

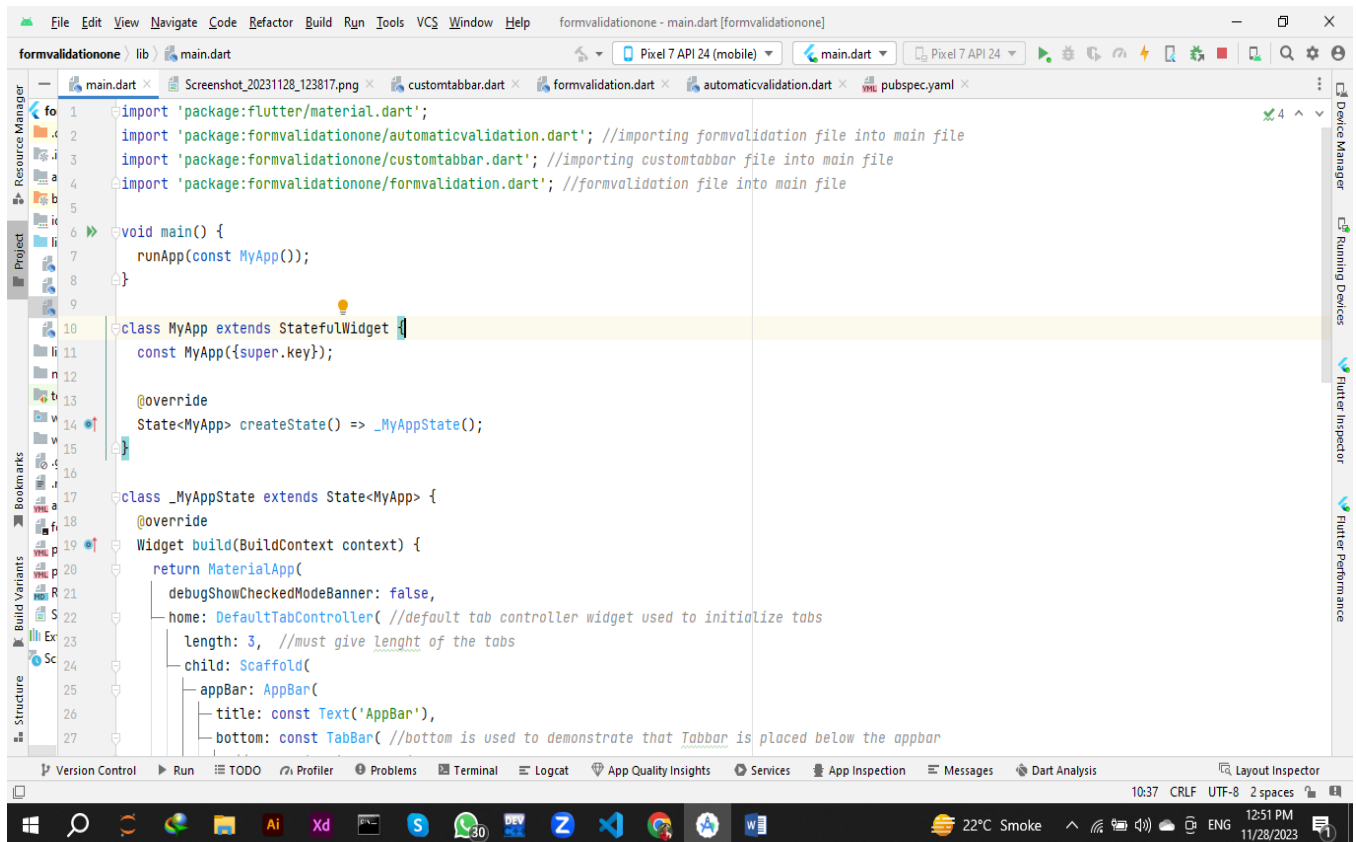
# LAB Manual week#5

## Tasks:

1. TabBar
2. Drawer
3. FormValidation
4. Automatic Form Validation

## Code of the main file:

In the main file we declare the different files in which worked later and declared the default appdrawer and defaulttabbar.

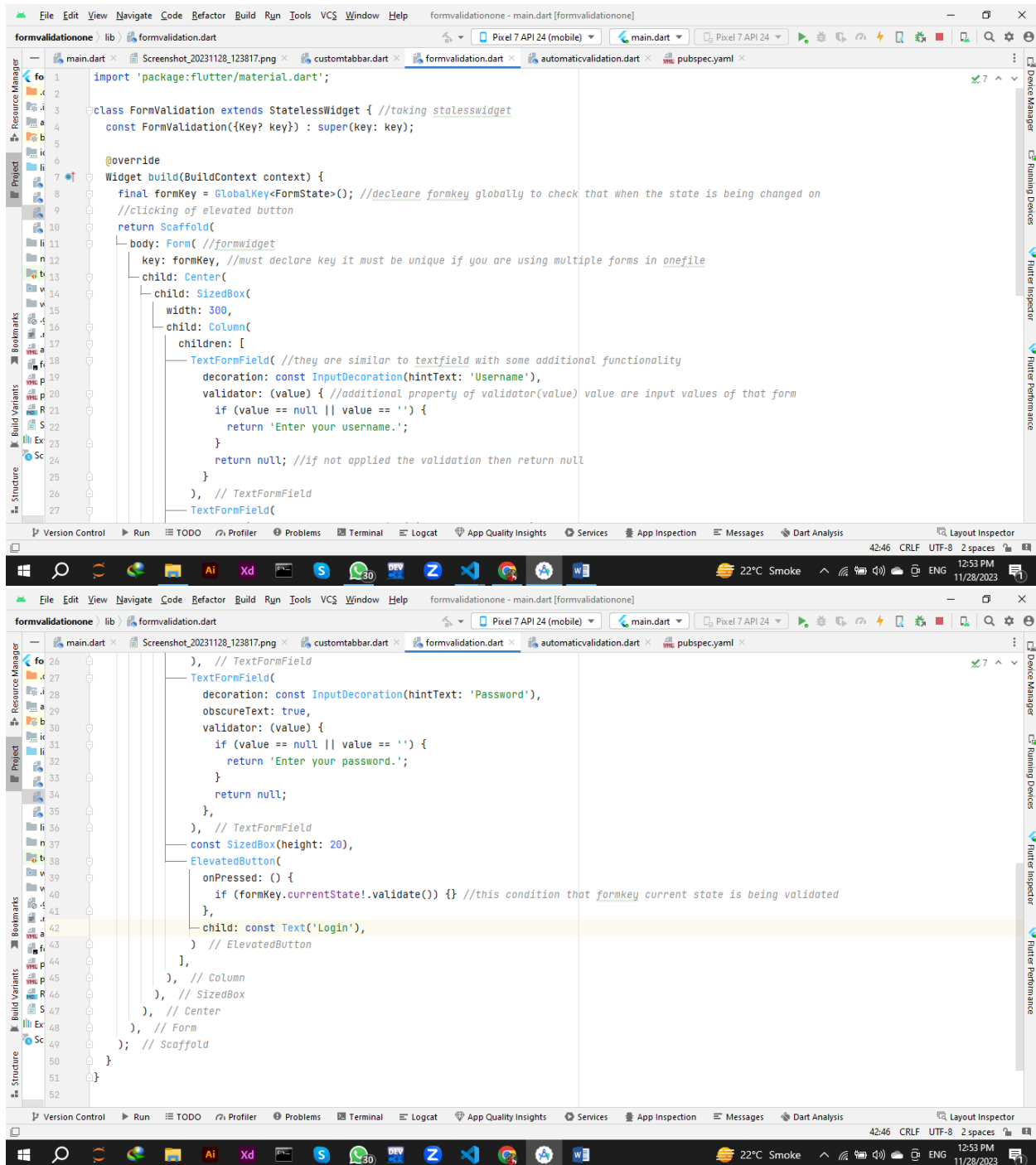


```
1 import 'package:flutter/material.dart';
2 import 'package:formvalidationone/automaticvalidation.dart'; //importing formvalidation file into main file
3 import 'package:formvalidationone/customtabbar.dart'; //importing customtabbar file into main file
4 import 'package:formvalidationone/formvalidation.dart'; //formvalidation file into main file
5
6 void main() {
7   runApp(const MyApp());
8 }
9
10 class MyApp extends StatefulWidget {
11   const MyApp({super.key});
12
13   @override
14   State<MyApp> createState() => _MyAppState();
15 }
16
17 class _MyAppState extends State<MyApp> {
18   @override
19   Widget build(BuildContext context) {
20     return MaterialApp(
21       debugShowCheckedModeBanner: false,
22       home: DefaultTabController( //default tab controller widget used to initialize tabs
23         length: 3, //must give lenght of the tabs
24         child: Scaffold(
25           appBar: AppBar(
26             title: const Text('AppBar'),
27             bottom: const TabBar( //bottom is used to demonstrate that Tabbar is placed below the appBar
```

```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help formvalidationone - main.dart [formvalidationone]
formvalidationone lib main.dart Pixel 7 API 24 (mobile) main.dart Pixel 7 API 24
@override
Widget build(BuildContext context) {
  return MaterialApp(
    debugShowCheckedModeBanner: false,
    home: DefaultTabController( //default tab controller widget used to initialize tabs
      length: 3, //must give lenght of the tabs
      child: Scaffold(
        appBar: AppBar(
          title: const Text('AppBar'),
          bottom: const TabBar( //bottom is used to demonstrate that Tabbar is placed below the appBar
            //tabbar is widget to include that how many tabs are used
            tabs: [
              Tab( //give tabs
                text: "FirstTab",
              ), // Tab
              Tab(text: "secondtab"),
              Tab(text: 'Thirdtab'),
            ],
          ), // TabBar
        ), // AppBar
        drawer: const Drawer( //drawer is directly given on the left side of the appBar
          child: Center(
            child: Text(
              "am in drawer",
              style: TextStyle(
                fontSize: 30,
              ), // TextStyle
            ), // Text
          ), // Center
        ), // Drawer
      ), // Scaffold
    ), // DefaultTabController
  ); // MaterialApp
}
```

```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help formvalidationone - main.dart [formvalidationone]
formvalidationone lib main.dart Pixel 7 API 24 (mobile) main.dart Pixel 7 API 24
"am in drawer",
style: TextStyle(
  fontSize: 30,
), // TextStyle
), // Text
), // Center
), // Drawer
body: const TabBarView( //giving view of the
  children: [
    FormValidation(), //call class of formvalidation in main file
    AutomaticValidation(), //call class of automaticvalidation in main file
    Center(
      child: CustomTabBar(), //call class of customTabs in main file
    ) // Center
  ],
), // TabBarView
), // Scaffold
), // DefaultTabController
); // MaterialApp
}
```

## Formvalidation file:

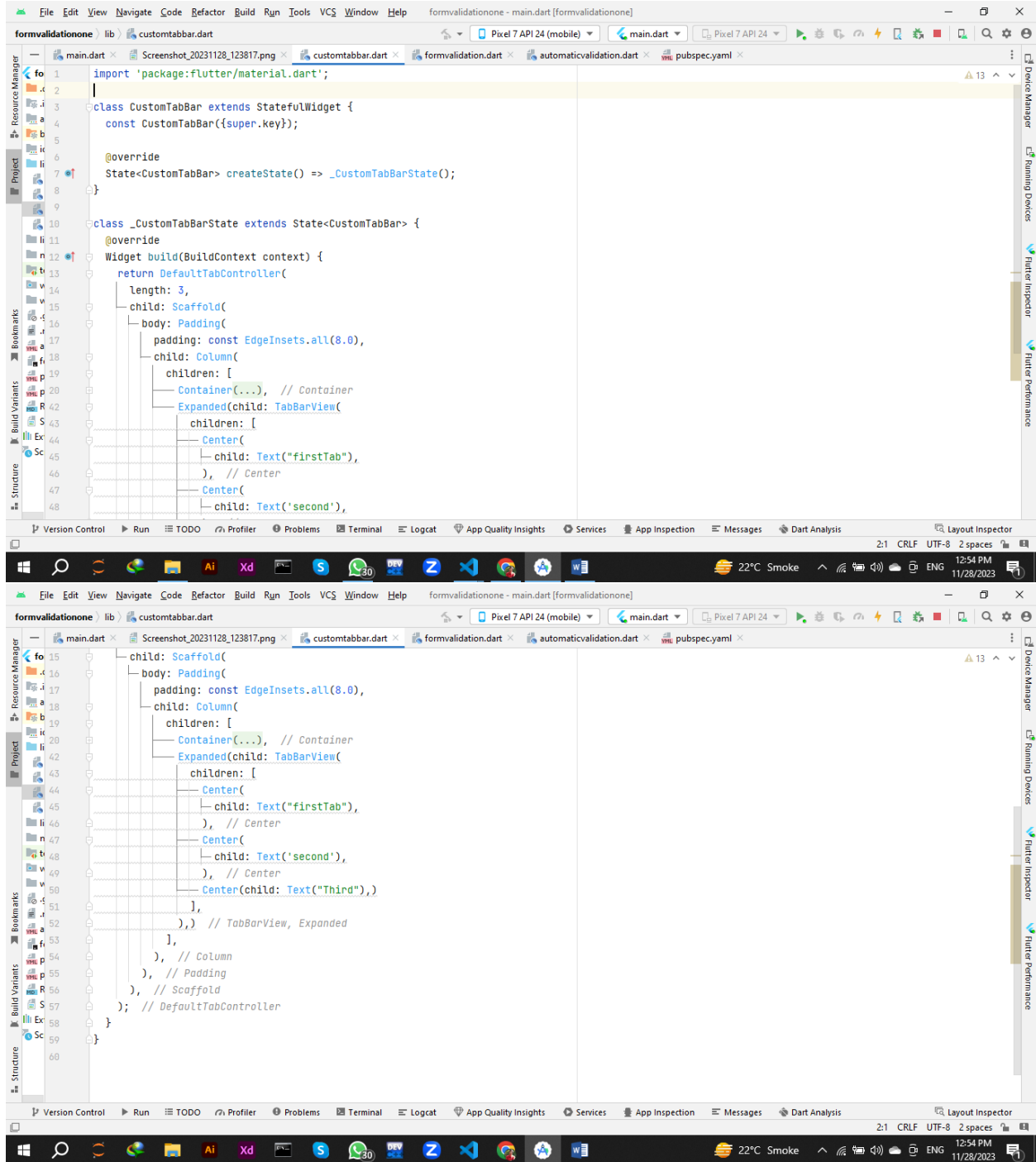


```
import 'package:flutter/material.dart';

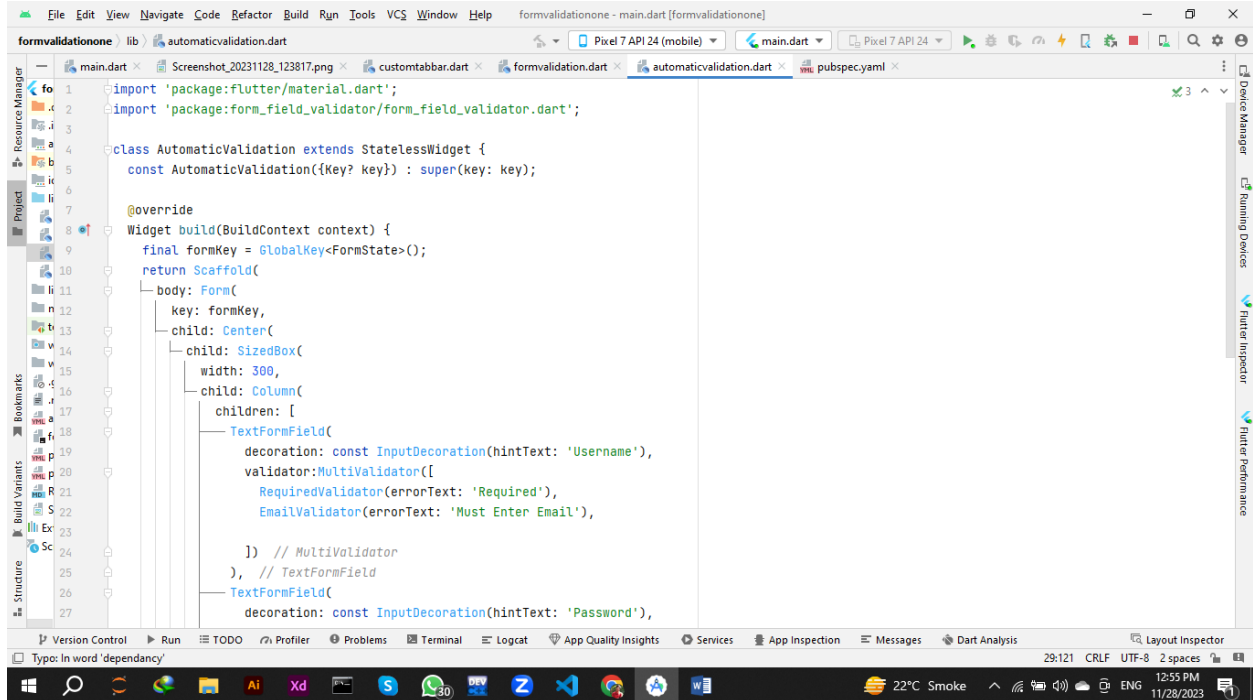
class FormValidation extends StatelessWidget { //taking statelesswidget
  const FormValidation({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    final formKey = GlobalKey<FormState>(); //declare formkey globally to check that when the state is being changed on
    //clicking of elevated button
    return Scaffold(
      body: Form( //formwidget
        key: formKey, //must declare key it must be unique if you are using multiple forms in onefile
        child: Center(
          child: SizedBox(
            width: 300,
            child: Column(
              children: [
                TextFormField( //they are similar to textfield with some additional functionality
                  decoration: const InputDecoration(hintText: 'Username'),
                  validator: (value) { //additional property of validator(value) value are input values of that form
                    if (value == null || value == '') {
                      return 'Enter your username.';
                    }
                    return null; //if not applied the validation then return null
                  }, // TextFormField
                TextFormField(
                  decoration: const InputDecoration(hintText: 'Password'),
                  obscureText: true,
                  validator: (value) {
                    if (value == null || value == '') {
                      return 'Enter your password.';
                    }
                    return null;
                  }, // TextFormField
                const SizedBox(height: 20),
                ElevatedButton(
                  onPressed: () {
                    if (formKey.currentState!.validate()) {} //this condition that formkey current state is being validated
                  },
                  child: const Text('Login'),
                ) // ElevatedButton
              ], // Column
            ), // SizedBox
          ), // Center
        ), // Form
      ), // Scaffold
    );
  }
}
```

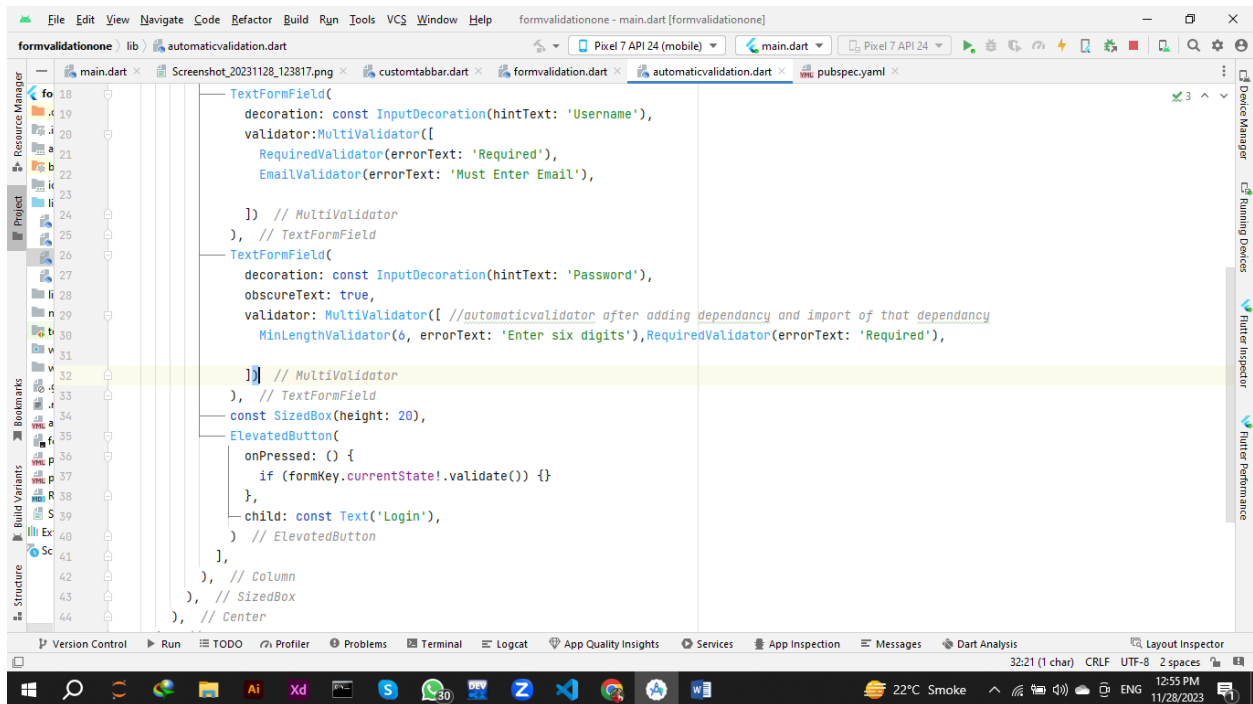
## customTabfile:



# AutomaticValidationForm:



```
1 import 'package:flutter/material.dart';
2 import 'package:form_field_validator/form_field_validator.dart';
3
4 class AutomaticValidation extends StatelessWidget {
5   const AutomaticValidation({Key? key}) : super(key: key);
6
7   @override
8   Widget build(BuildContext context) {
9     final formKey = GlobalKey<FormState>();
10    return Scaffold(
11      body: Form(
12        key: formKey,
13        child: Center(
14          child: SizedBox(
15            width: 300,
16            child: Column(
17              children: [
18                TextFormField(
19                  decoration: const InputDecoration(hintText: 'Username'),
20                  validator: MultiValidator([
21                    RequiredValidator(errorText: 'Required'),
22                    EmailValidator(errorText: 'Must Enter Email'),
23                  ]) // MultiValidator
24                ), // TextFormField
25                TextFormField(
26                  decoration: const InputDecoration(hintText: 'Password'),
```



```
18 TextFormField(
19   decoration: const InputDecoration(hintText: 'Username'),
20   validator: MultiValidator([
21     RequiredValidator(errorText: 'Required'),
22     EmailValidator(errorText: 'Must Enter Email'),
23   ]) // MultiValidator
24 ), // TextFormField
25
26 TextFormField(
27   decoration: const InputDecoration(hintText: 'Password'),
28   obscureText: true,
29   validator: MultiValidator([ //automaticvalidator after adding dependency and import of that dependency
30     MinLengthValidator(6, errorText: 'Enter six digits'), RequiredValidator(errorText: 'Required'),
31   ]) // MultiValidator
32 ), // TextFormField
33
34 const SizedBox(height: 20),
35 ElevatedButton(
36   onPressed: () {
37     if (formKey.currentState!.validate()) {}
38   },
39   child: const Text('Login'),
40 ) // ElevatedButton
41 ],
42 ), // Column
43 ), // SizedBox
44 ), // Center
```



Output of the different file:

