

## EX: 3

### Program :

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

void main() {
  runApp(const StudentApp());
}

class StudentApp extends StatelessWidget {
  const StudentApp({super.key});

  @override
  Widget build(BuildContext context) {
    return const MaterialApp(
      debugShowCheckedModeBanner: false,
      home: StudentHome(),
    );
  }
}

/* ----- STUDENT MODEL ----- */
class Student {
  String name;
  String rollNo;

  Student(this.name, this.rollNo);
}

/* ----- HOME SCREEN ----- */
class StudentHome extends StatefulWidget {
  const StudentHome({super.key});

  @override
  State<StudentHome> createState() => _StudentHomeState();
}

class _StudentHomeState extends State<StudentHome> {
  List<Student> students = [];

  final TextEditingController nameController = TextEditingController();
  final TextEditingController rollController = TextEditingController();
```

```
void addStudent() {
    if (nameController.text.isNotEmpty &&
        rollController.text.isNotEmpty) {
        setState(() {
            students.add(
                Student(nameController.text, rollController.text),
            );
            nameController.clear();
            rollController.clear();
        });
    }
}

void deleteStudent(int index) {
    setState(() {
        students.removeAt(index);
    });
}

@Override
Widget build(BuildContext context) {
    return Scaffold(
        appBar: AppBar(title: const Text("Student Record Manager")),
        body: Padding(
            padding: const EdgeInsets.all(16),
            child: Column(
                children: [
                    TextField(
                        controller: nameController,
                        decoration: const InputDecoration(
                            labelText: "Student Name",
                            border: OutlineInputBorder(),
                    )),
                    const SizedBox(height: 10),
                    TextField(
                        controller: rollController,
                        decoration: const InputDecoration(
                            labelText: "Roll Number",
                            border: OutlineInputBorder(),
                    )),
                ],
            ),
        ),
    );
}
```

```
const SizedBox(height: 10),
ElevatedButton(
  onPressed: addStudent,
  child: const Text("Add Student"),
),
const SizedBox(height: 20),
Expanded(
  child: students.isEmpty
    ? const Center(child: Text("No records found"))
    : ListView.builder(
      itemCount: students.length,
      itemBuilder: (context, index) {
        return Card(
          child: ListTile(
            title: Text(students[index].name),
            subtitle:
              Text("Roll No: ${students[index].rollNo}"),
            trailing: IconButton(
              icon: const Icon(Icons.delete, color: Colors.red),
              onPressed: () => deleteStudent(index),
            ),
          ),
        );
      },
    ),
),
);
});
```

**Output:**

The screenshot shows a mobile application titled "Student Record Manager". The interface is divided into two main sections: input fields and a message area. At the top, there is a blue header bar with the title. Below the header are two input fields, both outlined in light gray. The first field is labeled "Student Name" and the second is labeled "Roll Number". Underneath these fields is a blue button with white text that says "Add Student". At the bottom of the screen, centered, is the message "No records found".

Student Record Manager

Student Name

Roll Number

Add Student

No records found

## Student Record Manager

Student Name

Roll Number

Add Student

G.Dharshini

Roll No: 23ucs104



M.Sathya

Roll No: 23ucs146



M.Shivani sri

Roll No: 23ucs149



V.Viona

Roll No: 23ucs048

