

Task 3: Implementing a High-Fi Prototype

Heuristic Evaluation

System status: all processes take less than 200ms so no special indicators are required.

Match to the real world: We are using pictographic icons as they are able to transcend language barriers.

User control and freedom: There's an easily accessible home page which allows users to not feel suffocated by the burden of an individual page.

Consistency and standards: Due to minimal text and images, ambiguity has been reduced exponentially, which means the user is unlikely to get confused.

Error Prevention: There are no user entered fields, instead we have opted for drop down boxes so that errors cannot occur.

Recognition rather than recall: By only showing the most important information and having multiple screens means that the user is not expected to overload their memory.

Flexibility and efficiency of use: We opted for buttons instead of swiping to allow for fast transitions between pages as transitions do not need to be long.

Aesthetic and minimalist design: By abstracting all details which are not necessary for the user, we have made a very minimalist design.

Possible Problems:

- We have not provided a light/dark mode functionality. This is mainly a cosmetic problem, as some users may prefer the aesthetics of a dark background. However, this could become a minor usability issue with visual impairments, dyslexia, or other disabilities who may prefer a visual cue to signify that the sun has set, or to make text and images clearer.

Help users recognise and recover from errors: There are no reachable errors by the user and hence error messages aren't necessary.

Help and documentation: By using icons, the app doesn't require documentation and is self explanatory with a shallow learning curve.

Possible Problems:

- Temperatures are displayed in Celsius, which could be confusing for a minority of users who may be accustomed to Fahrenheit. This is a minor usability problem that could be resolved by adding functionality in settings to convert between Celsius and Fahrenheit.

Rankings:

Not a usability problem

Cosmetic problem only

Minor usability problem

Major usability problem

Usability catastrophe

Did you need to deviate from your lo-fi design in any other way? If so, why? (150 words max)

Yes, we made a few changes from the lo-fi design. Instead of swiping between pages, we used buttons as this felt more natural given the input modality and how people were actually interacting with the device. The layout also ended up a bit different. We tried out a few variations and landed on one that just felt clearer and easier to use, rather than sticking rigidly to a specific grid. We also added a few extra fields to the settings page to make it more useful based on what users actually needed.