# ERTICAST

# **Group 10's Usability Testing**

# Testina:

We conducted a Heuristic Evaluation with 3 evaluators from our development team, below are their evaluations:

# 1. Visibility of System Status:

- a. The app ran smoothly, with no actions taking time that would make me wonder whether the app froze or not.
- b. The app occasionally took a bit too long while searching locations, however, this was rare and did not impact my experience much.
- c. No issues with any indicators, the app's current state was clear at all times.

#### 2. Match to Real World:

- a. The app uses familiar weather-related vocabulary and icons, such as the magnifying glass for searching.
- b. I'd like to see a compass showing the wind direction.
- c. The concept of a 'Home' feels weird in the context of a weather app.

#### 3. User Control and Freedom:

- a. The home button is always visible, making it easy to return to the home screen.
- b. I can always use the home button or just quit the app and relaunch it.
- c. N/A

#### 4. Consistency and Standards:

- a. Finding all icons in the bottom bar rather than in a side burger menu makes the app feel a little dated, but ultimately it is just a matter of preference.
- b. The design language is very clear and consistent.
- c. The app is consistent, however I found two typos in the UI.

# 5. Error Prevention:

- a. The app suggests locations as a form of autofill on the search screen.
- b. The app does not let you do anything that could cause an error, however that is just a result of the app not taking many possible inputs from users.
- c. I accidentally deleted a location from my Favourites and had to find it manually again instead of being able to undo the action.

#### 6. Recognition > Recall:

- a. The app communicates clearly, with standard, easy-to-understand icons.
- b. Having the weather symbols in colour rather than plain white would help recognise the weather conditions at first glance.
- c. The 'add' button should be green and the 'remove' button should be red to avoid user confusion and improve recognition.

# 7. Flexibility for Efficient Use:

- a. The app allows users to bookmark their favourite locations.
- b. Since this is a simple mobile app, there are no complex inputs that the power-users would need to speed up.
- c. There is no such thing as an 'expert user' for a simple weather app.



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#### 8. Aesthetic and Minimalist Design:

- a. The design shows you just what it thinks you need, nothing more, nothing less. However, I would appreciate at least a bit of customizability.
- b. The home screen shows you the most important metrics (although it doesn't allow customisation), if you need anything else, you just scroll down and get the details.
- c. Very lightweight interface.

## 9. Error Recovery

- a. If your location cannot be found, the app informs you that it could not find anything.
- b. The search error screen should tell me to check for typos, I accidentally made one when searching for a location without and got confused when I was told that "we don't know where that is".
- c. The search results clearly inform you if your query is invalid.

## 10. Help and Documentation:

- a. The app should offer at least some minimal explanation about some of the metrics, e.g. what does "UV index: moderate" mean.
- b. Since this app is a very standard weather app in its core, there is no need for any additional documentation or a manual.
- c. No need for documentation since users are used to using weather apps.

Based on the reports, we made a few minor changes regarding the UI design, such as using more meaningful colours and eliminating typos. We also added a "Recommended" section that appears if the user location search fails. We've also added the option to undo your actions, which is a useful form of error prevention.

# Deviations from our lo-fi design:

Our testing of earlier versions found that our animated backgrounds for different weather conditions distracted the users from the actual data, which ultimately made us replace the idea of a dynamic background with a static one picturing a mountain. At the beginning of our implementation, we came to the conclusion that our team had much greater experience with front-end development in React Native, and therefore chose to adopt this, keeping the originally planned Java backend connecting to Open-Meteo API. This allowed us to create the user experience in a more intuitive way, utilising the power of components. React Native apps are also generally considered to be lightweight with smaller load times, which allowed us to improve the user experience.