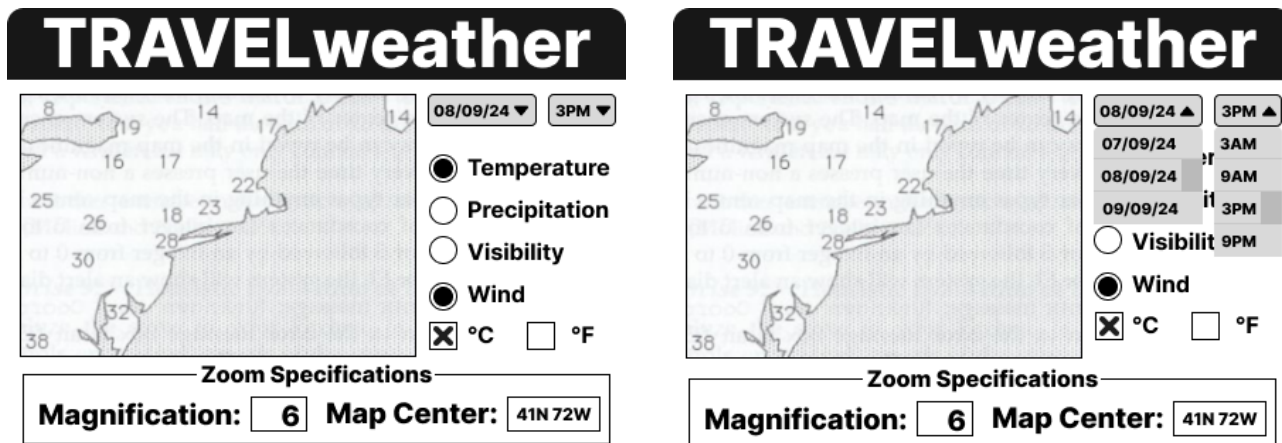# Greining og hönnun hugbúnaðar
Problem Solving Assignment 3

Problem 1: Date and Time

The first problem we saw with this design is that it signifies nowhere what dates are available to the user. They would have to manually input the dates and get an error until they get it right. Our solution to this problem is to make the date and time of the weather report a drop-down menu, and only show available dates. This states to the user what dates are available here.
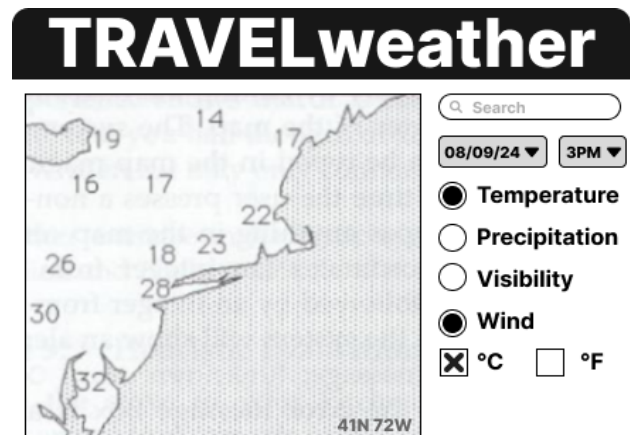
In our opinion this is a major problem, since a user could insert a date 3 days in the future and get an error message. We personally would think that this would be an error.

Problem 2: Magnification and Coordinates

There are very few users that use magnification and coordinates to use a map. Instead we added a search bar where you can either search for a location or insert coordinates and it will navigate you to it. Magnification is a statistic that no one needs to know so we will not implement it in our design, but rather consider the map being a zoom and move feature using finger gestures.
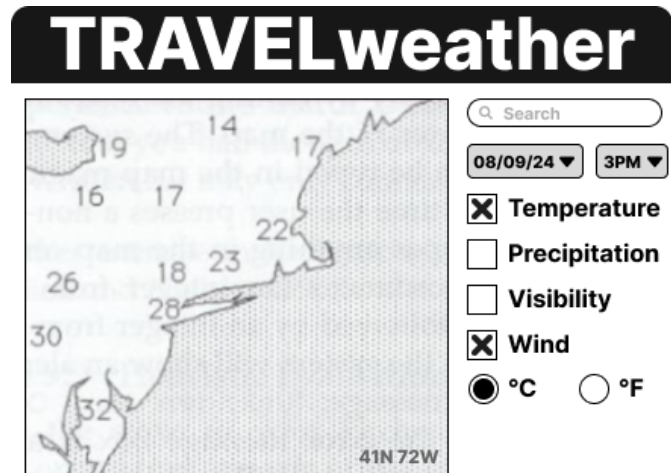
The severity of this problem is not as severe as the previous so we will mark it as a considerable problem. It does not make a significant improvement to the website but removing that element can give us more space for the map and gives us a cleaner look on the website. Having unnecessary buttons will make it seem more complicated to use.
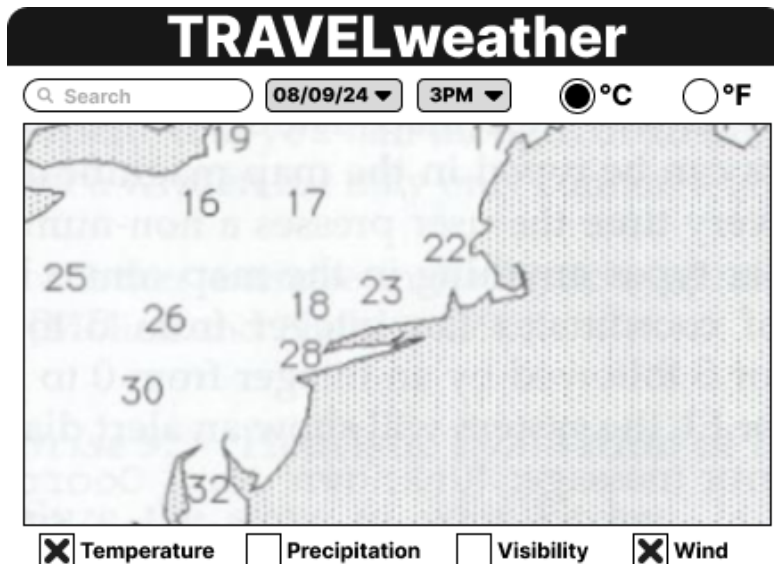
Problem 3: Multiple Choice and Radio Buttons:

Being able to only select one of the following: temperature, precipitation, visibility and wind is not optimal. A majority of users need to see multiple statistics of the destination they plan on visiting. Always switching between f.x. Temperature and wind are not optimal. Furthermore, users either use celsius or fahrenheit, never both. So we will be switching those to radio buttons.

Users prefer to be able to see multiple statistics of their destination, so only being able to show a single statistic at a time will hinder them from using the website. That is why this is a major problem.

Problem 4: Layout

Using the website on a phone could be frustrating. The small map needs to be visible on a smaller screen and having all those options on the side takes up too much space. Moving those elements to the top, below the title or below the map, will free up space for the map to cover up more of the screen.
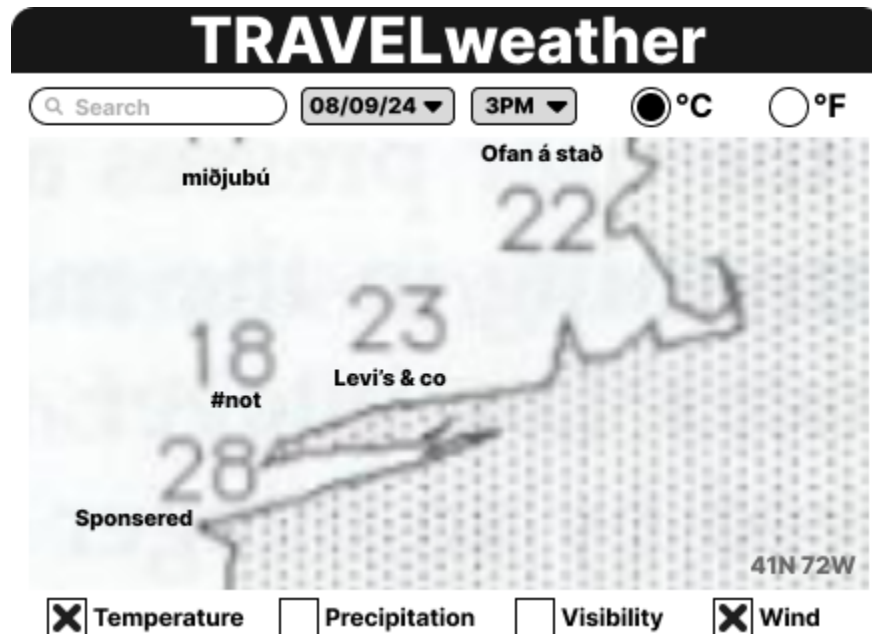
Having a difficult time using the website on your phone is a major problem. Our solution fixes that problem and also gives the website a cleaner look.

Problem 5: Name of places

Having no names of locations on the map will make it harder to identify where you are located. We added in the names of the places onto the map to make it easier to identify where you are.

This is a major problem because a handful of users don't know the exact location of their destination, so implementing the names into the map will make it easier to mark where they're headed, while also making it easier to identify where you are.

Interactive Problem 5 Frame in Figma

List of Prototype Features:
1. <u>Search bar</u>
   a. Not writable, but interactive by click to open and closing.
2. <u>Dropdown menu for date and time</u>
   a. Can drop down, but not selectable.
3. <u>All buttons are useable</u>
4. <u>Draggable map</u>
   a. Zoom has not yet been implemented