

## MAD & PWA LAB

### EXP- 4

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**Aim:** To create an interactive Form using form widget

**Code:**

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Form Validation',
      home: MyForm(),
    );
  }
}

class MyForm extends StatefulWidget {
  @override
  _MyFormState createState() => _MyFormState();
}

class _MyFormState extends State<MyForm> {
```

```
final _formKey = GlobalKey<FormState>();
String _name = '';
String _email = '';
String _message = '';

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text('Form Validation'),
    ),
    body: Padding(
      padding: const EdgeInsets.all(16.0),
      child: Form(
        key: _formKey,
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: <Widget>[
            TextFormField(
              decoration: InputDecoration(labelText:
'Name'),

              validator: (value) {
                if (value == null || value.isEmpty) {
                  return 'Please enter your name';
                }
                return null;
              },
              onSave: (value) {
                _name = value!;
              },
            ),
            TextFormField(
```

```
        decoration: InputDecoration(labelText:
'Email'),
        validator: (value) {
            if (value == null || value.isEmpty) {
                return 'Please enter your email';
            }
            // This is a basic email validation
            if (!value.contains('@')) {
                return 'Please enter a valid email';
            }
            return null;
        },
        onSave: (value) {
            _email = value!;
        },
    ),
    SizedBox(height: 20),
    ElevatedButton(
        onPressed: () {
            _submitForm();
        },
        child: Text('Submit'),
    ),
    SizedBox(height: 20),
    Text(_message),
],
),
),
),
);
}
```

```
void _submitForm() {  
    if (_formKey.currentState!.validate()) {  
        _formKey.currentState!.save();  
        // You can handle form submission here  
        setState(() {  
            _message = 'Form successfully submitted!\nName:  
$_name\nEmail: $_email';  
        });  
    } else {  
        setState(() {  
            _message = 'Invalid format. Please correct the  
errors.';  
        });  
    }  
}
```

**Output:**

The image displays two side-by-side screenshots of a mobile application interface for a 'Form Validation' form. Both screenshots show a status bar at the top with the time 11:49, signal strength, and a battery level of 46%. A red 'DEBUG' banner is visible in the top right corner of each screen.

**Left Screenshot (Invalid Email):**

- Title: Form Validation
- Name field: himanshu
- Email field: him
- Error message: Please enter a valid email
- Submit button: Submit
- Feedback message: Invalid format. Please correct the errors.

**Right Screenshot (Successful Submission):**

- Title: Form Validation
- Name field: himanshu
- Email field: him@gmail.com
- Submit button: Submit
- Feedback message: Form successfully submitted!
- Summary text: Name: himanshu, Email: him@gmail.com