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CODE

main.dart

```
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';
import 'viewmodels/task_viewmodel.dart';
import 'views/task_list_screen.dart';
void main() {
runApp(
 MultiProvider(
   providers: [
   ChangeNotifierProvider(create: (_) => TaskViewModel()),
  ],
  child: MyApp(),
 ),
);
}
class MyApp extends StatelessWidget {
@override
Widget build(BuildContext context) {
  return MaterialApp(
  title: 'Simple To-Do App',
```

```
theme: ThemeData(primarySwatch: Colors.brown),
  home: TaskListScreen(),
 );
}
}
task.dart
class Task {
final String title;
final String description;
Task({required this.title, required this.description});
}
Task_viewmodel.dart (this has my provider class)
import 'package:flutter/foundation.dart';
import '../models/task.dart';
class TaskViewModel with ChangeNotifier {
final List<Task> _tasks = [];
List<Task> get tasks => _tasks;
void addTask(String title, String description) {
  if (title.isNotEmpty && description.isNotEmpty) {
  _tasks.add(Task(title: title, description: description));
  notifyListeners();
 }
```

```
}
```

Task_list_screen.dart

```
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';
import '../viewmodels/task_viewmodel.dart';
import 'add_task_screen.dart';
class TaskListScreen extends StatelessWidget {
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   backgroundColor: Theme.of(context).colorScheme.inversePrimary,
   title: Text('To-Do List')
   ),
  body: Consumer<TaskViewModel>(
   builder: (context, taskViewModel, child) {
    final tasks = taskViewModel.tasks;
    return tasks.isEmpty
      ? Center(child: Text('No tasks added yet'))
      : ListView.builder(
        itemCount: tasks.length,
        itemBuilder: (context, index) {
         final task = tasks[index];
         return ListTile(
          title: Text(task.title),
```

```
subtitle: Text(task.description),
         );
        },
       );
   },
  ),
   floatingActionButton: FloatingActionButton(
   onPressed: () {
    Navigator.push(
     context,
     MaterialPageRoute(builder: (context) => AddTaskScreen()),
    );
   },
   child: Icon(Icons.add),
  ),
 );
}
add_task_screen.dart
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';
import '../viewmodels/task_viewmodel.dart';
class AddTaskScreen extends StatelessWidget {
final TextEditingController _titleController = TextEditingController();
final TextEditingController _descriptionController = TextEditingController();
```

}

```
@override
```

```
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(title: Text('Add New Task')),
  body: Padding(
   padding: const EdgeInsets.all(16.0),
   child: Column(
   children: [
    TextField(
     controller: _titleController,
     decoration: InputDecoration(labelText: 'Task Title'),
    ),
    TextField(
      controller: _descriptionController,
     decoration: InputDecoration(labelText: 'Task Description'),
    ),
    SizedBox(height: 20),
    ElevatedButton(
     onPressed: () {
      final title = _titleController.text.trim();
      final description = _descriptionController.text.trim();
       if (title.isNotEmpty && description.isNotEmpty) {
        Provider.of<TaskViewModel>(context, listen: false)
          .addTask(title, description);
        Navigator.pop(context);
      } else {
        ScaffoldMessenger.of(context).showSnackBar(
```

```
SnackBar(content: Text('Please fill in all fields')),
);
},
child: Text('Add Task'),
),
],
),
);
}
```