WEB
DEVELOPMENT

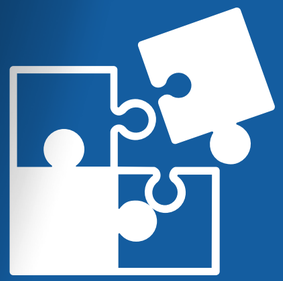
WEATHER APP
MIDTERM

Presented by: Gustavo Ribeiro & Enrique Córdova

HOW WE SPLIT THE WORK

WE WORKED ALONGSIDE EACH OTHER TO FINISH THE APP, SOLVE THE BUGS, PROBLEMS AND CREATE THE MOBILE VIEW BEFORE THE DEADLINE

PLANNING **FEATURES** **DESIGN** **RESPONSIVE**



ENRIQUE
WAS IN CHARGE OF THE CURRENT WEATHER AND WIREFRAME

GUSTAVO
WAS IN CHARGE OF THE 5 DAY FORECAST AND THE 3-HOUR RANGE

WHAT WE DID

- We created a weather app using fetch to get the weather info from the APIs.
- We did a function for getting the user's location when the page loads.
- We created an efficient, intuitive, and responsive design using media queries, flex, and grid.

API

```
function hourlyForecast(date,latitude,longitude) {
    // const latitude = parseFloat(localStorage.getItem("latitude"));
    // const longitude = parseFloat(localStorage.getItem("longitude"));
    const apiKEY = '6cb674453572835b5ade4f38d097ef0e';
    const apiURL = `https://api.openweathermap.org/data/2.5/forecast?lat=${latitude}&units=metric&lon=${longitude}&appid=${apiKEY}`;

        fetch(apiURL)
        .then(response => response.json())
        .then(data => {
            const hourlyForecast = data.list.filter(item => item.dt_txt.includes(date));
            const hourlyForecastDiv = document.getElementById('hourlyForecast');
            hourlyForecastDiv.innerHTML = ``;
            hourlyForecast.forEach(item => {
                const dAte = new Date(item.dt*1000.015);
                const DateText = dAte.toLocaleDateString();
                const TemP = Math.round(item.main.temp);
                const MiN = Math.round(item.main.temp_min);
                const MaX = Math.ceil(item.main.temp_max);
                const ClouD = item.clouds.all;
                const hourlyForecastItem = document.createElement('div');
                hourlyForecastItem.innerHTML = `
                <div class="section">
                    <div class="section-content">
                        <div class="details1">
                            <p>${TemP}ºC</p>
                            <p style="margin-left:10px;"><i class="fa-solid fa-cloud"></i> ${ClouD}%</p>
                            <p><i class="fa-solid fa-temperature-arrow-down"></i> ${MiN}</p>
                            <p style="margin-left:10px;"><i class="fa-solid fa-temperature-arrow-up"></i> ${MaX}</p>
                        </div>
                    </div>
                </div>
                `;
                hourlyForecastDiv.appendChild(hourlyForecastItem);
            });
        }).catch(error => {console.error('Error fetching data:', error)});
}
```

GEOLOCATION

```
14  if ("geolocation" in navigator && !localStorage.getItem("geolocationDone_")) {
15    navigator.geolocation.getCurrentPosition(
16      function(position) {
17        const latitude = position.coords.latitude;
18        const longitude = position.coords.longitude;
19        localStorage.setItem("latitude", latitude);
20        localStorage.setItem("longitude", longitude);
21
22        const data = transportDate();
23
24        currentWeather(latitude,longitude);
25
26        dailyForecast(latitude,longitude);
27
28        hourlyForecast(data,latitude,longitude);
29
30        // Use the OpenStreetMap Nominatim API for reverse geocoding
31        const apiUrl = `https://nominatim.openstreetmap.org/reverse?format=jsonv2&lat=${latitude}&lon=${longitude}`;
32
33        fetch(apiUrl)
34          .then(response => response.json())
35          .then(data => {
36            const city = data.address.city || data.address.town || data.address.village || data.address.hamlet;
37            localStorage.setItem("cityName", city);
38            localStorage.setItem("geolocationDone", true); // Set the flag to indicate geolocation is done
39          })
40          .catch(error => {
41            console.error('Error getting city:', error);
42          });
43
44
45      },
46      function(error) {
47        console.error('Error getting location:', error.message);
48      }
49    );
50  } else {
51    console.error('Geolocation is not available');
52  }
```

WHAT WE LEARNED IN THE PROCESS

Working with

- Multiple APIs
- SCSS
- Local Storage
- Event Listeners
- Media Queries

MOST CHALLENGING PARTS OF THE PROJECT

Integrating APIs

Fixing the Dropdown

Fixing the Favourite Star

FUTURE IMPROVEMENTS

FASTER LOAD AND API RESPONSE

UI / USX DESIGN AND COLORS

HOST IT TO MAKE IT AVAILABLE

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THANKYOU!

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