

MPL EXP 4

Aim: To create an interactive Form using form widget

Code:

main.dart

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

```
void main() {
  runApp(MyApp());
}
```

```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: RegistrationForm(),
    );
  }
}
```

registration_form.dart

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

```
class RegistrationForm extends StatefulWidget {
  @override
  _RegistrationFormState createState() => _RegistrationFormState();
}
```

```
class _RegistrationFormState extends State<RegistrationForm> {
  // ♦ Step 1: GlobalKey for Form
  final _formKey = GlobalKey<FormState>();

  // ♦ Step 2: Controllers for Name, Email, Password
  final TextEditingController nameController = TextEditingController();
  final TextEditingController emailController = TextEditingController();
  final TextEditingController passwordController = TextEditingController();
  String? selectedGender; // Gender selection

  // ♦ Step 3: Submit Function
  void _submitForm() {
    if (_formKey.currentState!.validate()) {
```

```

ScaffoldMessenger.of(context).showSnackBar(
  SnackBar(content: Text('Form Submitted Successfully!')),
);
print('Name: ${nameController.text}');
print('Email: ${emailController.text}');
print('Gender: $selectedGender');
print('Password: ${passwordController.text}');
}
}

```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(title: Text('Registration Form')),
    body: Padding(
      padding: EdgeInsets.all(16.0),
      child: Form(
        key: _formKey, // ♦ Step 4: Assign GlobalKey to Form
        child: Column(
          children: [
            // ♦ Step 5: Name Input Field
            TextFormField(
              controller: nameController,
              decoration: InputDecoration(labelText: 'Name'),
              validator: (value) {
                if (value == null || value.isEmpty) {
                  return 'Please enter your name';
                }
                return null;
              },
            ),
            SizedBox(height: 10),

            // ♦ Step 6: Email Input Field
            TextFormField(
              controller: emailController,
              decoration: InputDecoration(labelText: 'Email'),
              keyboardType: TextInputType.emailAddress,
              validator: (value) {
                if (value == null || value.isEmpty) {
                  return 'Please enter your email';
                } else if
(!RegExp(r'^[a-zA-Z0-9+_.-]+@[a-zA-Z0-9.-]+$').hasMatch(value)) {
                  return 'Enter a valid email';
                }
              },
            ),
          ],
        ),
      ),
    ),
  );
}

```

```

    }
    return null;
  },
),
 SizedBox(height: 10),

// ♦ Step 7: Gender Dropdown
DropdownButtonFormField<String>(
  decoration: InputDecoration(labelText: 'Gender'),
  value: selectedGender,
  items: ['Male', 'Female', 'Other']
    .map((gender) => DropdownMenuItem(value: gender, child:
Text(gender)))
    .toList(),
  onChanged: (value) {
    setState(() {
      selectedGender = value;
    });
  },
  validator: (value) => value == null ? 'Please select a gender' : null,
),
 SizedBox(height: 10),

// ♦ Step 8: Password Input Field
TextFormField(
  controller: passwordController,
  decoration: InputDecoration(labelText: 'Password'),
  obscureText: true,
  validator: (value) {
    if (value == null || value.isEmpty) {
      return 'Please enter a password';
    } else if (value.length < 6) {
      return 'Password must be at least 6 characters';
    }
    return null;
  },
),
 SizedBox(height: 20),

// ♦ Step 9: Submit Button
Center(
  child: ElevatedButton(
    onPressed: _submitForm,
    child: Text('Submit'),

```

```
    },  
    },  
  ],  
  ),  
  ),  
  ),  
);  
}
```

Output:

localhost:53215

Registration Form

Name
Ria

Email
2022.ria.chaudhari@ves.ac.in

Gender
Female

Password
.....

Submit

localhost:53215

localhost:53215

Registration Form

Name

Ria

Email

2022.ria.chaudhari@ves.ac.in

Gender

Female

Password

.....

Password must be at least 6 characters

Submit

localhost:53215

localhost:53215

Registration Form

Name

Ria

Email

2022.ria.chaudhari@ves.ac.in

Gender

Female

Password

.....

Submit

Form Submitted Successfully!