SYNOPSIS

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Weather Forecasting Application

Submitted By: Submitted To:

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Title of the Project:

Weather Forecasting Application

Objective:

To create a web-based application which detect the weather conditions of given location or current location.

Scope:

To develop software for forecasting the weather involving wind speed, cloud cover, rain in order to nurture the needs of people all around the globe.

To develop a weather forecasting application on which people can completely rely for their weather updates. The scope for weather forecasting system will keep on increasing as the technology progresses.

Methodology:

Use of languages like HTML, CSS, JavaScript, APIs.

Tools used are Visual Studio Code (Version 1.78.2).

Proposed System:

Weather report application is a web-based application through which you will able to get all the reports related to weather forecasting of any locations. Its geographical locator which will be received through browser setting and server configuration will automatically identify the location and able to present its weather details such as Temperature, Direction of Wind, Humidity etc. To develop software for forecasting the weather involving Wind Speed, Cloud Cover, Rain or Snow in order to nurture the needs of any person around the world.

Features:

- Current Weather Information
- Forecast Data
- Location Search
- User Customization
- API Integration

Implementation Plan:

Plan and brainstorm: October 26–31

Analyze requirements: November 1–3.

Designing mock-ups: November 4–6.

Coding: November 7–12

Test the product: November 13

Mid-Term Report: November 15

Implement and launch: November 18

Final Report: November 23

Team Members:

1.Parth Singh Chauhan: HTML, CSS

2. Ravi Kumar Vishwakarma: CSS, JavaScript

3.Ram Ji Dixit: JavaScript, API

Resources Required:

Visual Studio Code (Version 1.78.2), API documentation Tools.

References:

MDN Webdocs, Google, W3Schools, GeeksForGeeks, Wikipedia, YouTube

Expected Outcomes:

Create a real-time weather app that takes the exact location of the user and also provides weather forecast for the day and upcoming days we also try to design a simple yet intuitive user interface to provide comprehensive data in addition the application also gives suggestions to users based on weather conditions and finally users can search and access data for custom (string based) locations.

Project Supervisor:

Mr. Anmol Sir (Coding Blocks)

Conclusion:

In the era of global warming research on weather measurement monitoring and forecasting is becoming increasingly relevant. This study demonstrates the design and implementation of an affordable mini weather monitoring system that ensures the flexibility, portability, scalability and user-friendly operations that can provide feeds data on selected weather variables including temperature humidity and pressure. With advancements in technology weather forecasting has evolved to its best level but is still underdeveloped because of its highly unpredictable nature weather forecasts are becoming more accurate and useful and their benefits are expanding across the economy although much has been achieved to improve weather forecasting. There is still much work to be done at the same time in developing new technologies and observation networks that can improve the skills of forecasters and the value of their services to users.