

CPA Assignment Submission

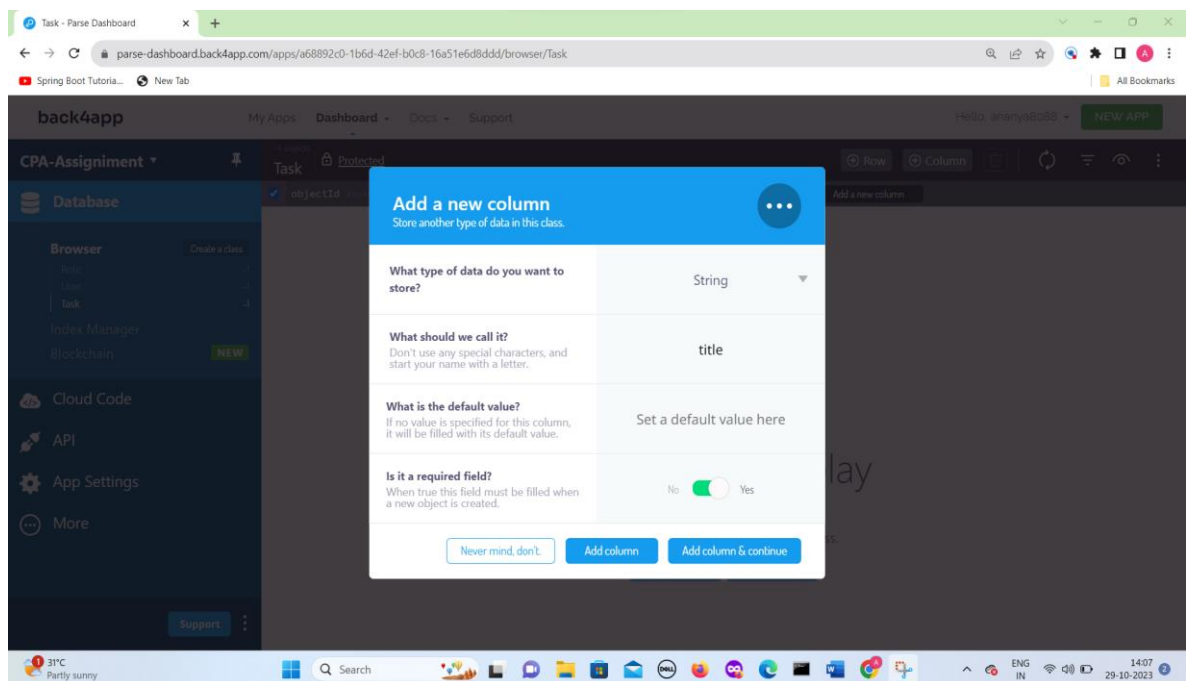
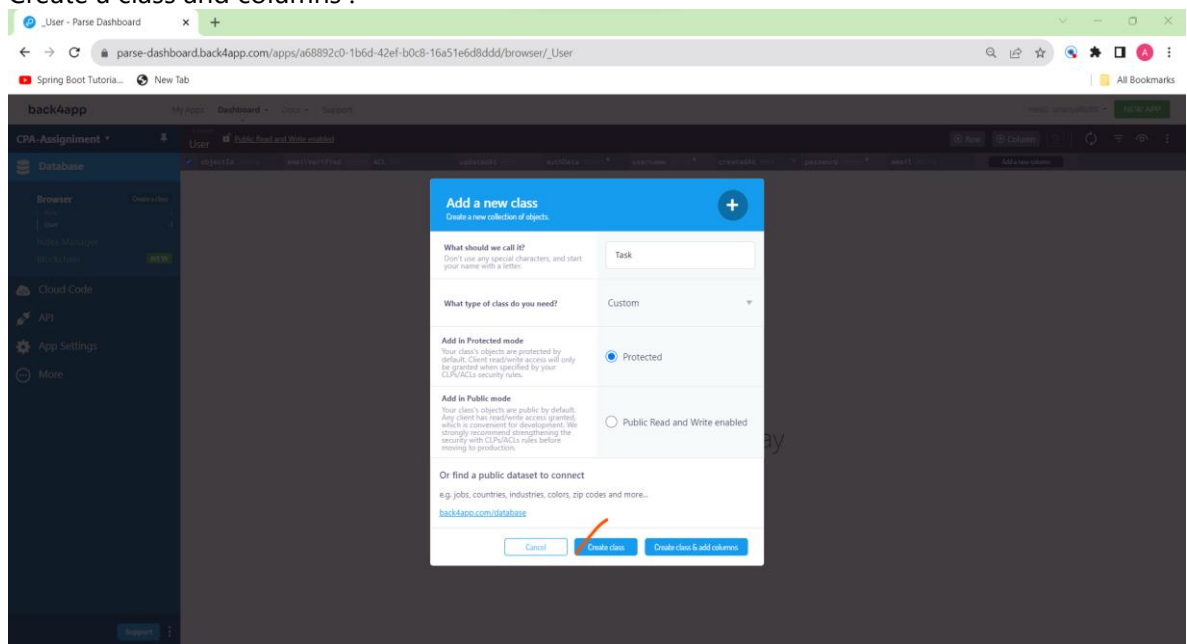
Submit the link to your GitHub repository where you've hosted your Flutter app code.

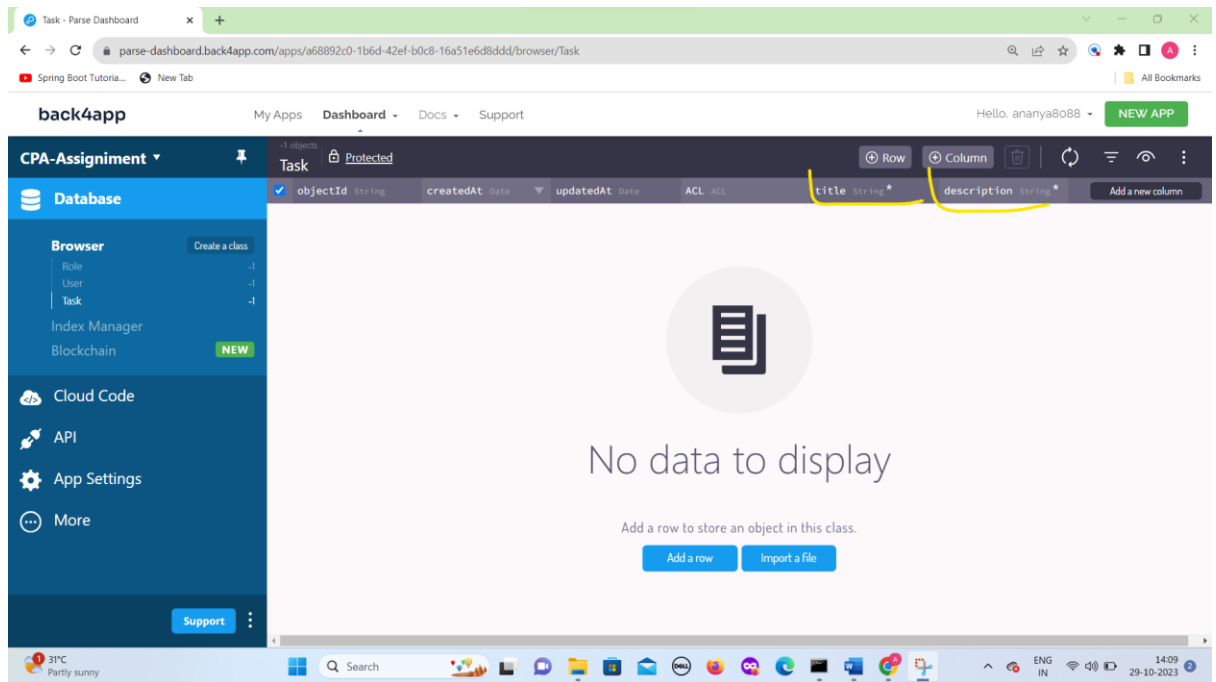
Github URL : <https://github.com/sowmyasantoshi4/cpa-assign.git>

Include a short README explaining how to set up and run your app.

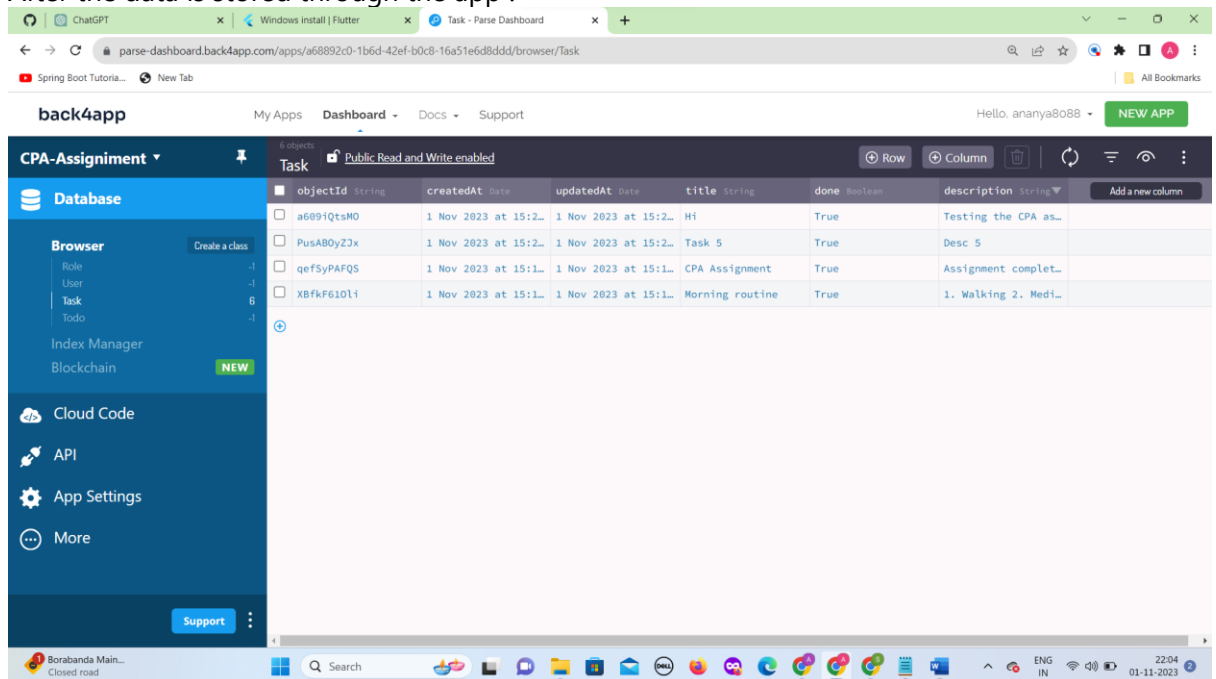
SetUp :

1. Create account in Back4app : <https://www.back4app.com/>
2. Create a class and columns :





3. After the data is stored through the app :



4. Download and install Flutter in **windows** using below steps :

- Goto : <https://docs.flutter.dev/get-started/install/windows> and download the .zip
- Extract into a folder
- Set path in environment variables like : D:flutter_path
- Goto command prompt and give the following commands :
 - o where flutter dart // shows where the flutter path
 - o flutter doctor // check everything is OK or not
 - o flutter doctor --android-licenses

5. After successful installation, create flutter project by using the following command in command prompt :

flutter create app_name

6. In command prompt, move to the newly created app folder.

- ```
dependencies:
 flutter:
 sdk: flutter

The following adds the Cupertino Icons font to your application.
Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.2
parse_server_sdk: any
```

- ```
D:\flutter_windows_3.13.8-stable\appDev\cpa_assign>flutter devices
4 connected devices:

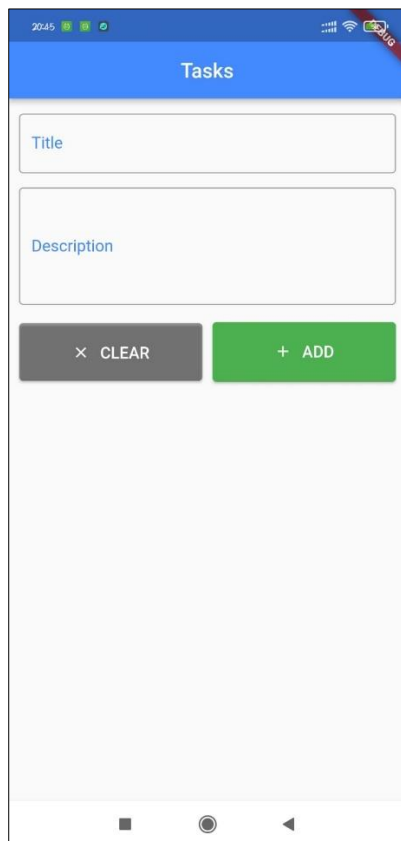
Redmi 6 Pro (mobile) • 10a4dc840305 • android-arm64 • Android 9 (API 28)
Windows (desktop)   • windows     • windows-x64   • Microsoft Windows [Version 10.0.22621.2428]
Chrome (web)        • chrome      • web-javascript • Google Chrome 118.0.5993.118
Edge (web)          • edge        • web-javascript • Microsoft Edge 118.0.2088.76
```

- [illegible]

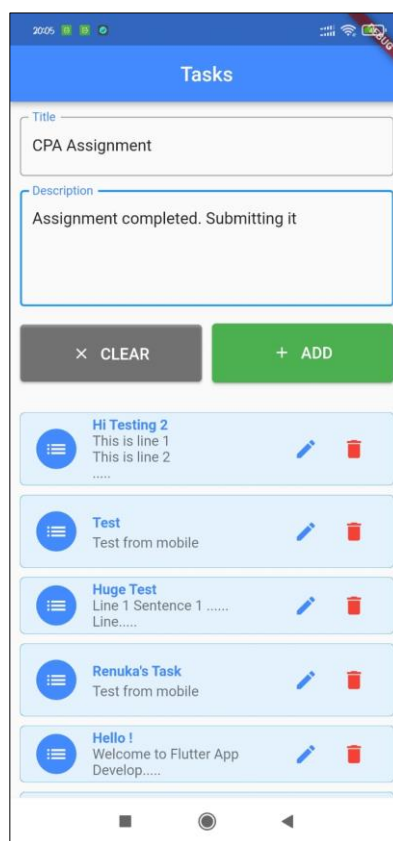
12. Enter the option you wish to.

13. Check the mobile for app installed and view it.

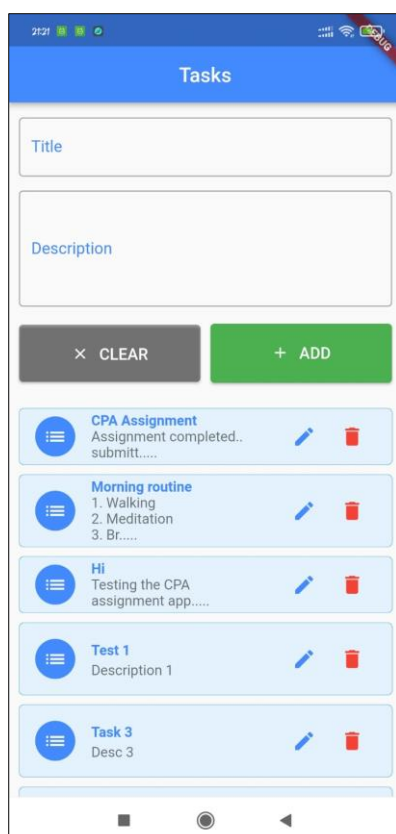
Landing page :



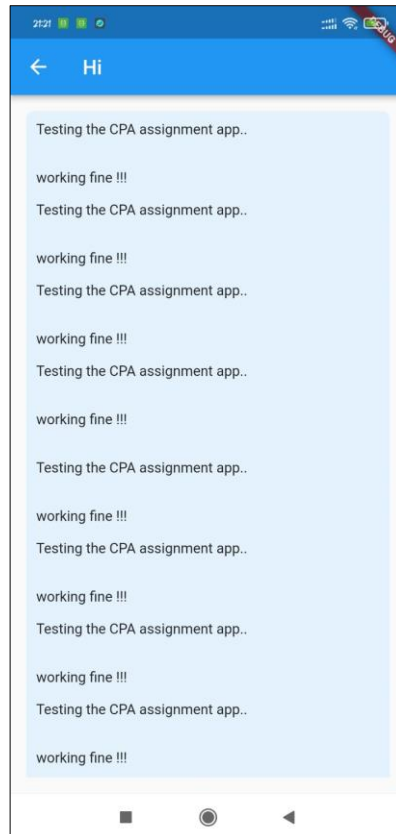
Adding Task :



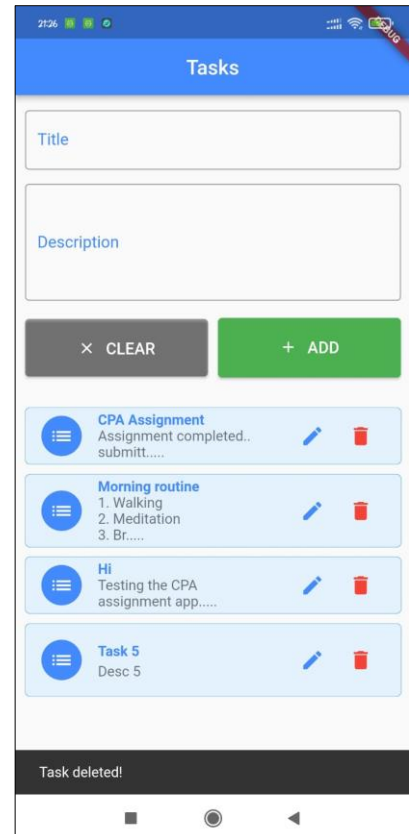
List of Tasks :



Detailed View :



Deleting a task :



Edit & Updating Task :

21:21

Tasks

Title

CPA Assignment

Description

Assignment completed.. submitting now

× CLEAR

✓ UPDATE

CPA Assignment
Assignment completed.. submit.....

Morning routine
1. Walking
2. Meditation
3. Br.....

Hi
Testing the CPA
assignment app.....

Test 1
Description 1

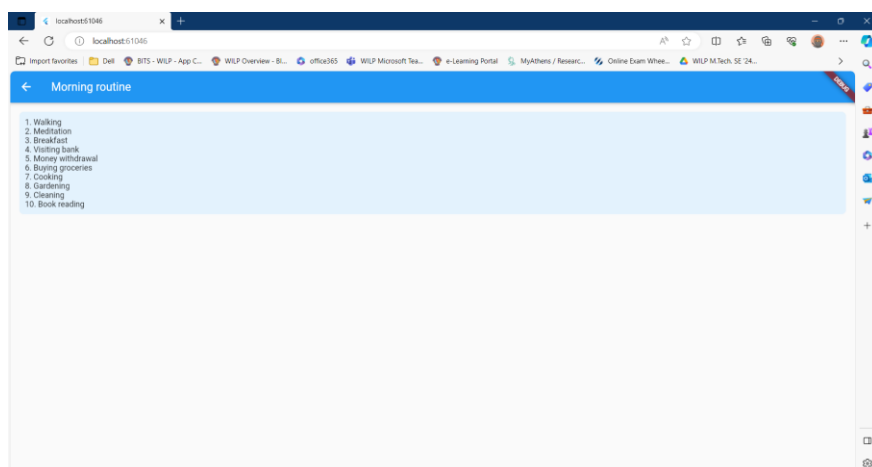
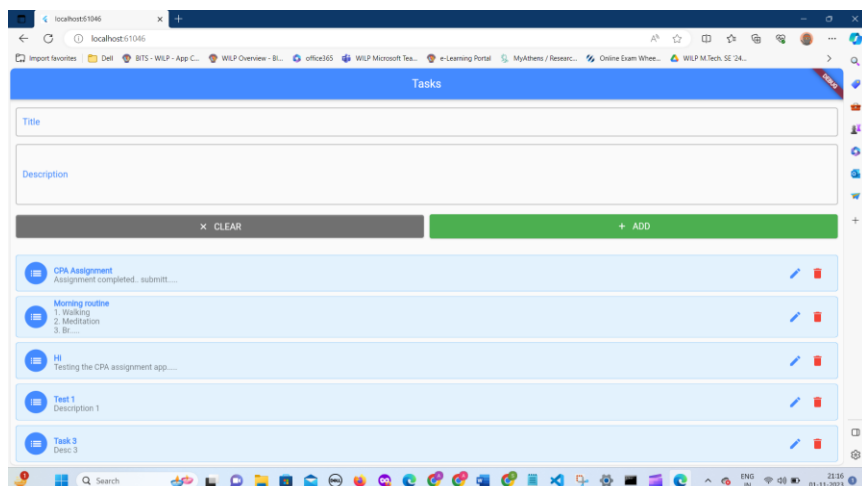
Task 3
Desc 3

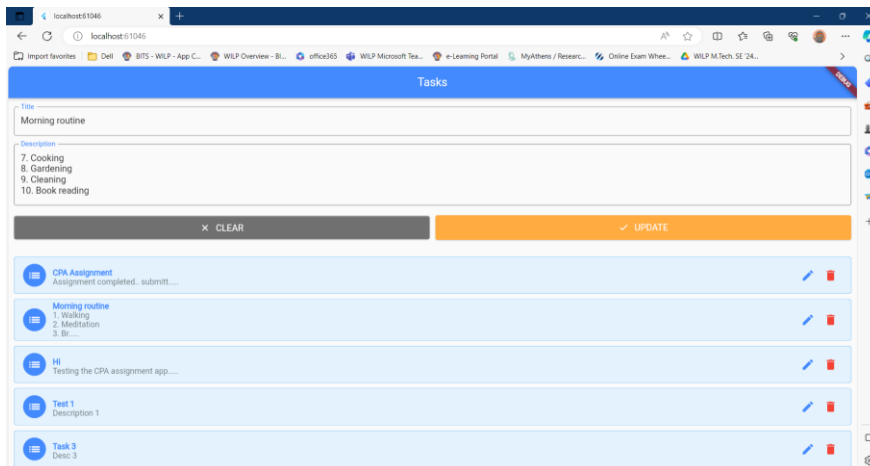
21:33

← CPA Assignment

Assignment completed.. submitting now

14. Check the browser opened automatically showing the output.

[illegible]



15. Connecting to back4app :

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

void main() async {
  WidgetsFlutterBinding.ensureInitialized();

  final keyApplicationId = 'RDQDCu0ff0g37AlK2oxesX9X305Hw1ZpwwCvFFii';
  final keyClientKey = 'e9dgIrOG4a5fYrQprnKCvHXdUa8abgu9Qujt7Oyk';
  final keyParseServerUrl = 'https://parseapi.back4app.com';

  await Parse().initialize(keyApplicationId, keyParseServerUrl,
    clientKey: keyClientKey, debug: true);

  runApp(MaterialApp(
    home: Home(),
  ));
}

class Home extends StatefulWidget {
  @override
  _HomeState createState() => _HomeState();
}

class _HomeState extends State<Home> {
  final taskController = TextEditingController();
  final descController = TextEditingController();
  final objIdController = TextEditingController();
  bool isUpdate = false;

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Tasks"),
        backgroundColor: Colors.blueAccent,
        centerTitle: true,
      ),
    );
  }
}
```

16. Save(), update(), delete(), get() for accessing the data :

```
Future<void> saveTask(String title, String description) async {
  final task = ParseObject('Task')..set('title', title)..set('description', description)..set('done', true);
  await task.save();
}

Future<List<ParseObject>> getTasks() async {
  QueryBuilder<ParseObject> queryTask = QueryBuilder<ParseObject>(ParseObject('Task'));
  final ParseResponse apiResponse = await queryTask.query();

  if (apiResponse.success && apiResponse.results != null) {
    return apiResponse.results as List<ParseObject>;
  } else {
    return [];
  }
}

void editTask(String id, String title, String description) {
  taskController.text=title;
  descController.text=description;
  objIdController.text=id;
  setState(() => isUpdate=true);
}

Future<void> updateTask(String id, String title, String description) async {
  var task = ParseObject('Task')
    ..set('objectId', id)
    ..set('title', title)
    ..set('description', description)
    ..set('done', true);
  await task.update();
}

Future<void> deleteTask(String id) async {
  var task = ParseObject('Task')..objectId = id;
  await task.delete();
}

void clearTask() {}
```

Brief overview of bonus features implemented:

- Added Clear button to clear the data
- Added validation before submitting the empty data.
- Added multiline for description
- Added icons for the Add and Clear buttons
- Added CSS for the task list items and details of the task
- Showed limited text for the description in the task list items when exceeded more than 30 chars and displayed whole text in details
- Dynamic text change on button from Add to Update and Update to Add, according to the mode of operation along with background colour.
- Made containers scrollable if the height is exceeding.