Product Requirements

Team   RIT Climate Awareness Team

Project statement

We, the RIT Climate Awareness Team, aim to raise awareness among RIT students about the impact of climate change, specifically how it affects their lives as Rochester residents. Our goal is to create a tool called the Climate Comparison Tool, which will display current weather data in Rochester and compare it to historical weather data (from 10, 20 years ago). A successful implementation will function as a weather forecasting program, offering users insight into the effects of climate change on their local environment. Additionally, it will provide suggestions on how they can contribute to combating climate change.

Problem Statement:

Climate change is a global issue, but its effects can be felt locally. Many RIT students and staff may not fully understand how Rochester's climate has changed over time due to global warming. The Climate Comparison Tool will address this problem by offering an easy way to compare past and present weather conditions in Rochester. By providing this historical comparison and actionable advice on how to reduce their carbon footprint, the tool encourages users to engage in efforts to mitigate climate change.

Users profile

The intended users of the Climate Comparison Tool are RIT students and staff, who need to access weather information regularly for daily or weekly planning. The tool is designed to be convenient and user-friendly, providing real-time weather data alongside insights into climate change. Users will typically:

- Have basic experience with web browsers and applications.

- Regularly check weather forecasts and want easy access to this information.

- Be interested in understanding the local impact of climate change.

- Be willing to take actions, based on the suggestions provided, to help fight climate change.

Feature requirements (user stories)

No.	Feature	Description
1	Display a Welcome Message	Show a welcome message when the user opens the app (e.g., "Welcome to the Climate Comparison Tool!").
2	Display Current Date and Time	*Show the current date and time alongside the weather data.*
3	View Current Weather	Users can check the current weather in Rochester (e.g., temperature, weather conditions).
4	Historical Weather Comparison	*Users can compare today's weather with the weather from 10 years ago (basic temperature and weather data).*
5	Basic Climate Change Fact	Show a simple fact about climate change when users check the weather (e.g., "Rochester's temperature has increased by 2°C").
6	Simple Weather	Users can view the next 3 days of weather forecasts (temperature and conditions).
7	*Climate Action Tips*	Users get simple tips on how they can help fight climate change (e.g., reduce water usage, recycle more).
8	Change Temperature Unit	Users can switch between Fahrenheit and Celsius for the weather data.
9	Change App Theme	Users can switch between light and dark modes for the website's appearance.
10	Feedback Button	Add a simple feedback button where users can say if they find the tool helpful (e.g., "Did you find this helpful? Yes/No").