

iOS test exercise (weather app + CoreData).

Weather App

Using the OpenWeather weather API (<https://openweathermap.org/api>), build a sample iOS app which shows the current weather in the following cities: London and Paris. Design is [here](#).

You should display the following data displayed for each city:

- Temperature,
- Humidity,
- Sunset and sunrise times.

e.g.

London 22oC, 76% humidity. Sunrise: 07:22; sunset: 16:09.

Paris 25oC, 66% humidity. Sunrise: 07:22; sunset: 16:09.

...

Please:

- Don't spend hours and hours on it! We'd like to see if you can build out the structures necessary for a simple app in a clean and extensible way, in a reasonable amount of time.
- Use Swift.
- Assets are downloadable from Figma.
- Handle errors appropriately (e.g. no network).
- The layout in the design should adapt for all variations of screen sizes - including iPad in both orientations, and in split screen (where the screen shape can be anything from tall and thin to square, next to the other visible app).
 - Generally when the app is shown in landscape please use the landscape design (two panels side-by-side), and for portrait use the portrait layout (two panels vertically).
- **Save the weather data with CoreData so that on subsequent launches it is available on launch without a network request.**
 - **Perform the network request and data saving in the background while showing cached data, and update the UI with refreshed data once it is available.**
- Treat the project as if it a starting point for a real product - think in terms of adaptability and extensibility as if were planning to add more features in the future (e.g. what if our weather API response structure changes in the future?)
- If there's something 'nice-to-have' you'd like to implement but feel it would take too much time, leave comments outlining what you might have done.
- Provide comments to explain your decisions if something is not particularly self-evident.
- Make assumptions if there is something you are not sure about - and please document your assumptions!
- When you're finished, please either:
 - Zip up your project and email it to olivia@touchnote.com, or
 - Upload your project as a public GitHub repo and send us the link.