WEATHER APP

Carlos Martinez
Jessenia Piza

Nuestra app...

- Nuestra app contiene:
 - Nombre de la ciudad
 - Temperatura
 - Descripción del clima
 - Sensación térmica
 - Humedad
 - Velocidad del viento
 - Presión atmosférica
- Nuestra app tiene la intención de actualizar estos valores en tiempo real a base de una API.
- Así mismo actualizar el background dependiendo de la descripción del clima





myhomepage.dart



myhomepage.dart

```
child:
Column(
  children: [
    SizedBox(height: size.height*0.05,),
    Row(
      mainAxisAlignment: MainAxisAlignment.spaceAround,
      children: [
        Text('Feels Like', textAlign: TextAlign.center,
        style: GoogleFonts.rubik(color: Colors.white.withOpacity(0.7), fontSize: 18,
        )), // Text
        Text('Humidity', textAlign: TextAlign.center,
        style: GoogleFonts.rubik(color: Colors.white.withOpacity(0.7), fontSize: 18,
       )), // Text
    ), // Row
      mainAxisAlignment: MainAxisAlignment.spaceAround,
      children: [
        Text('${weatherController.feelsLike}°C', textAlign: TextAlign.center,
        style: GoogleFonts.rubik(color: Colors.white, fontSize: 30,
        )), // Text
        Text(' ${weatherController.humidity}%', textAlign: TextAlign.center,
        style: GoogleFonts.rubik(color: Colors.white, fontSize: 30,
        )), // Text
```

weather.dart

```
class Weather
 dynamic id:
 String? name;
 double? temp;
 String? description;
 double? feelsLike:
 int? humidity;
 dynamic windSpeed;
 int? pressure;
 String? main:
 Weather({required this.id,
          required this.name,
          required this.temp,
          required this.description,
          required this.feelsLike,
          required this.humidity,
          required this.windSpeed,
          required this.pressure,
          required this.main});
```

```
Weather.fromJson(Map<String, dynamic> json) {
 id = json['id'];
 name = json['name'];
 temp = json['temp'];
 description = json['description'];
 feelsLike = json['feels like'];
 humidity = json['humidity'];
 windSpeed = json['wind_speed'];
 pressure = json['pressure'];
 main = json['main'];
Map<String, dynamic> toJson() {
 final Map<String, dynamic> data = <String, dynamic>{};
 data['id'] = id;
 data['name'] = name;
 data['temp'] = temp;
 data['description'] = description;
 data['feels like'] = feelsLike;
 data['humidity'] = humidity;
 data['wind_speed'] = windSpeed;
 data['pressure'] = pressure;
 data['main'] = main;
 return data;
```

Weather_controller.dart

```
class WeatherController extends GetxController {
 final id = 0.obs;
 final temp = 0.0.obs;
 final city = .obs;
 final description = '.obs;
 final feelsLike = 0.0.obs;
 final humidity = 0.obs;
 final windSpeed = 0.0.obs;
 final pressure = 0.obs;
 final listCities = [].obs;
 final background = 'assets/backgrounds/clear sky.png'.obs;
 dynamic get id => id.value;
 double get temp => temp.value;
 String get city => city.value;
 String get description => _description.value;
 double get feelsLike => _feelsLike.value;
 int get humidity => humidity.value;
 dynamic get windSpeed => _windSpeed.value;
 int get pressure => pressure.value;
 List<String> get listCities => [... listCities];
 String get background => _background.value;
```

```
// var timer = Timer.periodic(const Duration(seconds: 5), (Timer t) => updateWeather( id.value));
Future<void> initDB() async {
 WeatherDB database = WeatherDB.instance;
   final String response = await rootBundle.loadString('assets/json/city list.json');
   var jsonResponse = convert.jsonDecode(response);
   for (var i in jsonResponse){
     Weather weatherCity = Weather(id: i['id'], name: '', temp: 0.0, description: '', feelsLike:
       database.insertWeatherCity(weatherCity);
     }on Exception catch ( ){
       // ignore: avoid print
       print('Error');
Future<List<String>> listCity() async {
 Database database = await WeatherDB.instance.database;
 List<Map> res = await database.rawQuery(
                                     "SELECT name FROM weather city");
 return List<String>.generate(res.length, (i) {for (var q in res){q['name'];}return '';});
```

Weather_controller.dart

Weather_client.dart

```
class WeatherClient {
 static const baseUrl = "https://api.openweathermap.org/data/2.5/weather";
 static const appid = "d5abe3d816a237c5f52019701508dd84";
 final dynamic id;
 WeatherClient(this.id);
 Future<Weather> getWeather() async {
   var uri = Uri.parse(baseUrl)
       .resolveUri(Uri(queryParameters: {
     "id": id.toString(),
     "units": "metric",
     "appid": appid
   }));
   try {
     final response = await http.get(uri);
     if (response.statusCode == 200) {
       var jsonResponse = convert.jsonDecode(response.body);
       dynamic id = jsonResponse['id'];
       String name = jsonResponse['name'];
       var weatherDescription = jsonResponse['weather'];
       String main = weatherDescription[0]['main'];
       var description = weatherDescription[0]['description'];
       double temp = jsonResponse['main']['temp'];
       double feelsLike = jsonResponse['main']['feels_like'];
       int humidity = jsonResponse['main']['humidity'];
       dynamic windSpeed = jsonResponse['wind']['speed'];
       int pressure = jsonResponse['main']['pressure'];
       Weather weather = Weather(id: id, name: name, description: descripti
       return weather;
       else {
       return Future error([]).
```

weather_db.dart

```
Future<Database> _openDB() async{
  return openDatabase(
   join(await getDatabasesPath(), 'weather_database.db'),
   onCreate: (db, version) async {
     // return await db.transaction((txn) async {
              await txn.execute('''
             CREATE TABLE weather city(id INT PRIMARY KEY, name TEXT)
     return db.execute(
       "CREATE TABLE weather city(id INT PRIMARY KEY, name TEXT)",
   version:1,
Future(void> insertWeatherCity(Weather weatherCity) async {
 final db = await instance.database;
  await db.insert(
   'weather city',
   weatherCity.toMap(),
   conflictAlgorithm: ConflictAlgorithm.replace,
```

```
Future<List<String>> weatherCity() async {
  final db = await instance.database;
  final List<Map<String, dynamic>> maps = await db.query('weather city');
  return List.generate(maps.length, (i) {
   return maps[i]['name'];}
Future<void> updateWeatherCity(Weather weatherCity) async {
  final db = await instance.database;
  await db.update(
    'weather city',
    weatherCity.toMap(),
    where: "id = ?",
   whereArgs: [weatherCity.id],
Future<void> deleteWeatherCity(int id) async {
  final db = await instance.database;
  await db.delete(
    'weather city'.
    where: "id = ?",
    whereArgs: [id],
Future close() async {
```