Ex 8 : Native Device Functionalities

Starting date: **@2020년 11월 23일**

Deadline: **@2020년 12월 2일**

Instructions

For this exercises, you will have to add native device functionalities (Camera, GPS, etc).

First you will add the camera on the settings page (when you click on the profile image). Don't forget to add the lines to get the permissions.

For now you won't learn how to upload the image on Firebase (You will learn it in the next exercise). You will just store it on the device filesSystem.

Once you manage to get the camera image, create a popup that ask if the user want to get an image from the device gallery or the device camera. Then try to get an image from the device gallery.

Objectives

- Ask for the permissions
- Use the device camera
- Pick an image from the device gallery
- Get the position with the GPS
- Add a google maps image

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.

Get an image from the camera

- https://flutter.dev/docs/cookbook/plugins/picture-using-camera
- https://pub.dev/packages/camera (package - don't forget the requirement / installation)

Get an image from the gallery

- https://pub.dev/packages/image_picker (package - don't forget the requirement / installation)

Get image path

- https://pub.dev/packages/path (package)
- https://pub.dev/packages/path_provider (package)

Google Maps

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

Store your image and save the path

You can get the image file path then save it. Here is an example :

where you get your image

```
import 'package:image_picker/image_picker.dart';
import 'package:path/path.dart' as path;
import 'package:path_provider/path_provider.dart' as syspaths;

class ImageInput extends StatefulWidget {
  @override
  _ImageInputState createState() => _ImageInputState();
}

class _ImageInputState extends State<ImageInput> {
  File _storedImage;

  Future<void> _takePicture() async {
    // get the image
    final imageFile = await ImagePicker.pickImage(
      source: ImageSource.camera,
      maxWidth: 600,
    );
    setState(() {
      _storedImage = imageFile;
    });
    final appDir = await syspaths.getApplicationDocumentsDirectory();
    final fileName = path.basename(imageFile.path);
    final savedImage = await imageFile.copy('${appDir.path}/$fileName');
  }

    ... builder

}
```