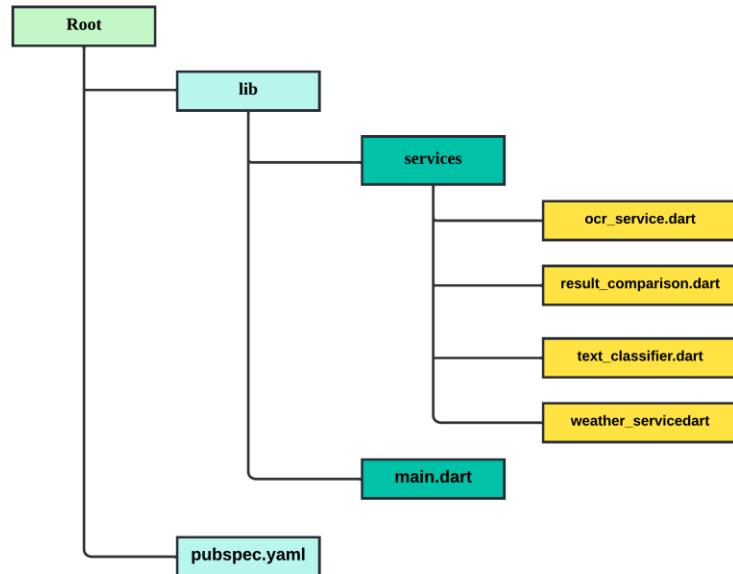


OCR APP DOCUMENT

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Project Structure



Responsibilities of Each File

1. **pubspec.yaml**

Contains all the dependencies required for the project.

2. **ocr_service.dart**

Extracts text data from images and returns the extracted text.

3. **text_classifier.dart**

- Classifies text to determine if it is related to weather data.
- Maintains a list of words related to weather.
- Calculates the probability of the text being weather-related.
- If the probability is zero, it returns nothing. Otherwise, it extracts temperature and humidity using regular expressions.

4. **weather_service.dart**

- Sends coordinates to a weather API and retrieves temperature data for the given location or city.

5. **result_comparison.dart**

Compares the results obtained from the API with the text extracted from the image.

6. **main.dart**

Handles the UI design and coordinates the function calls for better comparison of results.

Instructions for Local Gradle Testing

Local Gradle Testing Guide

1. Clone the Project

Clone the repository to your local machine:

```
git clone https://github.com/tauhidhasan811/ocrapp.git
```

2. Configure OpenWeather API Key

Open the `weater_service.dart` file and add your OpenWeather API key:

```
final String apiKey = "YOUR_API_KEY";
```

3. Configure Gradle Wrapper (Default Setup)

Edit the file:

```
<project-root>\gradle\wrapper\gradle-wrapper.properties
```

Set the distribution URL:

```
distributionUrl=https://services.gradle.org/distributions/gradle-8.12-all.zip
```

***By default this path set.**

4. Build the Project

Run the following command from the project root (**on terminal**):

```
gradlew.bat build
```

⚠ If the Gradle distribution fails to download automatically, follow the manual setup steps below.

Manual Gradle Setup

Step 1: Download Gradle

Download `gradle-8.12-all.zip` from the official releases: <https://gradle.org/releases/>

Step 2: Save Locally

Place the downloaded file in a local directory, e.g.:

```
C:\<user-name>\.gradle\wrapper\dists\gradle-8.12-all.zip
```

Step 3: Update gradle-wrapper.properties

Open:

```
<project-root>\gradle\wrapper\gradle-wrapper.properties
```

Replace the distribution URL with the local file path:

```
distributionUrl=file:///C:/<user-name>/.gradle/wrapper/dists/gradle-8.12-all.zip
```