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### **Department of Information Technology**

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Semester: VI **Student ID: 22104186** 

Class / Branch / Div: TE- IT B Roll No. 17

**Subject: MAD & PWA Lab** Date of Submission: 03/03/257

Name of Instructor: Prof. Manjusha Kashilkar

### **Experiment No.: 4**

**Aim:** To Design an interactive Form using various form widgets.

**Prerequisites:** Android studio, flutter SDK.

**Problem Statement:** To develop a flutter Form for creating form using widgets of flutter.

**Software:** Android studio, flutter SDK.

Code:

import 'package:flutter/material.dart';

void main() => runApp(const MyApp());

class MyApp extends StatelessWidget {

const MyApp({super.key});

@override

Widget build(BuildContext context) {

const appTitle = 'APSIT';

return MaterialApp(

title: appTitle,

home: Scaffold(

appBar: AppBar(

title: const Text(

appTitle,

style: TextStyle(fontWeight: FontWeight.bold, color: Colors.white),

),



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```
backgroundColor: Colors.blueAccent,
),
body: const MyCustomForm(),
),
);
}
}
// Create a Form widget.
class MyCustomForm extends StatefulWidget {
const MyCustomForm({super.key});
@override
MyCustomFormState createState() {
return MyCustomFormState();
}
}
class MyCustomFormState extends State<MyCustomForm> {
final _formKey = GlobalKey<FormState>();
@override
Widget build(BuildContext context) {
// Build a Form widget using the _formKey created above.
return Form(
key: _formKey,
child: Column(
crossAxisAlignment: CrossAxisAlignment.start,
children: [
Padding(
```



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```
padding: const EdgeInsets.all(8.0),
child: TextFormField(
decoration: InputDecoration(
labelText: "Name",
hintText: "Enter your name",
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10.0)),
),
// The validator receives the text that the user has entered.
validator: (value) {
if (value == null || value.isEmpty) {
return 'Enter your Name: ';
}
return null;
},
),
),
Padding(
padding: const EdgeInsets.all(8.0),
child: TextFormField(
decoration: InputDecoration(
labelText: "Mobile Number",
hintText: "Enter your Mobile Number",
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10.0)),
),
validator: (value) {
if (value == null || value.isEmpty) {
return 'Enter your Mobile Number: ';
}
```



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```
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```

```
if (value.length != 10) {
return "Please Enter Correct Digits";
}
return null;
},
),
),
Padding(
padding: const EdgeInsets.all(8.0),
child: TextFormField(
obscureText: true,
decoration: InputDecoration(
labelText: "Password",
hintText: "Enter your password",
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10.0)),
),
validator: (value) {
if (value == null || value.isEmpty) {
return 'Enter your Password ';
}
return null;
},
),
),
Padding(
padding: const EdgeInsets.all(8.0),
child: TextFormField(
```



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```
decoration: InputDecoration(
labelText: "Pincode",
hintText: "Enter your Pincode",
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10.0)),
),
validator: (value) {
if (value == null || value.isEmpty) {
return 'Enter your Pincode ';
}
if (value.length != 6) {
return 'Enter a 6 digit pincode';
}
return null;
},
),
),
Padding(
padding: const EdgeInsets.all(8.0),
child: TextFormField(
decoration: InputDecoration(
labelText: "Moodle ID",
hintText: "Enter your Moodle ID",
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10.0)),
),
validator: (value) {
if (value == null || value.isEmpty) {
return 'Enter your Moodle ID ';
```



```
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```

```
if (value.length != 8) {
return 'Enter a 8 digit Moodle ID';
}
return null;
},
),
),
Center(
child: Padding(
padding: const EdgeInsets.symmetric(vertical: 16.0),
child: ElevatedButton(
style: ElevatedButton.styleFrom(
backgroundColor: Colors.lime,
),
onPressed: () {
// Validate returns true if the form is valid, or false otherwise.
if (_formKey.currentState!.validate()) {
ScaffoldMessenger.of(context).showSnackBar(
const SnackBar(content: Text('Login Successful')),
);
}
},
child: const Text('Submit',
style:
TextStyle(fontWeight: FontWeight.bold, fontSize: 16)),
),
),
)
```



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],		
),		
);		
}		
J.		

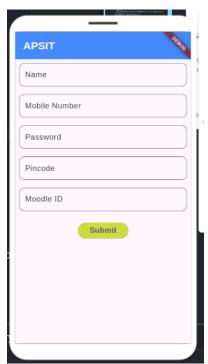


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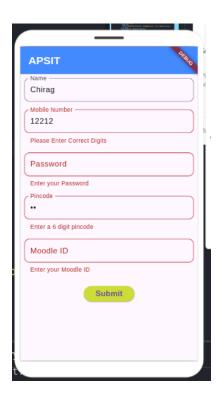
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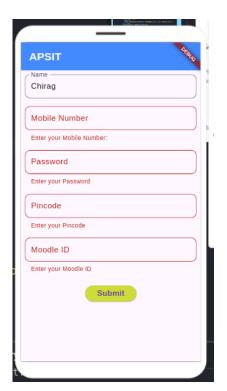
### **Output:**



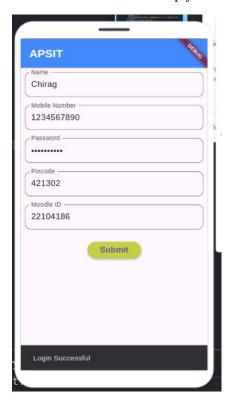
User Interface



number of digits validation



Validation of empty fields



login successfull



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**Conclusion:** In this experiment, we successfully designed an interactive form in Flutter using various form widgets and implemented form validation. By utilizing TextFormField with the validator function, we ensured that user inputs were properly validated for required fields and correct formats, thereby enhancing the user experience and ensuring data accuracy.