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MAD LAB-4

Aim: To create an interactive Form using form widget

Code :

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

void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false,
    theme: ThemeData.dark(),
    home: TaskScreen(),
  ));
}

class TaskScreen extends StatefulWidget {
  @override
  _TaskScreenState createState() => _TaskScreenState();
}

class _TaskScreenState extends State<TaskScreen> {
  TextEditingController titleController = TextEditingController();
  TextEditingController descriptionController = TextEditingController();
  DateTime selectedDate = DateTime.now();
  String selectedSubject = "Software Engineering";
  String priority = "Low";

  void _pickDate() async {
    DateTime? pickedDate = await showDatePicker(
      context: context,
      initialDate: selectedDate,
      firstDate: DateTime(2020),
```

```dart
        lastDate: DateTime(2100),
      );
      if (pickedDate != null && pickedDate != selectedDate) {
        setState(() {
          selectedDate = pickedDate;
        });
      }
    }

    void _setPriority(String value) {
      setState(() {
        priority = value;
      });
    }

    @override
    Widget build(BuildContext context) {
      return Scaffold(
        appBar: AppBar(
          title: Text("Task"),
          leading: IconButton(
            icon: Icon(Icons.arrow_back),
            onPressed: () => Navigator.pop(context),
          ),
          actions: [
            IconButton(
              icon: Icon(Icons.delete),
              onPressed: () {
                // Handle delete action
              },
            ),
          ],
        ),
        body: Padding(
          padding: const EdgeInsets.all(16.0),
```

```dart
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Text("Title"),
            TextField(
              controller: titleController,
              decoration: InputDecoration(
                border: OutlineInputBorder(),
              ),
            ),
            SizedBox(height: 10),
            Text("Description"),
            TextField(
              controller: descriptionController,
              maxLines: 3,
              decoration: InputDecoration(
                border: OutlineInputBorder(),
              ),
            ),
            SizedBox(height: 10),
            Text("Due Date"),
            Row(
              mainAxisAlignment: MainAxisAlignment.spaceBetween,
              children: [
                Text(
                  "${selectedDate.day} ${_getMonthName(selectedDate.month)} ${selectedDate.year}",
                ),
                IconButton(
                  icon: Icon(Icons.calendar_today),
                  onPressed: _pickDate,
                ),
              ],
            ),
            SizedBox(height: 10),
```

```dart
Text("Priority"),
Row(
  children: [
    _priorityButton("Low", Colors.green),
    _priorityButton("Medium", Colors.yellow),
    _priorityButton("High", Colors.red),
  ],
),
SizedBox(height: 10),
Text("Related To Subject"),
DropdownButtonFormField<String>(
  value: selectedSubject,
  items: ["Software Engineering", "Mathematics", "Physics"]
      .map((subject) => DropdownMenuItem(
          child: Text(subject),
          value: subject,
        ))
      .toList(),
  onChanged: (value) {
    setState(() {
      selectedSubject = value!;
    });
  },
  decoration: InputDecoration(
    border: OutlineInputBorder(),
  ),
),
SizedBox(height: 20),
Center(
  child: ElevatedButton(
    onPressed: () {
      // Handle save action
    },
    style: ElevatedButton.styleFrom(
      backgroundColor: Colors.blue,
```

```dart
              padding: EdgeInsets.symmetric(horizontal: 40, vertical: 15),
            ),
            child: Text("Save"),
          ),
        ),
      ],
    ),
  ),
);
}

Widget _priorityButton(String label, Color color) {
  return Padding(
    padding: const EdgeInsets.only(right: 8.0),
    child: ElevatedButton(
      onPressed: () => _setPriority(label),
      style: ElevatedButton.styleFrom(
        backgroundColor: priority == label ? color.withOpacity(0.7) : color,
      ),
      child: Text(label),
    ),
  );
}

String _getMonthName(int month) {
  const months = [
    "Jan", "Feb", "Mar", "Apr", "May", "Jun",
    "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"
  ];
  return months[month - 1];
}
}
```

Output :