# Cross Platform Application Development Assignment SEZG585 Flutter App with Back4app Integration

Name – Abhishek Murali BITS Student ID – 2022MT13183

Install required dependencies by inspecting using "flutter doctor" command

```
C:\Users\91979\assignment>flutter doctor

A new version of Flutter is available!

To update to the latest version, run "flutter upgrade".

Doctor summary (to see all details, run flutter doctor -v):

(// Flutter (Channel stable, 3.13.8, on Microsoft Windows [Version 10.0.22621.2715], locale en-IN)

(// Windows Version (Installed version of Windows is version 10 or higher)

(!/ Android toolchain - develop for Android devices (Android SDK version 34.0.0)

! Some Android licenses not accepted. To resolve this, run: flutter doctor --android-licenses

(!/ Chrome - develop for the web

(!/ Visual Studio - develop Windows apps (Visual Studio Community 2022 17.7.5)

X Visual Studio is missing necessary components. Please re-run the Visual Studio installer for the "Desktop development with C++" workload, and include these components:

MSV (142 - VS 2019 C++ x64/x86 build tools

- If there are multiple build tools

C++ CMake tools for Windows

Windows 10 SDK

(// Android Studio (version 2022.3)

(// Connected device (3 available)

(// Network resources

! Doctor found issues in 2 categories.

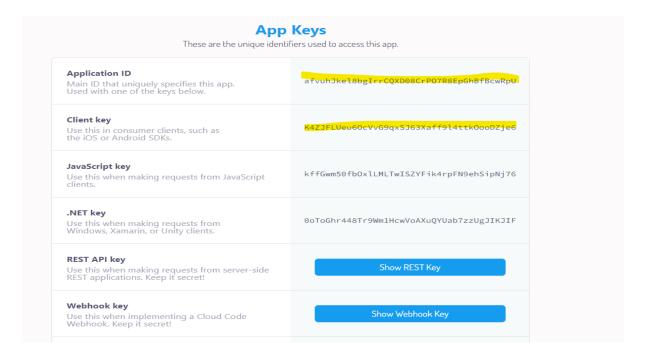
C:\Users\91979\assignment>
```

Make sure to independent parse server sdk flutter sing pubspec.yaml

```
dependencies:
    parse_server_sdk_flutter: ^7.0.0

flutter:
    sdk: flutter
```

### Get Application key IDs from back4app

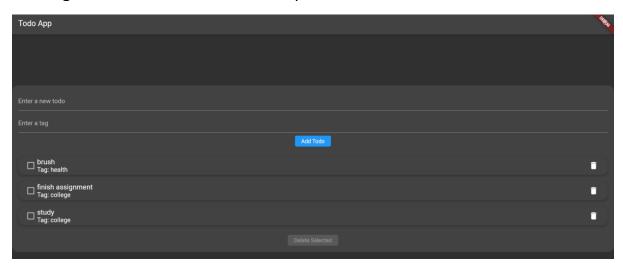


# Add Key IDs to the code in "main.dart"

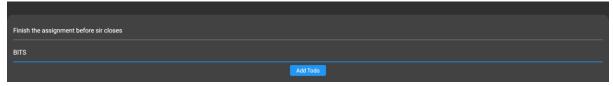
```
import 'package:flutter/material.dart';
import 'package:parse server sdk flutter/parse server sdk flutter.dart';
void main() async {
  WidgetsFlutterBinding.ensureInitialized();
  final keyApplicationId = 'afvuhJkel8bgIrrCQXD08CrPO7R8EpGhBfBcwRpU';
  final keyClientKey = 'K4ZJFLUeu6OcVvG9qxSJ63Xaff914ttkOooDZje6';
  final keyParseServerUrl = 'https://parseapi.back4app.com';
  await Parse().initialize(keyApplicationId, keyParseServerUrl,
      clientKey: keyClientKey, debug: true);
  runApp (MaterialApp (
    home: TodoApp(),
    theme: ThemeData.dark(),
  ));
class TodoApp extends StatefulWidget {
  @override
  _TodoAppState createState() => _TodoAppState();
class TodoAppState extends State<TodoApp> {
  final TextEditingController _ todoController = TextEditingController();
final TextEditingController _ tagController = TextEditingController();
 List<ParseObject>? _todos;
List<ParseObject> _selectedTodos = [];
bool _isSearching = false;
  Coverride
  void initState() {
```

### Use flutter run command and open in Chrome Debug mode

### In Google Chrome the below UI will open



# Add the task in the first tab and the tag in the UI and click on "Add Todo"



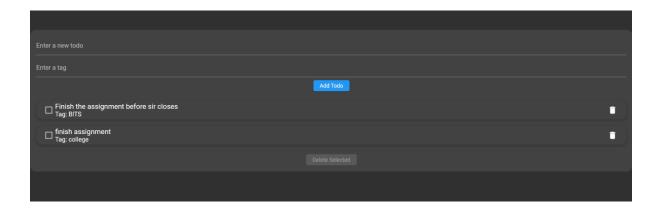
# It will appear in the below list



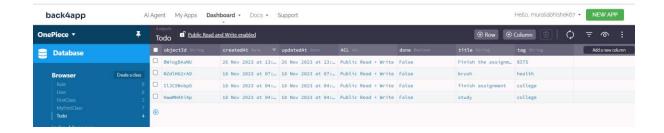
# Search button is on the top right



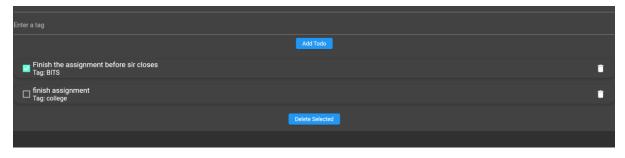
We can search "Finish" and the below table will appear



We can observe in Todo Class in Back4app also these fields would have appeared



Select the todo and delete the todo from the UI



Full code available at

https://github.com/Abhishek-0412/BitsCrossPlatformFlutterAppAssignment