CITIES WEATHER

MOBILE COMPUTING

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Cities Weather System is composed of one main component:

Used by users to manage a personalized list of Portuguese cities, consult current weather conditions, view forecasts, and analyze past weather trends through interactive visualizations.

WEATHER APP

ARCHITECTURE

Shared Preferences

What is it?

Is a Flutter plugin (library) that allows you to store simple data locally on the device in the form of key-value pairs. In our case the key is "favorite_cities".
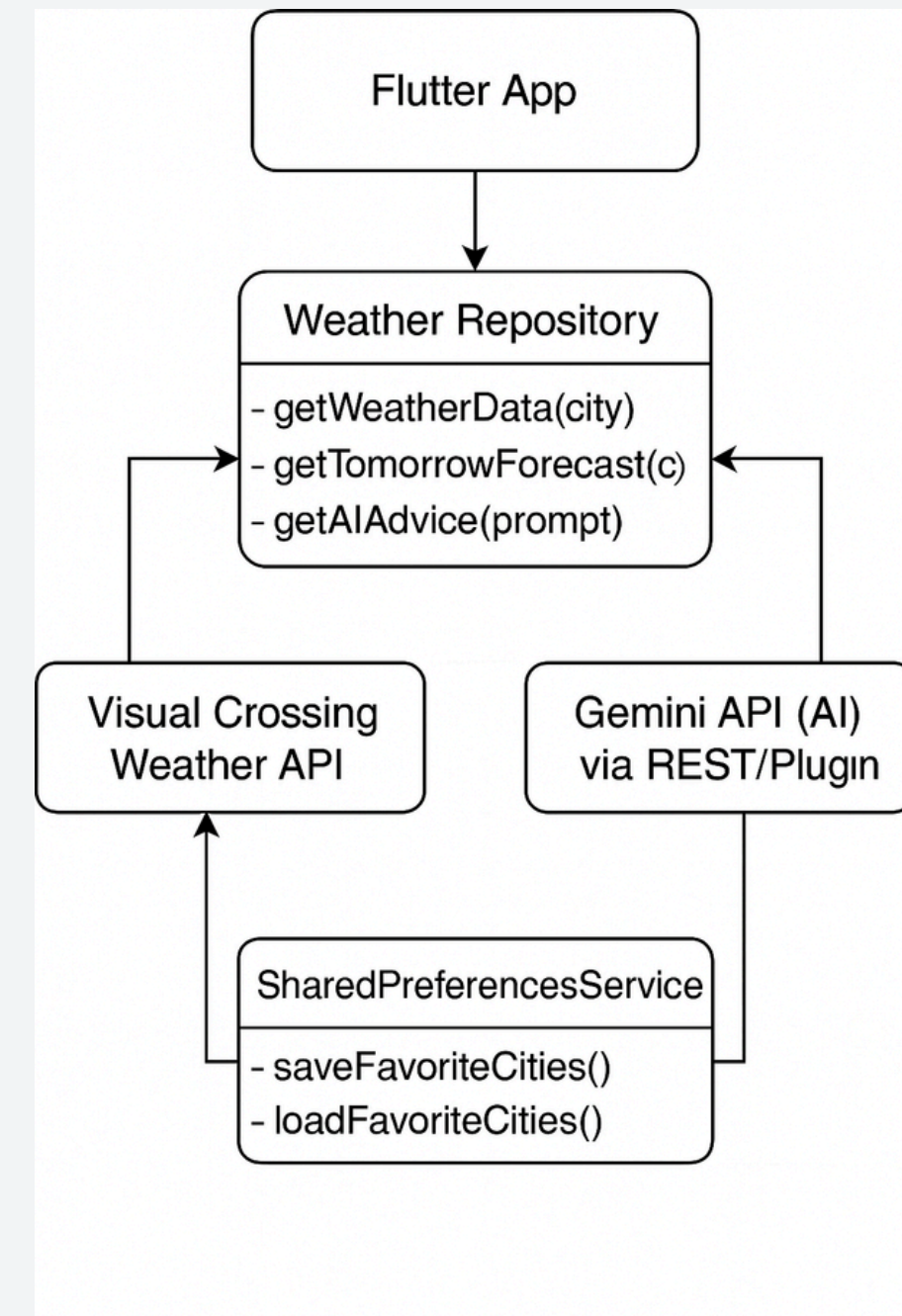
Used for:

Saving the user's favorite cities locally.

Main Methods:

loadFavoriteCities() → Retrieves saved cities

saveFavoriteCities(String city) → Adds a new city

removeCity(String city) → Removes a city

03 MAIN FEATURES IMPLEMENTED

User-managed list of Portuguese districts for weather monitoring

Add or remove cities of interest at any time

View current weather conditions (temperature, pressure, precipitation, wind, humidity)

Check next-day forecast

Display historical trends of meteorological data from the past week using graphical visualization

04 ADITIONAL FEATURES

Use of AI

Use of the gemini API to get recommendations based on the current forecast

LIVE DEMO

LIVE DEMO