

# A. P. SHAH INSTITUTE OF TECHNOLOGY



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### **Department of Information Technology**

Academic Year: 2024-25 Name of Student: Vijay madiwal

Semester: VI Student ID: 23204010

Class / Branch / Div: TE- IT C Roll No. 13

Subject: MAD & PWA Lab Date of Submission: 03/03/25

Name of Instructor: Prof Sujata Oak

### **Experiment No.4**

**<u>Aim</u>**: To Design an interactive Form using various form widgets.

```
Code:
```

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

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

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
    return MaterialApp(
        home: Scaffold(
            appBar: AppBar(title: Text("Student Registration Form")),
            body: StudentRegistrationForm(),
        ),
        );
    }
}
```

class StudentRegistrationForm extends StatefulWidget {



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```
@override
 _StudentRegistrationFormState createState() => _StudentRegistrationFormState();
}
class _StudentRegistrationFormState extends State<StudentRegistrationForm> {
 final _formKey = GlobalKey<FormState>();
 String? name;
 String? email;
 String? gender;
 String? course;
 String? password;
 // List of available courses
 final List<String> courses = ["Python", "Java", "C++", "HTML", "Bootstrap"];
 @override
 Widget build(BuildContext context) {
  return Form(
   key: _formKey,
   child: Padding(
    padding: const EdgeInsets.all(16.0),
    child: Column(
      children: [
       // Name field
       TextFormField(
        decoration: InputDecoration(labelText: 'Name'),
        validator: (value) {
         if (value == null || value.isEmpty) {
```



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```
return 'Please enter your name';
  }
  return null;
 },
 onChanged: (value) {
  name = value;
 },
),
// Email field
TextFormField(
 decoration: InputDecoration(labelText: 'Email'),
 validator: (value) {
  if (value == null || value.isEmpty) {
   return 'Please enter your email';
  } else if (!RegExp(r'\S+@\S+\.\S+').hasMatch(value)) {
    return 'Please enter a valid email';
  }
  return null;
 },
 onChanged: (value) {
  email = value;
 },
),
// Gender field using radio buttons
Row(
 children: [
  Text("Gender: "),
  Radio<String>(
```



),

#### PARSHVANATH CHARITABLE TRUST'S

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```
value: "Male",
   groupValue: gender,
   onChanged: (String? value) {
    setState(() {
     gender = value;
    });
   },
  ),
  Text("Male"),
  Radio<String>(
   value: "Female",
   groupValue: gender,
   onChanged: (String? value) {
    setState(() {
     gender = value;
    });
   },
  ),
  Text("Female"),
 ],
// Course dropdown
DropdownButtonFormField<String>(
 decoration: InputDecoration(labelText: 'Select Course'),
 value: course,
 items: courses.map((String course) {
  return DropdownMenuItem<String>(
   value: course,
```



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```
child: Text(course),
  );
 }).toList(),
 onChanged: (String? value) {
  setState(() {
    course = value;
  });
 },
 validator: (value) {
  if (value == null || value.isEmpty) {
   return 'Please select a course';
  }
  return null;
 },
),
// Password field
TextFormField(
 decoration: InputDecoration(labelText: 'Password'),
 obscureText: true,
 validator: (value) {
  if (value == null || value.isEmpty) {
    return 'Please enter your password';
  }
  return null;
 },
 onChanged: (value) {
  password = value;
 },
```



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```
),
       SizedBox(height: 20),
       // Submit button
       ElevatedButton(
        onPressed: () {
         if (_formKey.currentState!.validate()) {
           ScaffoldMessenger.of(context).showSnackBar(
            SnackBar(content: Text('Student Registered Successfully')),
           );
          }
        },
        child: Text('Register'),
       ),
      ],
     ),
   ),
  );
 }
}
```

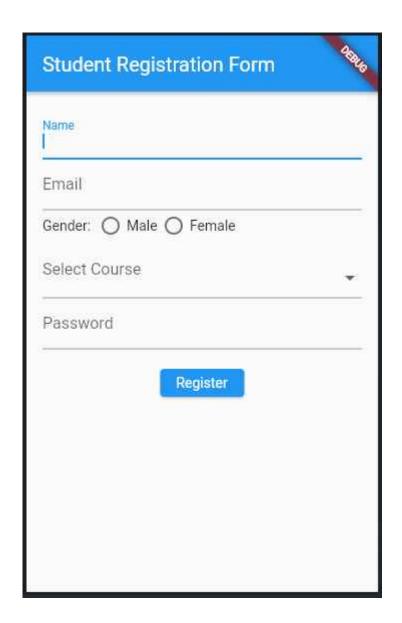


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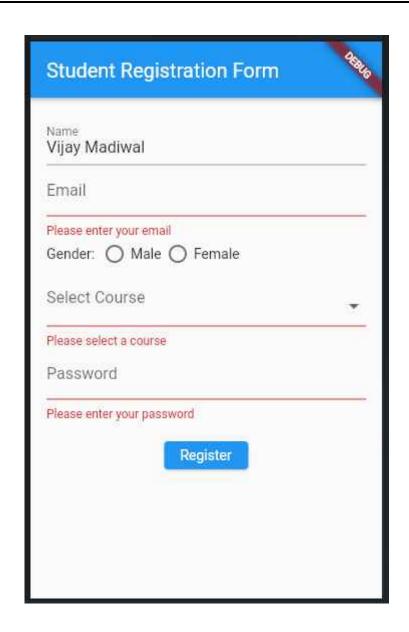
### **Output:**





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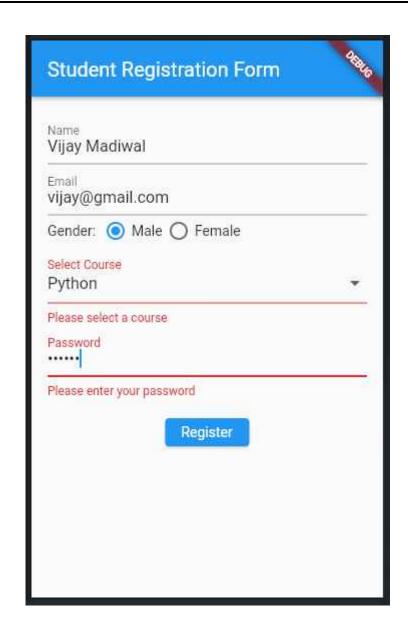




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**Conclusion**: In this experiment we have designed an interactive form by using various form widgets.