SYNOPSIS

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Weather Forecasting Software

Submitted By: Submitted To:

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Weather Forecasting Software

Objective: The main objective of this project is to develop a web-based Weather App that allows users to input a location and retrieve real-time weather information. This app aims to provide a user-friendly and visually appealing interface with accurate and up-to-date weather data, helping them plan their activities and make informed decisions based on weather conditions.

Scope: Our project will cover the development of a web-based weather software that allows users to input a location and retrieve detailed weather information. It will display current weather conditions and provide a 5 day forecast in the future at the given location. It will not include advanced features such as historical data or extensive location-based services.

Methodology: Our project is organized using HTML as main frontend language and user interface is made simple to understand and user friendly using CSS. Javascript is as the backend language to react to the user's command. The software uses fetch API to retrieve weather data in real time.

Proposed System: The proposed system is a web-based Weather App that provides users real time weather details and a 5 day weather forecast. It fetches weather data from a third-party API, displays current weather conditions, and provides a 5-day forecast. It will not cover in-depth climate analysis, long-term weather forecasts, or advanced meteorological data processing.

Features

• User-friendly environment

• Simple and responsive user interface

• Real time weather data retrieval

• Display of current weather conditions, temperature, humidity, wind speed, and muchmore

• Usage of fetch API

• Provides a 5-day forecast with temperature and weather conditions of any input location by the user

Implementation Plan:

• Project kickoff and team formation

• Project setup and interface design

• Front-end development (HTML, CSS)

• Integration with weather API

• User interface design and implementation

• Testing and debugging

• Documentation and deployment preparation

Team Members:

• Project Manager: Srishty Rai

• Front-end Developer: Samridhi Singh

• Documentation: Shashank Mishra

• Backend Developer: Lakshya Vashishtha

Resources Required:

• Development environment

• Third-party weather API access

• Web hosting and domain

References:

• Online resources and documentation

• Third party weather API documentation

Expected Outcomes:

At the end of the project, we hope to achieve a software/application which helps people in their daily life by providing them the weather forecast of the places they wish to see. The app will ask for a location and tell the weather forecast of the location in real time as well as future.

Project Supervisor:

Mr Farhan

Conclusion:

So, to wrap up the synopsis of the weather application, it's a super handy tool that provides you with up-to-date weather information. With this app, you can easily check the current temperature, forecast, and even get alerts for severe weather conditions. It's like having your own personal meteorologist in your pocket! With its user-friendly interface and reliable data sources, this app ensures that you stay informed about weather conditions wherever you are. Whether you need to plan your outdoor activities, prepare for a trip, or simply stay updated on the weather, this application is your go-to resource. Stay ahead of the elements with this powerful weather app.

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