DVT Weather App Assessment

Please complete the following:

Create a weather application to display the current weather at the user's location and a 5-day forecast.

Requirements:

1. You are required to implement one of 2 designs, the Forest design or the Sea design (see iOS Screen Designs or Android Screen Designs folders). You can choose either one.

2. The forecast must be based on the user's current location.

3. The application should connect to the following API to collect the weather information.

4. https://openweathermap.org/current

5. https://openweathermap.org/forecast5

6. You will be required to change the background image depending on the type of weather (Cloudy, Sunny and Rainy). Please use the provided assets and icons.

7. Please demonstrate best practices - including but not limited to,

    a. Architecture

    b. Design Patterns

    c. Unit Testing (TDD Preferential)

    d. Proper use of the SOLID principles

    e. Integration into a CI/CD build pipeline

    f. Code coverage integration

    g. Static code analysis

    h. Please note these are additional requirements, complete the ones you are comfortable with to demonstrate your knowledge and experience

8. Please also take some initiative and implement some additional features like,

    a. The ability to save different weather locations as favourites

    b. The ability to view a list of favourites

    c. The ability to get extra information about a specific location

    d. Using something like the Google Places API - https://developers.google.com/places/web-service/intro

    e. The ability to see weather information while the application is offline (show time last updated etc)

    f. Allow the user to view saved locations on a map

        i. Meaning the user should be able to access a map and see all the weather locations they have saved as favourites and where they are now.

It is up to you to solve this problem using any technology/libraries you want to use. We will be assessing not just your ability to code, but your coding style as well. Please make sure to submit your best attempt at the problem – don't be afraid to show off if you have the time!

Please host your solution to a Git repository hosted on either Github, Bitbucket or GitLab.
Incrementally add work to the main branch of your repository using a git branching strategy of your choice.

Please send through the link to your solution to the recruitment consultant you dealt with during your process.

9:41 AM   100%

25°

SUNNY

19°
min

25°
Current

27°
max

Tuesday	☀	20°
Wednesday	☀	23°
Thursday	☀	27°
Friday	☀	28°
Saturday	☀	30°

9:41 AM   100%

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SUNNY

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