Ex 9 : Upload image & Push notification

Starting date: @2020년 12월 3일

Deadline: @2020년 12월 10일

Instructions

For this exercises you will learn how to upload an image on Firebase and how to receive push notification on your phone (foreground - when you are on the app, background - when you are not on the app). You won't learn how to really send push notifications (just test one) because it's usually done on the server side.

For the first step you will upload the image on the firebase server and then get it with the usual request and show the image. So you will remove the part with you get the path and save it and replace it by uploading the image on Firebase.

One that is done, you will add the push notification on the app. First allow the notifications by getting or asking the permissions then get all the type of notifications and display it like all the other notifications that normally displayed on your phone.

Objectives

- Upload an image on Firebase

- Get push notification permissions

- Get push notification

- Difference between the foreground and background notifications

- Create local notification

Documentation

You don't have to read all the documentation (because it gonna takes a long time) but you can refers to it when you don't know how to do something or when you have issues.

Upload image on Firebase

- https://firebase.google.com/docs/storage/web/upload-files (package) - DOn't forget to check the rules of your storage (just like the rule of the database, the storage also have rules)

Local notifications

- https://pub.dev/packages/flutter_local_notifications (package)

Firebase notifications

- https://pub.dev/packages/firebase_messaging (package)

- https://stackoverflow.com/questions/56199392/how-to-send-a-push-notification-from-the-firebase-console-to-a-specific-gcm-fcm (to send test push notification from Firebase - if you don't understand let me know I will show you how to do it)

Upload it to Firebase storage

Example of how to upload it on Firebase

```
final ref = FirebaseStorage.instance
    .ref()
    .child('user_image')
    .child(authResult.user.uid + '.jpg');

await ref.putFile(file).onComplete;

final url = ref.getDownloadURL();
```