A Project Synopsis on

**Weather Website**

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**PROBLEM STATEMENT**

## In this paper, we will provide an overview of the mechanisms used in weather forecasting website. Especially how we can see the weather conditions of any place just by making several clicks.

## 

## **PURPOSE**

The development of the weather website is very useful for the general users like farmers so that they can easily check the weather and perform actions like sowing, irrigation, fertilizers etc. and everyone out there who want to plan things accordingly with weather conditions.

**Objective and Scope of the Project**

***Objective:***

The main Objective is to provide the relevant information to the common people so that they can plan their actions accordingly and protect themselves from weather hazards.

***Scope:***

The aim of *Meteorological Applications* is to serve the needs of applied meteorologists, forecasters and users of meteorological services including:

applications of meteorological, climatological, analytical and forecasting data, and their socio-economic benefits;

forecasting, warning and service delivery techniques and methods;

weather hazards, their analysis and prediction;

performance, verification and value of numerical models and forecasting services;

practical applications of ocean and climate models;

education and training.

**Feasibility Study**

The mentioned description of the system which is about to be developed can be

implemented using the latest technologies which include :

**HTML:-** HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content.

**CSS:- Cascading Style Sheets** (**CSS**) is a [style sheet language](https://en.wikipedia.org/wiki/Style_sheet_language) used for describing the [presentation](https://en.wikipedia.org/wiki/Presentation_semantics) of a document written in a [markup language](https://en.wikipedia.org/wiki/Markup_language) such as [HTML](https://en.wikipedia.org/wiki/HTML).CSS is a cornerstone technology of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web), alongside HTML and [JavaScript](https://en.wikipedia.org/wiki/JavaScript).

**Javascript:- JavaScript** often abbreviated as **JS**, is a [programming language](https://en.wikipedia.org/wiki/Programming_language) that conforms to the [ECMAScript](https://en.wikipedia.org/wiki/ECMAScript) specification. JavaScript is [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), often [just-in-time compiled](https://en.wikipedia.org/wiki/Just-in-time_compilation), and [multi-paradigm](https://en.wikipedia.org/wiki/Programming_paradigm). It has [curly-bracket syntax](https://en.wikipedia.org/wiki/List_of_programming_languages_by_type#Curly-bracket_languages), [dynamic typing](https://en.wikipedia.org/wiki/Dynamic_typing), [prototype-based](https://en.wikipedia.org/wiki/Prototype-based_programming) [object-orientation](https://en.wikipedia.org/wiki/Object-oriented_programming), and [first-class functions](https://en.wikipedia.org/wiki/First-class_function). Alongside [HTML](https://en.wikipedia.org/wiki/HTML) and [CSS](https://en.wikipedia.org/wiki/CSS), JavaScript is one of the core technologies of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web). JavaScript enables interactive [web pages](https://en.wikipedia.org/wiki/Web_page) and is an essential part of [web applications](https://en.wikipedia.org/wiki/Web_application). The vast majority of [websites](https://en.wikipedia.org/wiki/Website) use it for [client-side](https://en.wikipedia.org/wiki/Client-side) page behavior, and all major [web browsers](https://en.wikipedia.org/wiki/Web_browser) have a dedicated [JavaScript engine](https://en.wikipedia.org/wiki/JavaScript_engine) to execute it.

**Methodology**

It is intended to the people who need weather information.

## **Weather website Project Users:**

1. Administrator.  
2. User.

**Administrator:**

Administrator is having all the rights to access this portal. Admin can view each and everything and can make changes to anything without any special permission from anyone.

**User:**

The people who use this system for the benefit of getting weather updates are the users and they can not make any change in the interface or anything they can only view the information displayed on website.

**Requirement Analysis**

**Software and Hardware Requirements**

**Software Requirements**

The minimum software requirement specifications for developing this project

are as follows:

Operating System : Windows XP

IDE : VS Code

Documentation Tool : MS Office

**Hardware Requirements**

The minimum hardware requirement specifications for developing this project are

as follows:

Processor : Standard processor with a speed of 1.6GHz

RAM : 256MB RAM or higher

Hard Disk : 20GB or more

Monitor : Standard color monitor

Keyboard : Standard keyboard

Mouse : Standard mouse

**Industry Impact**

The last several decades have seen major advances in the scientific understanding of weather and climate, and these advances, enabled by observational and computer technologies, have led to major improvements in warnings of severe weather, in short- and medium-range weather forecasts, and in climate outlooks on time scales ranging from a month to a year or longer.