Sophia Yonus

Final Project - Programming Usable Interfaces

Yi-Hao Peng

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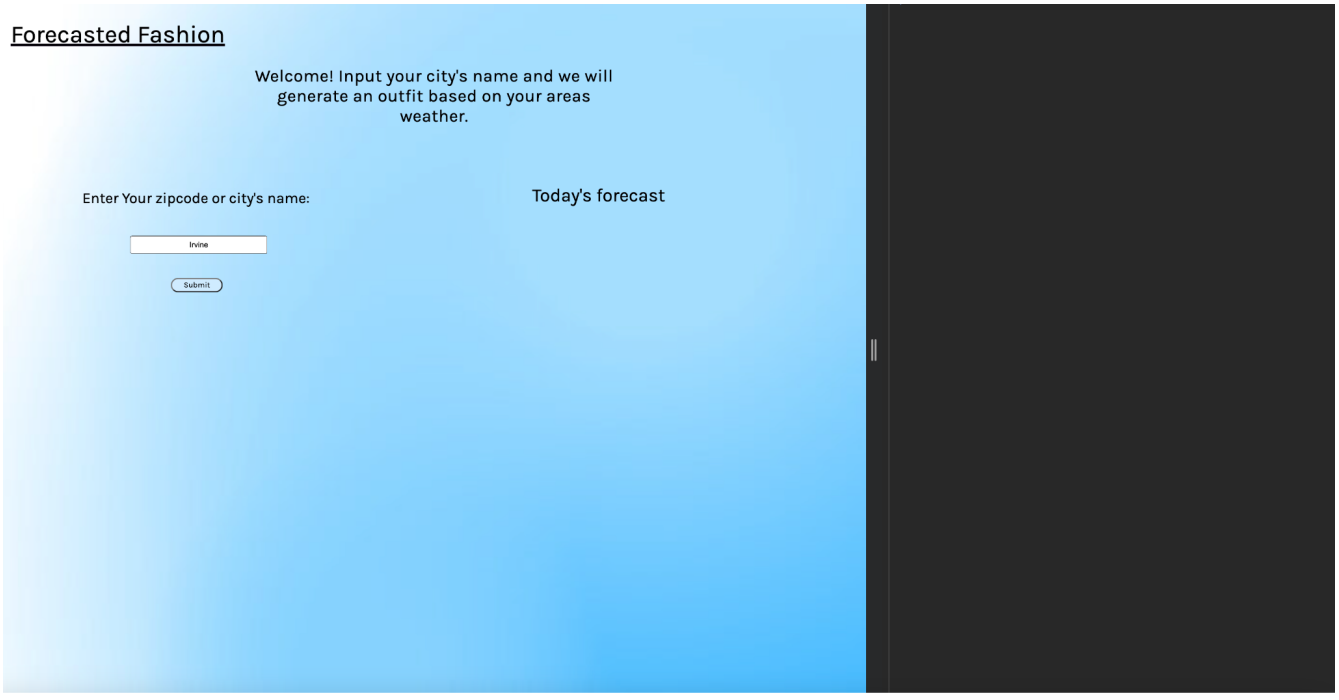
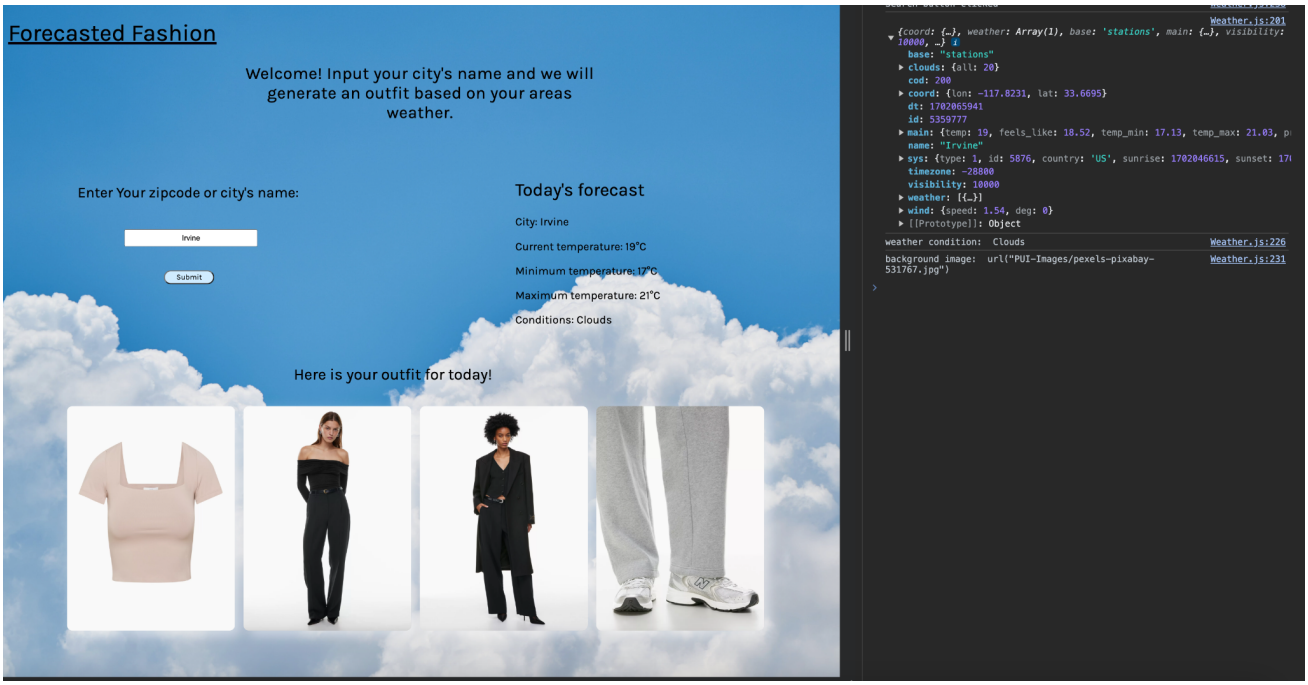
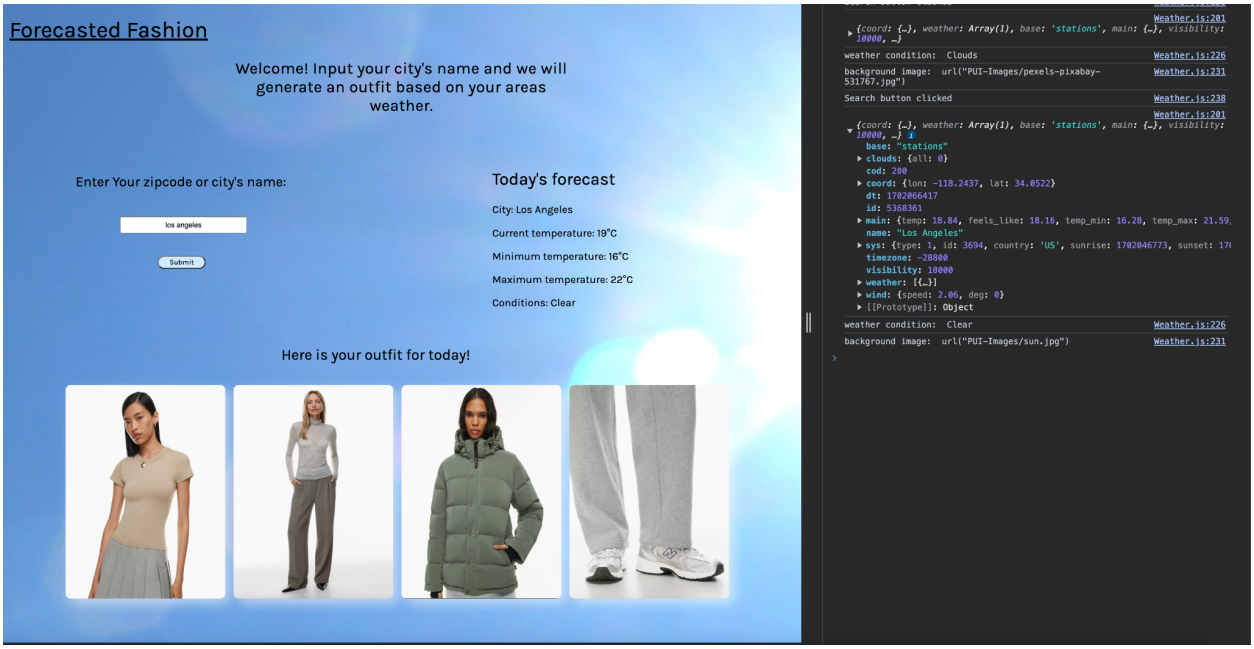
Forecasted Fashion - Generates outfits based on the weather of the user's location

The screen sizes to interface would be 1500×1200 for the desktop version and 400×700 for the mobile version.

Summary and Details




Forecasted Fashion
Welcome! Input your city's name and we will generate an outfit based on your areas weather.
Enter Your zipcode or city's name:
Irvine
Submit
Today's forecast
City: Irvine
Current temperature: 19°C
Minimum temperature: 17°C
Maximum temperature: 21°C
Conditions: Clouds
Here is your outfit for today!
{coord: {…}, weather: Array(1), base: 'stations', main: {…}, visibility: 10000, …}
base: "stations"
clouds: {all: 20}
cod: 200
coord: {lon: -117.8231, lat: 33.6695}
dt: 1702065941
id: 5359777
main: {temp: 19, feels_like: 18.52, temp_min: 17.13, temp_max: 21.03,
name: "Irvine"
sys: {type: 1, id: 5876, country: 'US', sunrise: 1702046615, sunset:
timezone: -28800
visibility: 10000
weather: [{…}]
wind: {speed: 1.54, deg: 0}
[[Prototype]]: Object
weather condition: Clouds
Weather.js:201
Weather.js:226
background image: url("PUI-Images/pexels-pixabay-531767.jpg")
Weather.js:231


Forecasted Fashion
Welcome! Input your city's name and we will generate an outfit based on your areas weather.
Enter Your zipcode or city's name:
los angeles
Submit
Today's forecast
City: Los Angeles
Current temperature: 19°C
Minimum temperature: 16°C
Maximum temperature: 22°C
Conditions: Clear
Here is your outfit for today!
{coord: {…}, weather: Array(1), base: 'stations', main: {…}, visibility: 10000, …}
weather condition: Clouds
Weather.js:201
Weather.js:226
background image: url("PUI-Images/pexels-pixabay-531767.jpg")
Weather.js:231
Search button clicked
Weather.js:238
{coord: {…}, weather: Array(1), base: 'stations', main: {…}, visibility: 10000, …}
base: "stations"
clouds: {all: 0}
cod: 200
coord: {lon: -118.2437, lat: 34.0522}
dt: 1702066417
id: 5368361
main: {temp: 18.84, feels_like: 18.16, temp_min: 16.28, temp_max: 21.59,
name: "Los Angeles"
sys: {type: 1, id: 3694, country: 'US', sunrise: 1702046773, sunset:
timezone: -28800
visibility: 10000
weather: [{…}]
wind: {speed: 2.06, deg: 0}
[[Prototype]]: Object
weather condition: Clear
Weather.js:226
background image: url("PUI-Images/sun.jpg")
Weather.js:231

Part 1

Forecasted Fashion serves an important purpose by not only providing users with up-to-date weather information in their specific location but also by offering inspiration for well-coordinated outfits. In the hustle and bustle of morning routines, where time is important, individuals often turn to weather apps for a quick update on the day's forecast. However, the challenge lies in efficiently putting together a stylish and presentable outfit in a short span of time.

This interactive website, Forecasted Fashion, addresses this common dilemma with its outfit generation feature. By seamlessly integrating weather data from the OpenWeatherMaps API with fashion suggestions from Aritzia, the website becomes a valuable tool for users who seek both insights about the weather and wardrobe inspiration. The interface showcases the city, its weather, including minimum and maximum temperatures and overall conditions. Simultaneously, it curates a diverse array of outfit options, encompassing shoes, pants, shirts, and jackets. If the user is unsatisfied with the outfit presented, they are able to click “Submit” again and it generates a new outfit. There are unlimited clicks for the “Submit” button.

What sets Forecasted Fashion apart is its relevance to a broad audience. Targeting individuals of all genders who encounter the daily challenge of assembling a presentable ensemble, the platform recognizes the universal struggle for time efficiency and organization in the mornings. Whether it's a professional preparing for work or a student getting ready for classes, Forecasted Fashion caters to diverse lifestyles.

While the project currently highlights and integrates women's clothing, its underlying concepts such as color schemes, clothing pieces, styles, and textures offer inspiration that surpasses gender boundaries. Thus, Forecasted Fashion emerges as an engaging and inclusive solution, playing a part and assisting users in the way users approach their mornings and navigate the intersection of weather awareness and personal style.

Part 2

Steps to use Forecasted Fashion:

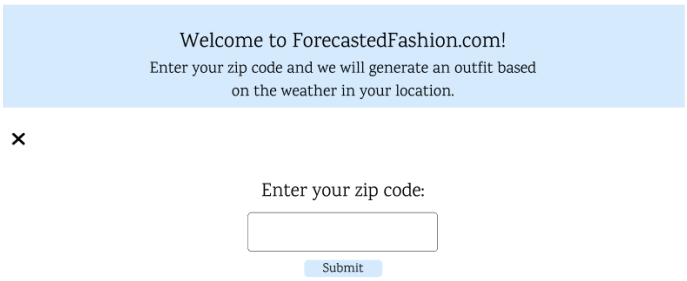
- Open the Forecasted Fashion page.
- Type in your location or any city you desire in the white box
- Then click “Submit”
    - On the right hand side of the page, the city, weather, minimum/maximum temperature, and condition should show up
    - In addition, on the bottom of the page, there should be four pieces of clothing items (shirt, shoes, pants, and jacket) displayed as a suggested outfit for the day
- If you do not like the outfit displayed, you can click “Submit” again and it will change either all or certain parts of the outfit.
- If you change the city that has different weather, the background will be adjusted according to the weather’s conditions in the new city.
    - I would recommend typing in “Pittsburgh”, “Irvine”, “Los Angeles”, and/or “San Francisco.”

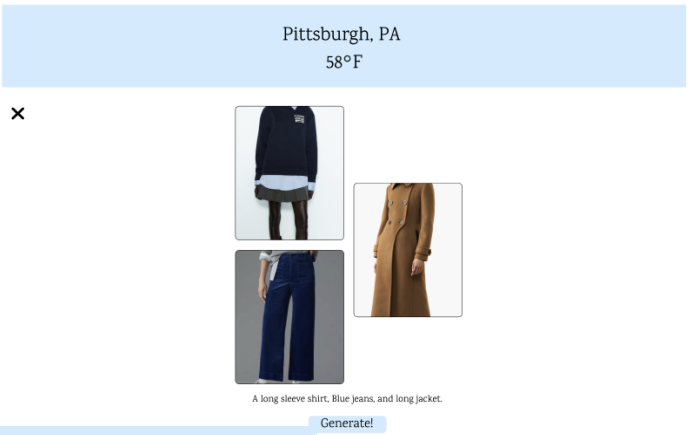
Part 3

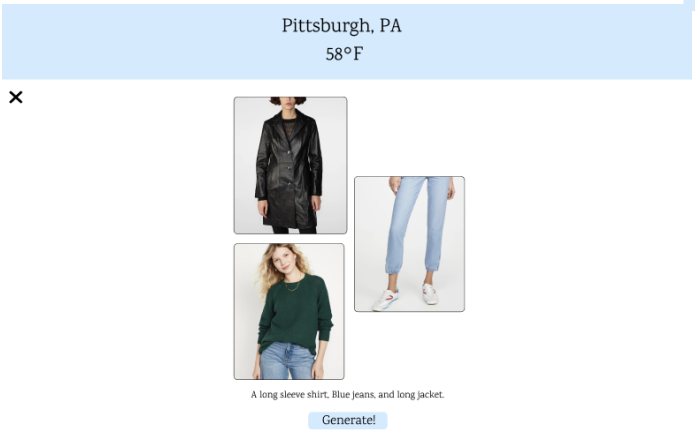
The tool I used was OpenWeatherMaps API to obtain data about the weather in the user’s location. The reason I chose OpenWeatherMaps is because it is accessible and clear to use. It is also able to display more information than just the temperature. For example, I could display conditions to easily align with the backgrounds I change based on the weather. I used the API to display information to the user about the weather, the minimum/maximum temperature, conditions, and a visual (the background change). I was able to correlate the conditions to match the background I wanted to display on the page. I believe the OpenWeatherMaps API along with the outfit generation feature adds a useful feature for the user to draw inspiration from. Moreover, the user is able to find pieces similar to one they may have and save time.

Part 4

Original Designs from FP 1 and 2







From my original design of the prototypes, I changed some of the pieces and concepts I displayed. This includes color scheme, the pieces of clothing items I show, and what parts of the weather conveyed on the user interface. I also had to cut down my website to one working page because I encountered time consuming difficulties with linking multiple buttons and data to another page. I did seek assistance multiple times but decided to put it on one page for simplicity.

Part 5

Some challenges I experienced during this project was getting the OpenWeatherMaps and Weatherstack API to work. I initially used Weatherstack because it was free, however the API was not able to generate any data even

though I had a key. I switched to the OpenWeatherMaps API and was able to get it working over a couple of days. Lastly, having multiple pages for the data to be displayed on caused a lot of bugs and enabled me to make this a one-paged website.