2-2 Assignment: User Components and Data

CS 360 Mobile Architect and Programming

Nicholle Caudy

5/13/2025

The 1Weather app displays the weather for the user’s location and any city they wish to choose. The home screen displays the outside temperature and what temperature it feels like for the user’s current location. The user can add a location they would be interested in seeing the weather for. The locations are shown at the top of the screen, enabling the user to navigate between different cities easily. Along the bottom of the screen there are tabs labeled “Today,” “Forecast,” and “Radar.” The app opens with the "Today" tab selected. When switching to the “Forecast” tab you have the options to see the forecast for the selected city daily, hourly, or weekly. This includes chances of precipitation each day and hourly. When selecting the “Radar” tab the app loads the weather radar for the selected city for a time lapsed hour. There is also a hamburger menu button to select that allows the user to set preferences for warnings and alerts notifications, the units the user would prefer their weather be displayed, the app theme (light or dark), how often to auto- refresh (toggle switch), and whether to use the device’s current location (toggle switch). You can also manage locations, add the premium offer, and add widgets.

The data sources for this app include Maps provided by Google, Radar/ cloud layers provided by WDT, and 12-forecast provided by Weather2020. According to [Where do you get the data for 1Weather? – OneLouder Support\_English](https://support.onelouder.com/hc/en-us/articles/203931620-Where-do-you-get-the-data-for-1Weather) the 1Weather app is using DTN WeatherOps as the apps weather data provider. The user also provides data by allowing the app to access the device’s current location or search and select various locations for those locations weather details. The user also has the option to stop the app from selling or sharing their personal location and limit use/disclosure of sensitive personal information.

The data provided by this app assists users in planning their day by determining appropriate clothing, considering departure times during inclement weather, organizing vacation activities, or scheduling family weekend activities. The app also allows users to keep track of weather in other cities to see what is happening where a family member lives or for upcoming travel. Users can watch the radar to see how far away sever weather is and when it will reach their area. The app also allows users to track minute to minute precipitation. The app informs users of severe weather watches and warnings, including start and end times, and the areas that may be impacted. The app, however, does send an unnecessary number of notifications, upwards of every 15 minutes for the same weather notification.

References

[Where do you get the data for 1Weather? – OneLouder Support\_English](https://support.onelouder.com/hc/en-us/articles/203931620-Where-do-you-get-the-data-for-1Weather)