecoration  
            validator: (value) {  
              if (value == null || value.isEmpty) {  
                return 'Please enter some text';  
              }  
              return null;  
            },  
          ), // TextFormField  
          ElevatedButton(  
            onPressed: () {  
              if (_formKey.currentState!.validate()) {  
                ScaffoldMessenger.of(context).showSnackBar(SnackBar(  
                  content: Text(searchTerm.text),  
                ));  
              }  
            },  
          ),  
        ],  
      ),  
    );  
  }  
}
```

5. Run the app



6. Add **Checkbox** into form

```
- CheckboxListTile(  
  title: const Text('Asc'),  
  secondary: const Icon(Icons.onetwothree_rounded),  
  value: false,  
  onChanged: (value) {  
    setState(() {  
  
    });  
  }  
) , // CheckboxListTile
```

7. Add **Radio button** into form

```
enum OrderCharacter {ascending, descending}

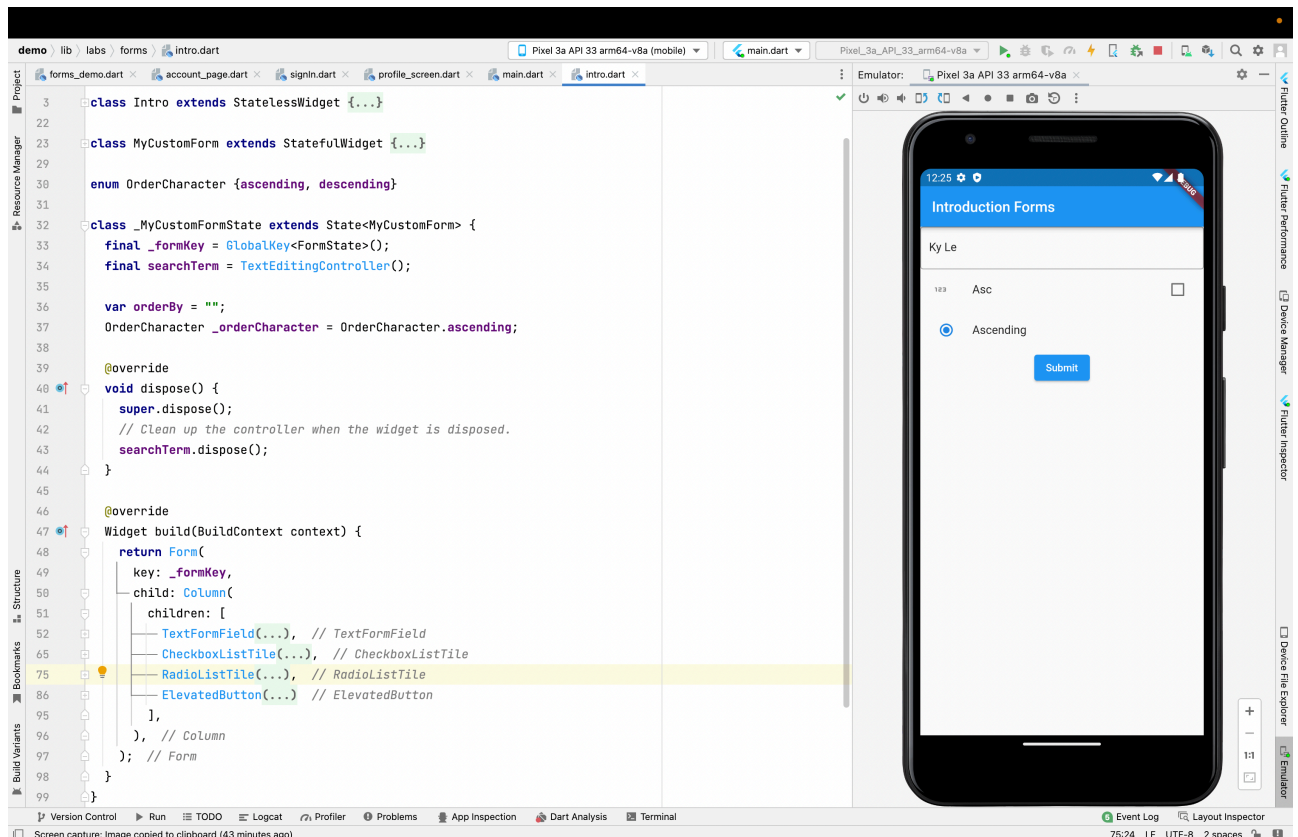
class _MyCustomFormState extends State<MyCustomForm> {
  final _formKey = GlobalKey<FormState>();
  final searchTerm = TextEditingController();

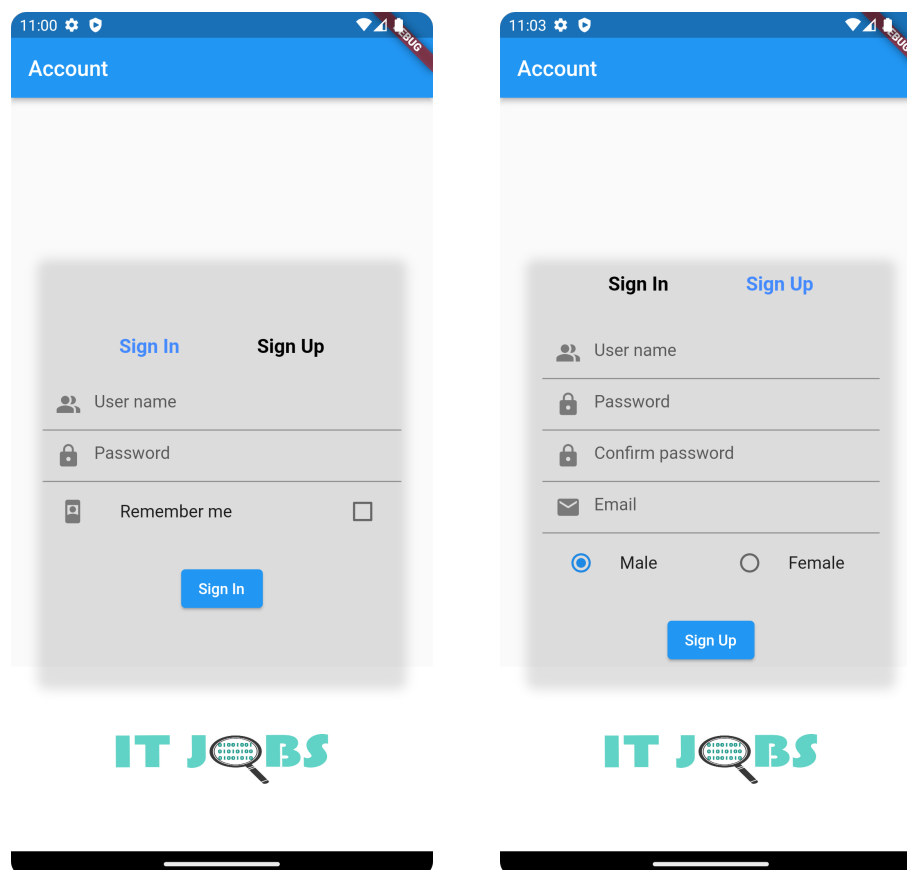
  var orderBy = "";
  OrderCharacter _orderCharacter = OrderCharacter.ascending;

  @override
  void dispose() {
    super.dispose();
    // Clean up the controller when the widget is disposed.
    searchTerm.dispose();
  }

  @override
  Widget build(BuildContext context) {
    return Form(
      key: _formKey,
      child: Column(
        children: [
          TextFormField(...), // TextFormField
          CheckboxListTile(...), // CheckboxListTile
          RadioListTile(
            title: const Text('Ascending'),
            value: OrderCharacter.ascending,
            groupValue: _orderCharacter,
            onChanged: (OrderCharacter? value) {
              setState(() {
                _orderCharacter = value!;
                orderBy = OrderCharacter.ascending.name;
              });
            },
          ), // RadioListTile
        ],
      ),
    );
  }
}
```

Final code





Tips:

- Using Stack class: <https://api.flutter.dev/flutter/widgets/Stack-class.html>
- Using GestureDetector class
- Using Container class

```
child: Container(  
  width: size.width * 0.85,  
  height: size.height * 0.5,  
  decoration: BoxDecoration(  
    borderRadius: BorderRadius.circular(10),  
    boxShadow: const [  
      BoxShadow(color: Colors.black12, blurRadius: 8, spreadRadius: 5)  
    ]), // BoxDecoration
```

--THE END--