



PARSHVANATH CHARITABLE TRUST'S
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Department of Information Technology

Academic Year: 2024-25

Semester: VI

Class / Branch / Div: TE- IT C

Subject: MAD & PWA Lab

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Name of Student: Vijay madiwal

Student ID: 23204010

Roll No. 13

Date of Submission: 03/03/25

Experiment No.4

Aim : 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>(
```



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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 :

Student Registration Form

DEBUG

Name

Email

Gender:

☐ Male

☐ Female

Select Course

Password

Register



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Student Registration Form

DEBUG

Name

Vijay Madiwal

Email

Please enter your email

Gender:

☐ Male ☐ Female

Select Course

Please select a course

Password

Please enter your password

Register



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Student Registration Form DEBUG

Name
Vijay Madiwal

Email
vijay@gmail.com

Gender: ☒ Male ☐ Female

Select Course
Python

Please select a course

Password
.....

Please enter your password

Register

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