

M. Tech. in Software Engineering

Cross Platform Application Development SEZG585 Flutter App with Back4app Integration

Name – Hemant Tiwari BITS Student ID – 2022MT93184 Semester – 1st FY 2023-2024 Make sure everything is installed properly by running flutter doctor command.

```
PS C:\Users\Hemant Tiwari\Downloads\Assignments\CrossPlatform\flutter_back_4_app> flutter doctor
Doctor summary (to see all details, run flutter doctor -v):

[V] Flutter (Channel stable, 3.13.9, on Microsoft Windows [Version 10.0.22621.2428], locale en-IN)

[V] Windows Version (Installed version of Windows is version 10 or higher)

[V] Android toolchain - develop for Android devices (Android SDK version 34.0.0)

[V] Chrome - develop for the web

[V] Visual Studio - develop Windows apps (Visual Studio Community 2022 17.7.6)

[V] Android Studio (version 2022.3)

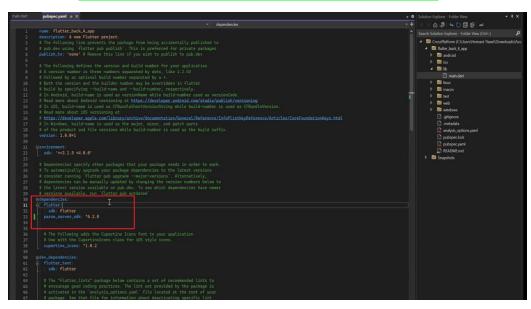
[V] Connected device (3 available)

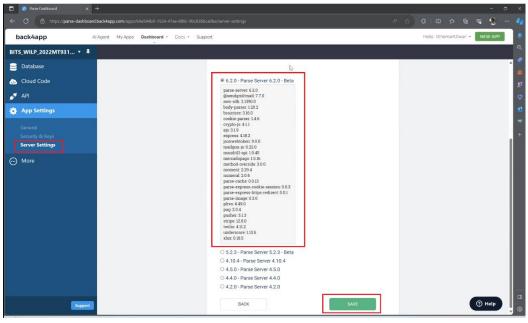
[V] Network resources

* No issues found!

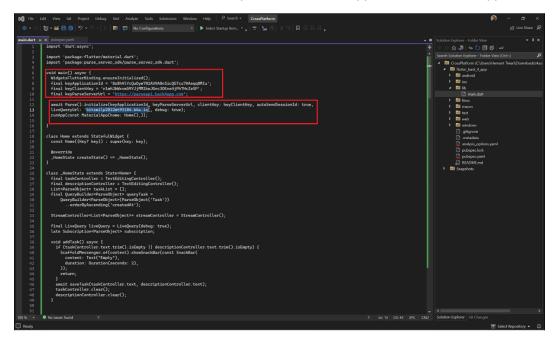
PS C:\Users\Hemant Tiwari\Downloads\Assignments\CrossPlatform\flutter_back_4_app>
```

Make sure parse-server-sdk version is same in your flutter application (pubspec.yaml) and back4app (App Setting >> Server Settings >> Manage Parse server).

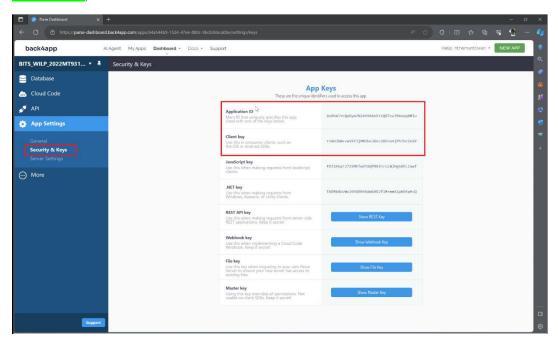




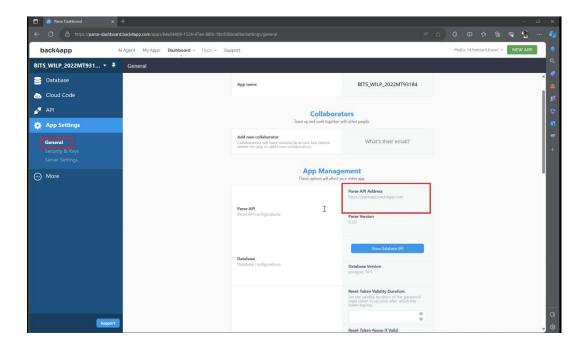
Update the keyApplicationId, final keyClientKey, and final keyParseServerUrl in In main.dart file. This is done so as to make sure connectivity between Flutter Application and Back4app.



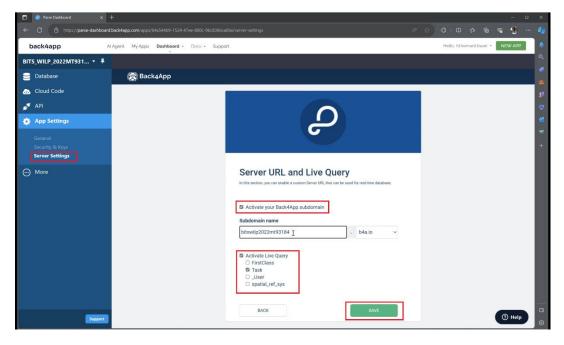
We can get these details from Back4app (App Settings >> Security & keys and App Settings >> General).



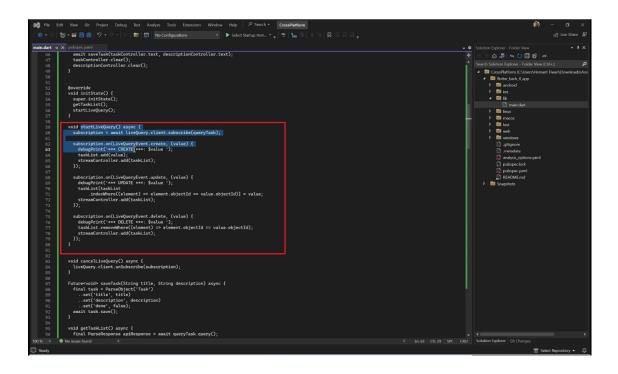
The Parse API "https://parseapi.back4app.com" is same for all the Back4App.



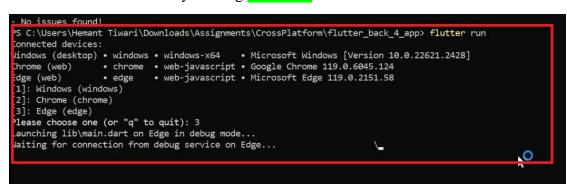
Since we are creating Interactive/Live Application therefore we need to make sure that Back4App subdomain is activated with Activating Live Query. This can be done from Server URL and Live Query (App Settings >> Server Settings >> Server URL and Live Query). The liveQueryUrl is updated in the main.dart file as shown above. This is unique to a Dashboard.

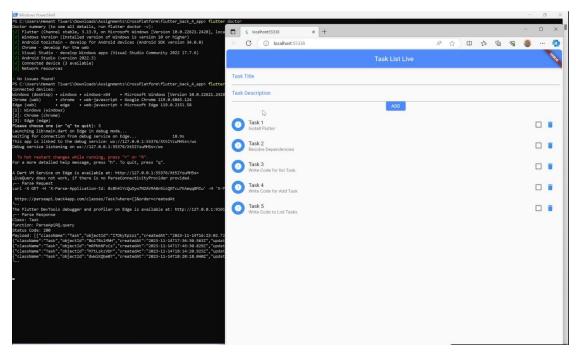


We need to startLiveQuery with CREATE, UPDATE, and DELETE. This is done to ensure that we are able to Make changes while running the application.

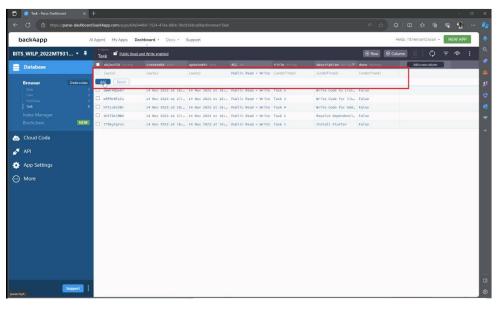


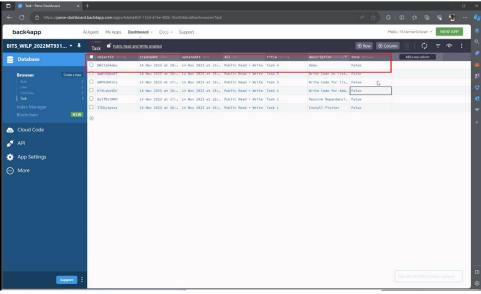
We will execute the code by running flutter run command.

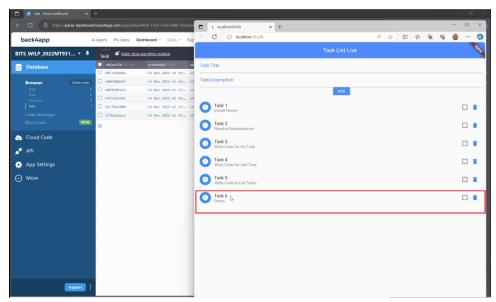




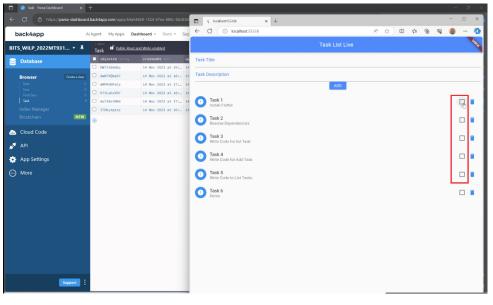
Adding task in Back4App will be update in flutter application.

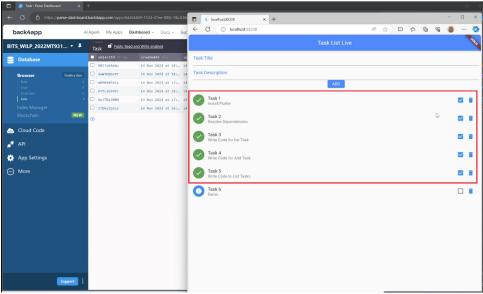


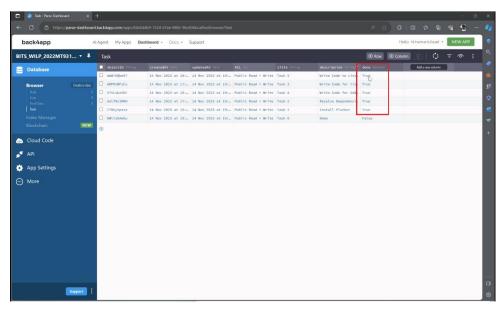




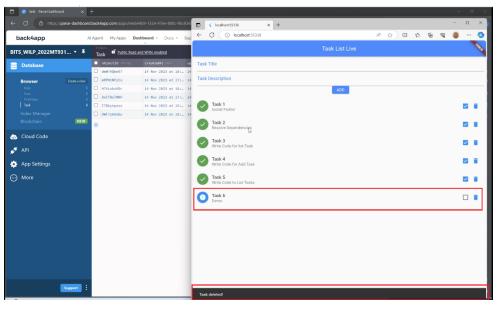
Updating the task in flutter application will be Updated in Back4app.

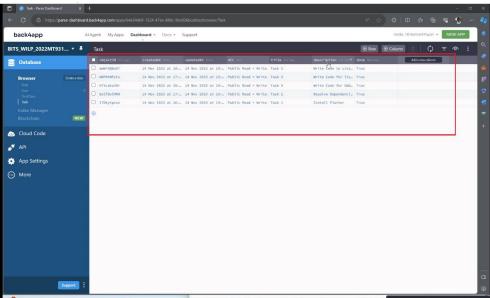




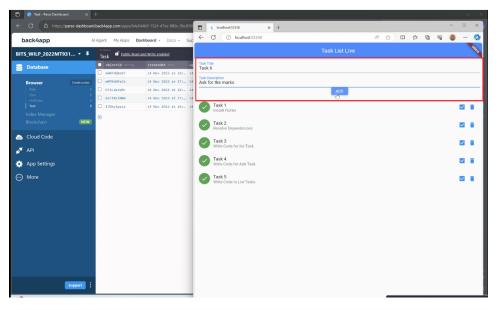


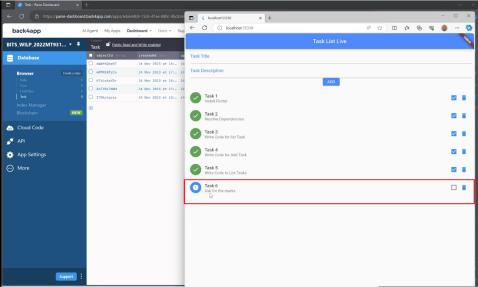
Deleting the task in flutter application will be Delete in Back4app.

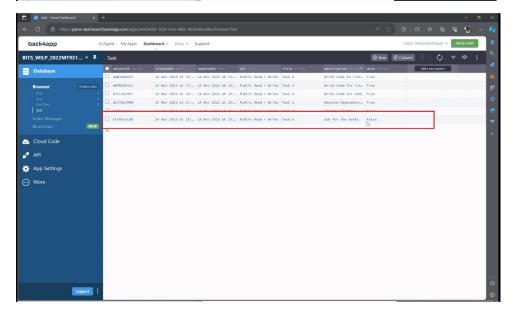




Adding in flutter application will add in Back4App.







The Query Execution can be seen in the logs.

POST and **GET** (**CREATE**) Queries -

DELETE and **GET** (**DELETE**) Queries -

```
--- Parsa Request
--- Curl --- V-Parse-Application-Id: 828H1YQQ.0ym/NQAVSABn5icQTcuTKAeqq88Uu' -H 'X-Parse-Client-Key: rlm*\Dbbnvw5973jMQke3Gnc3OEnodjPh7HcZeSP' https://parseapi.backdapp.com/classes/Task/DMl726Aebu
https://parseapi.backdapp.com/classes/Task/DMl726Aebu
--- Parsa Response
Class: Task
Function | Parsa Response
Class: Task
Purple Response
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Class: Task
Purple Response
Curl --- V-Parsa Request
--- Parsa Response
--- Pa
```

PUT and **GET** (**UPDATE**) Queries -

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