

M. Tech. in Software Engineering

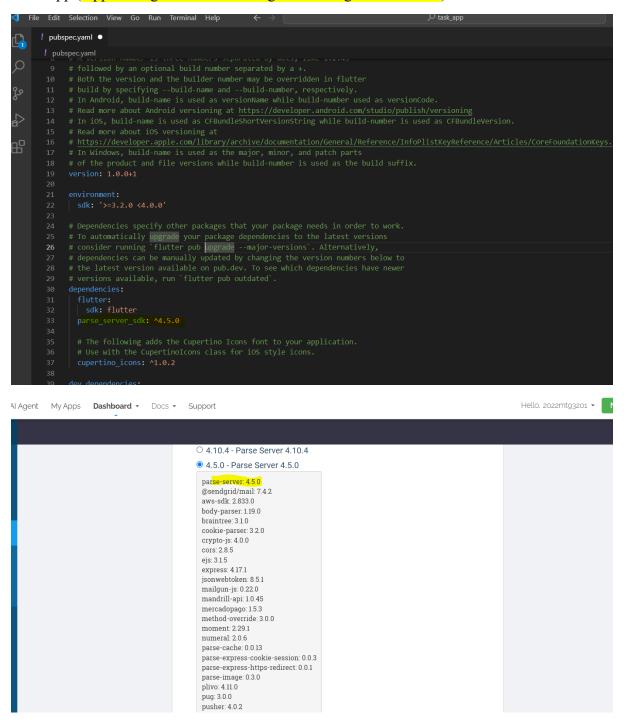
Cross Platform Application Development SEZG585

Flutter App with Back4app Integration

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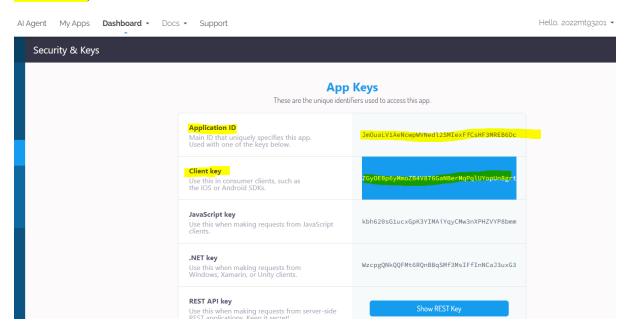
Make sure everything is installed properly by running flutter doctor command.

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

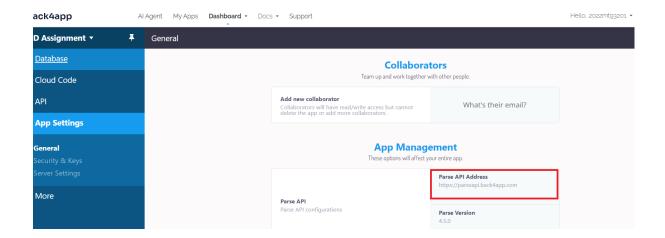


Update the keyApplicationId, final keyClientKey, and final keyParseServerUrl in In main.dart file. This is done so as to make sure connectivity between Flutter Application and Back4app.

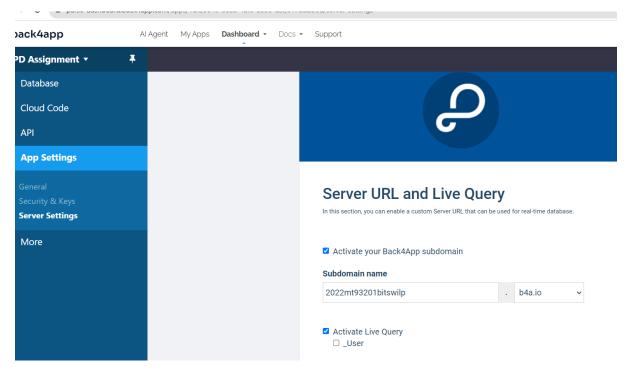
We can get these details from Back4app (App Settings >> Security & keys and App Settings >> General).



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.



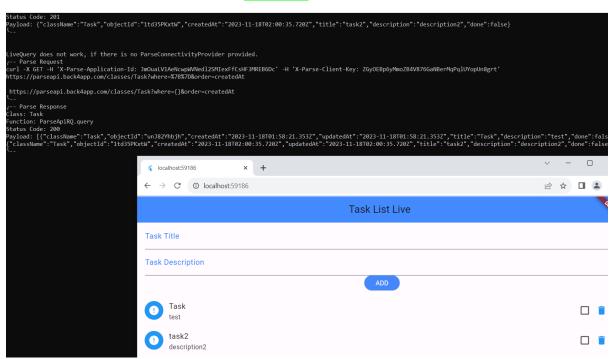
We need to startLiveQuery with CREATE, UPDATE, and DELETE. This is done to ensure that we are able to Make changes while running the application.

```
✓ TASK_APP
                        다 타 가 alib > 🦠 main.dart
                                                         void initState() {
   super.initState();
                                                             startLiveQuery();
                                                        void startLiveQuery() async {
   subscription = await liveQuery.client.subscribe(queryTask);
 > windows
                                                             subscription.on(LiveQueryEvent.create, (value) {
                                                               debugPrint('CREATE: $value ');
taskList.add(value);
streamController.add(taskList);
 gitignore
 ! analysis options.yaml

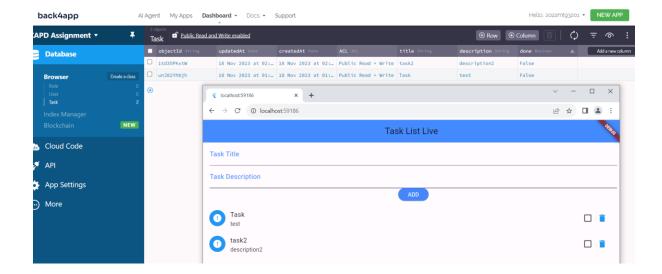
    pubspec.lock

! pubspec.yaml
                                                             subscription.on(LiveQueryEvent.update, (value) {
① README.md
                                                               debugPrint('UPDATE: $value ');
taskList[taskList
                                                                     .indexWhere((element) => element.objectId == value.objectId)] = value;
                                                               streamController.add(taskList);
                                                            subscription.on(LiveQueryEvent.delete, (value) {
   debugPrint(['|PLLETE: $value '|);
   taskList.removeWhere((element) => element.objectId == value.objectId);
   streamController.add(taskList);
```

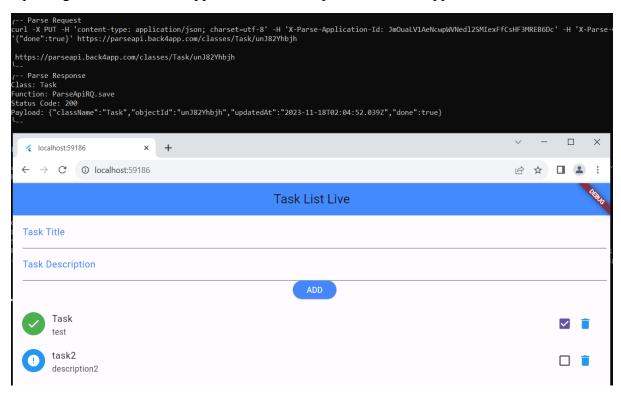
We will execute the code by running flutter run command.

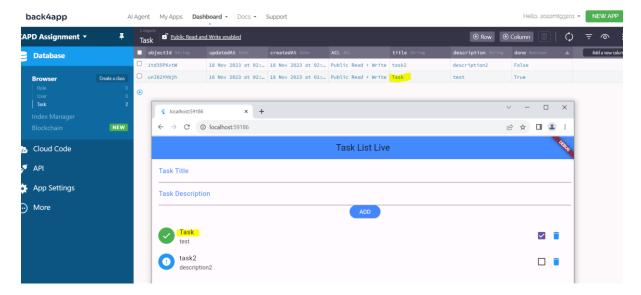


Adding task in Back4App will be update in flutter application.



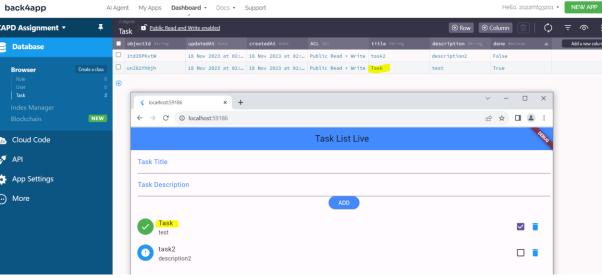
Updating the task in flutter application will be Updated in Back4app.



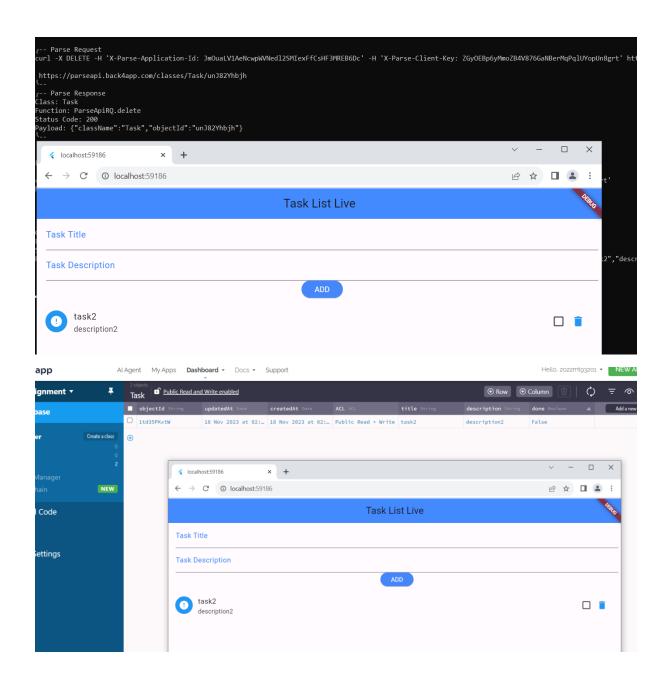


Deleting the task in flutter application will be Delete in Back4app.

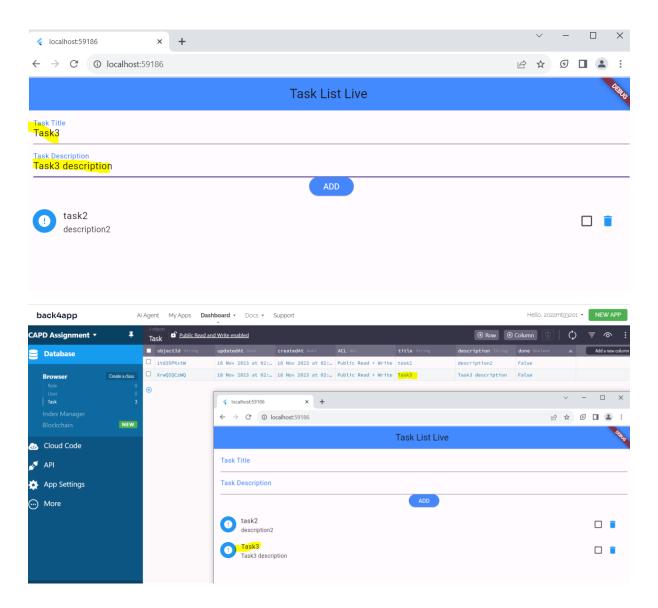
Removing completed task



Object removed with id unJ82Yhbjh



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 -

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