**Final Project – Web Weather App Documentation**

Student: Dias Seisenbek, DE, 2 course.

**Table of Contents**

1. [Introduction](#introduction)
2. [Features](#features)
3. [Technologies Used](#technologies-used)
4. [File Structure](#file-structure)
5. [Usage](#usage)
6. [Code Details](#code-details)

**1. Introduction**

The Weather App is a modern, user-friendly web application that allows users to search for weather information for any city. It features a responsive design and includes options to add cities to favorites for quick access.

**2. Features**

* **Weather Search**: Search for current weather details by city name.
* **Favorites Management**: Add and remove cities to/from the favorites list.
* **Responsive Design**: Fully optimized for desktop, tablet, and mobile devices.
* **Default Cities**: Quickly view weather for a pre-defined list of cities.
* **Smooth Transitions**: Visually engaging animations and hover effects.

**3. Technologies Used**

* **Frontend**: HTML, CSS, JavaScript.
* **Weather API**: OpenWeatherMap
* **Responsive Design**: Media queries for mobile and tablet optimization.

**4. File Structure**

bash

Copy code

weather-app/

├── index.html # Main HTML file

├── styles.css # CSS for styling

├── script.js # JavaScript for functionality

├── clouds.jpeg # image for intro

├── danger.png # icon for notifications.

├── Documentation.docx # Documentation file

**5. Usage**

**Search for Weather**

1. Enter a city name in the search bar.
2. Click the "Search" button to display weather details.

**Add to Favorites**

* Click the "Add to Favorites" button on a weather card to save the city.

**Remove from Favorites**

* Click the "Remove" button on a city card in the favorites section.

**6. Code Details**

**Highlighted Functionality**

**Fetching Weather Data**

The app uses fetch() to request data from the Weather API:

A screen shot of a computer

Description automatically generated

**Managing Favorites**

Checks if a city is already in the favorites:

A screen shot of a computer program

Description automatically generated