Project Title: "My To-Do List"

Project Description: This app allows the user to create a to-do list and check off items as they are completed. The app will have two screens: a home screen and a to-do list screen. The home screen will display a button that takes the user to the to-do list screen. The to-do list screen will display a list of to-do items. The user can add new items to the list and check them off when they are completed.

Project Features:

- Home screen with a button to go to the to-do list screen.
- To-do list screen that displays a list of to-do items.
- Ability to add new items to the list.
- Ability to mark items as completed.
- Button to remove completed items from the list.

Technical Details:

1. Create a new Flutter project in Android Studio or VS Code.
2. Create a Todo class that represents a to-do item. It should have properties for the item text and whether it is completed.
3. Create a TodoList class that manages a list of Todo items. It should have methods for adding new items to the list, marking items as completed, and removing completed items.
4. Create a home screen that displays a button to go to the to-do list screen.
5. Create a to-do list screen that displays the list of to-do items. It should have a button to add new items to the list and a checkbox to mark items as completed.

- Add functionality to add new items to the list.
- Add functionality to mark items as completed.
- Add functionality to remove completed items from the list.

Test the app thoroughly to ensure it is functioning correctly.

That's it! This simple to-do list app should be easy to implement and a great way to get started with Flutter.

Sample Coding for Project Title: "My To-Do List"

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Sample Coding for the Steps:

1. Create a new Flutter project in Android Studio or VS Code.

2. Create a Todo class that represents a to-do item. It should have properties for the item text and whether it is completed.

```
class Todo {
  final String text;
  bool isCompleted;
  Todo({required this.text, this.isCompleted = false});
}
```

3. Create a TodoList class that manages a list of Todo items. It should have methods for adding new items to the list, marking items as completed, and removing completed items.

```
class TodoList {
  final List<Todo> _todos = [];

  List<Todo> get todos => _todos;

  void add(String text) {
    _todos.add(Todo(text: text));
  }

  void complete(Todo todo) {
    todo.isCompleted = true;
  }

  void removeCompleted() {
```

```
    _todos.removeWhere((todo) => todo.isCompleted);
  }
}
```

4. Create a home screen that displays a button to go to the to-do list screen.

```
class HomeScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('My To-Do List'),
      ),
      body: Center(
        child: ElevatedButton(
          child: Text('Go to To-Do List'),
          onPressed: () {
            Navigator.push(
              context,
              MaterialPageRoute(builder: (context) => TodoListScreen()),
            );
          },
        ),
      ),
    );
  }
}
```

5. Create a to-do list screen that displays the list of to-do items. It should have a button to add new items to the list and a checkbox to mark items as completed.

```
class TodoListScreen extends StatefulWidget {
  @override
  _TodoListScreenState createState() => _TodoListScreenState();
}

class _TodoListScreenState extends State<TodoListScreen> {
  final TodoList _todoList = TodoList();
  final TextEditingController _textEditingController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('To-Do List'),
      ),
      body: Column(
        children: [
          Expanded(
            child: ListView.builder(
              itemCount: _todoList.todos.length,
              itemBuilder: (context, index) {
                final todo = _todoList.todos[index];
                return ListTile(
                  title: Text(todo.text),
                  leading: Checkbox(
                    value: todo.isCompleted,
                    onChanged: (value) {
                      setState(() {
```

```
                    _todoList.complete(todo);
                  });
                },
              ),
            );
          },
        ),
      ),
      TextField(
        controller: _textEditingController,
        decoration: InputDecoration(
          hintText: 'Enter a new to-do item',
          contentPadding: EdgeInsets.all(16.0),
        ),
        onSubmitted: (text) {
          setState(() {
            _todoList.add(text);
            _textEditingController.clear();
          });
        },
      ),
      ElevatedButton(
        child: Text('Remove Completed'),
        onPressed: () {
          setState(() {
            _todo
```