Internet Programming Project

WEATHER APPLICATION
PARTH PATEL

Weather App

Started by making the index page (main page), which has a header, with 3 links to the side.

The 3 links that lead to the home page and lead to the two other pages of this website. Then, the home page also has a search bar that allows you to search any city, and have it appeared on the map. The map was taken by the openweather API, and the weather information is also taken from the API. Lastly the footer also has the the 3 links for each webpage.

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"Merca Charset= utr-a ;

"Meta Mttp-equiv="X-UA-Compatible" content="IE=edge";

ctitle:Weather/ctitle;

k!ink rel="stylesheet" href="https://unpkg.com/leaflek/dist/leaflet.css" />
         <link rel="icon" href="images/weather-news.png">
meta name='viewport' content='width=device-width, initial-scale=1'>
<link rel='stylesheet' type='text/css' media='screen' href='styles.css'</pre>
                 der>
<hi>weather App</hi>
<!-- The naviguation on the right side of header with 2 links -->
                cnav>
<a href="index.html">Home</a>
<a href="save.html">Saved Cities</a>
<a href="forecast.html">Forecast</a>
                  cl-- Search bar to search the city. -->
cdlv id="searchtity">
cdlv id="searchtity">
cinput type="text" id="inputCity" placeholder="Enter city name">
cbutton id="searchButton">Searchc/button>
dex.html > \Theta html > \Theta body > \Theta footer > \Theta nav > \Theta a
                     <section id="weatherDisplay">
     <h2>Weather Information</h2>
                              <!-- Made a division for the actual info -->
    <!-- Info about: Temperature, conditions, humidity, windspeed -->
cdiv id="weatherInfo">
                                  Temperature: --°C
Conditions: --
                                        Wind Speed: -- km/h
                    <nav> <!--Links-->
    <a href="index.html">Home</a>
    <a href="save.html">Saved City</a>
    <a href="forecast.html">Forecast</a>
```

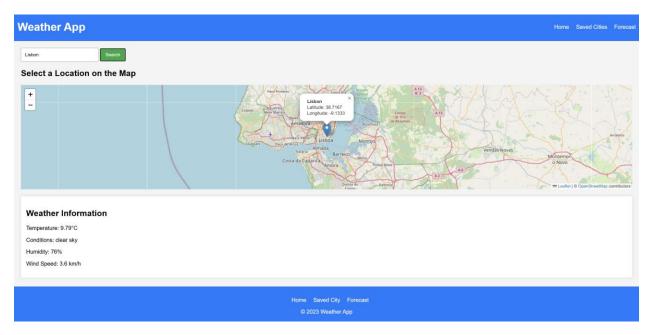
The leaflet styles and leaflet script is for the map put on the webpage. Makes the map interactive.

This is the javascript for the index page:

```
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```

Event listener for "DOMContentLoaded" makes sure that the entire DOM HTML is loaded. Then, it puts the map from the api on the page on the div "map" where the world map will be located. There is also a search feature, where when the user searches for a city, it will fetch the city weather information in an API, using AJAX. Once the data is fetched, it will apear on the weather information div and will display each information. Also, if no city was searched or city searched doesn't exists, it will give an alert message.

First Page Result:



• The Second page is the saved city page, where the user can enter a city and save it in a list of cities, where the weather is displayed for each city. This is implemented so the user can see the weather of the city he likes to see every time.

The search featuresis the same as the previous page. The only difference is that once you search a city, it will fetch the weather information from the API and make a element where it displays the weather information. Then you can add multiple cities to a list and see all the weather information for each city. This allows the user to see all the cities it wants to see on a regular basis.

The Second webpage:



The third webpage is the webpage that shows the forecast for the next 5 days:

The search feature is the same as the previous two pages. When the user presses the button search, it fetches the data from the API and will display the forecast for the next 5 days in the cards. It will show the forecast for the next 5 days based on the day you searched. For example, if you

search on Wednesday, it will show the forecast for Wednesday, Thursday, Friday, Saturday and Sunday. Each card shows an icon of the weather based on the forecast that day, so if it is snowing, it will have a snowing icon. It will also show the Temperature of that day, along side the weather conditions of that day. The icon was taken from OpenWeather, the same website I got the API for the weather information.

The result of the third webpage:



The CSS for the webpage looks like this:

```
# styles.css > ...
      /* Main page / Index */
     body {
          font-family: Arial, sans-serif;
          margin: 0;
          padding: 0;
          background-color: ■#f4f4f4;
          display: flex;
          flex-direction: column;
          height: 100%;
     header {
          display: flex; /* Use flexbox */
          justify-content: space-between; /* Space out the items */
          align-items: center; /* Center items vertically */
          background: ■#007BFF;
          color: ■#fff;
          padding-left: 10px;
          padding-right: 10px;
     nav {
          display: flex; /* Use flexbox for navigation links */
     nav a {
          color: ■#fff; /* Set link color */
          text-decoration: none;
          margin-left: 20px;
     /* On hover it will change color and underline it. */
     nav a:hover {
          text-decoration: underline;
          color: □#00008b;
     input[type="text"] {
          padding: 10px;
          width: 200px;
```

```
44 button {
         padding: 10px 15px;
         background: ■#28A745;
         color: □#fff;
         border: none;
         cursor: pointer;
    button:hover {
         background: ■#218838;
     /* Main area with content */
    main {
         padding: 20px;
        flex: 1;
61 /* The Iframe Map section */
     #mapSection {
         margin-bottom: 20px;
    #map {
        width: 100%;
        height: 300px;
     #weatherDisplay {
         background: ■#fff;
         padding: 15px;
         border-radius: 5px;
         box-shadow: 0 0 10px □rgba(0, 0, 0, 0.1);
     html {
         height: 100%;
```

```
background-color: ■#007BFF;
        padding: 10px;
        text-align: center;
        color: ☐#fff;
        padding: 30px;
        display: flex;
        flex-direction: column;
        align-items: center;
        max-width: 800px;
        margin: 20px auto;
      padding: 15px;
       font-size: 16px;
        background-color: ■#86c0f2;
        border: 1px solid ■#dddddd;
        border-radius: 8px;
        box-shadow: 2px 2px 8px □rgba(0, 0, 0, 0.1);
        list-style-type: none;
13
14
        background-color: ■#769bc2;
        font-family : 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
16
        padding: 5px;
        margin: 10px 0; /* Add space between individual city entries */
        line-height: 1.6;
        border: □#000000 solid;
24
        display: flex;
        flex-wrap: wrap;
        gap: 1rem;
```

```
# styles.css > ...
      .forecast-card {
          background-color: #f0f8ff;
136
          border: 1px solid ■#ccc;
137
          padding: 1rem;
          border-radius: 8px;
138
139
          width: 200px;
140
          text-align: center;
          box-shadow: 2px 2px 5px □rgba(0, 0, 0, 0.1);
      .forecast-card h4 {
          font-size: 1.2rem;
146
          margin-bottom: 0.5rem;
147
148
149
      #forecastCards {
150
          display: flex;
          justify-content: space-between;
          flex-wrap: wrap;
          gap: 10px;
          margin-top: 20px;
          margin-left: 10px;
          margin-right: 10px;
      .dayCard {
          background: ■#61a2e7;
160
          border: 1px solid ■#ccc;
          border-radius: 8px;
          padding: 10px;
          text-align: center;
165
          width: 120px;
166
          box-shadow: 0 4px 6px □rgba(0, 0, 0, 0.1);
167
168
169
      .dayCard img {
170
          width: 50px;
          height: 50px;
          margin-bottom: 10px;
      .dayDetails h4 {
179
         font-size: 15px;
180
          margin: 10px 0;
          padding-bottom: 20px;
      .dayDetails p {
185
          margin: 5px;
186
          font-size: 15px;
187
          padding-bottom: 5px;
188
          font-weight: bold;
```