**Weather Masters:
A Comprehensive Presentation
on the HTML, CSS,
JS, and Flask Project**

Abstract

The "Weather Masters" project, built on the Flask web framework, offers a user-friendly interface with key features such as user authentication and real-time weather updates. Utilizing external APIs for accurate information. The "Cloudburst Prediction " is a comprehensive solution analyzing meteorological parameters to predict cloudbursts, providing valuable insights into weather patterns.

Software Requirements

Front end: HTML, CSS & JAVA SCRIPT.
Back end : Flask, Sqlite3.

HTML

HTML (Hypertext Markup Language) is the backbone of web development, serving as the standard markup language for creating and structuring content on the internet. It utilizes a system of tags to define and organize various elements within a webpage, such as headings, paragraphs, images, and links.

CSS Styling

CSS (Cascading Style Sheets) is a styling language used in web development to control the presentation and layout of HTML documents. It acts as a design layer, allowing developers to define the visual appearance of web pages.

Interactive JS

JavaScript can fetch data from external websites using techniques like AJAX or Fetch API. This enables your "Weather Masters" application to retrieve real-time weather information from external APIs, ensuring up-to-date and accurate forecasts.

Server-side with Flask

Flask is a lightweight and user-friendly web framework for Python. It simplifies the process of building web applications by providing a straightforward way to handle requests and responses.
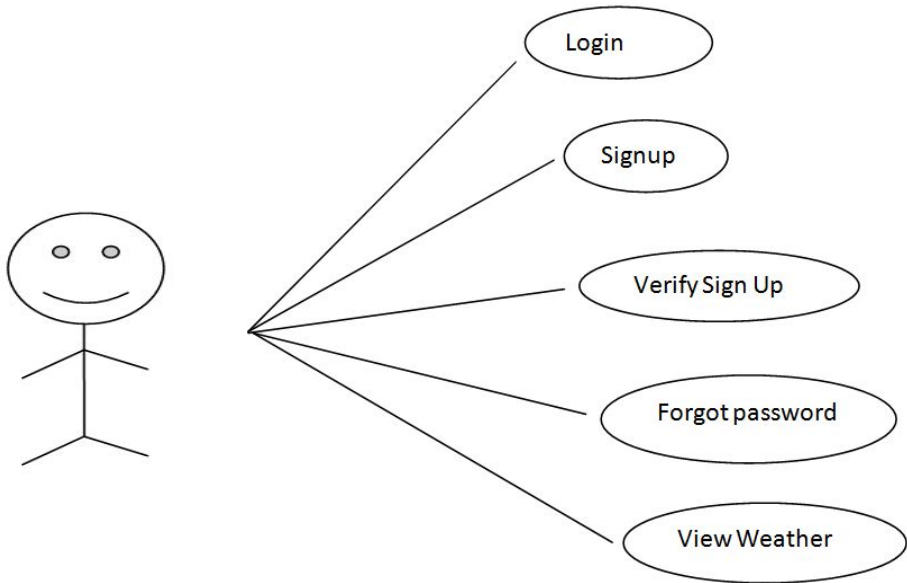
Hardware Requirements

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Operating System  :   Windows 10 Ultimate
Processor         :    Intel® Core 13 DUO
CPU
RAM               :    8 GB
System type       :    64-bit operating
system
```
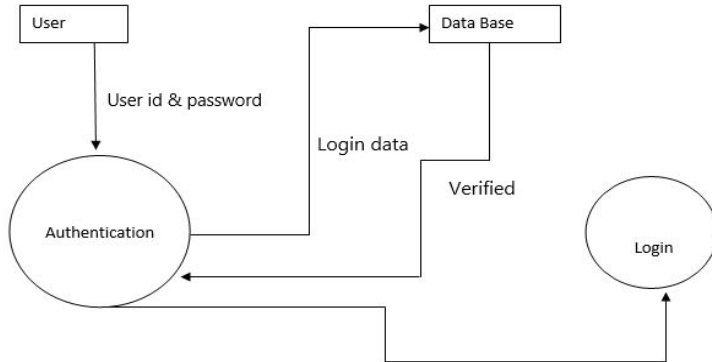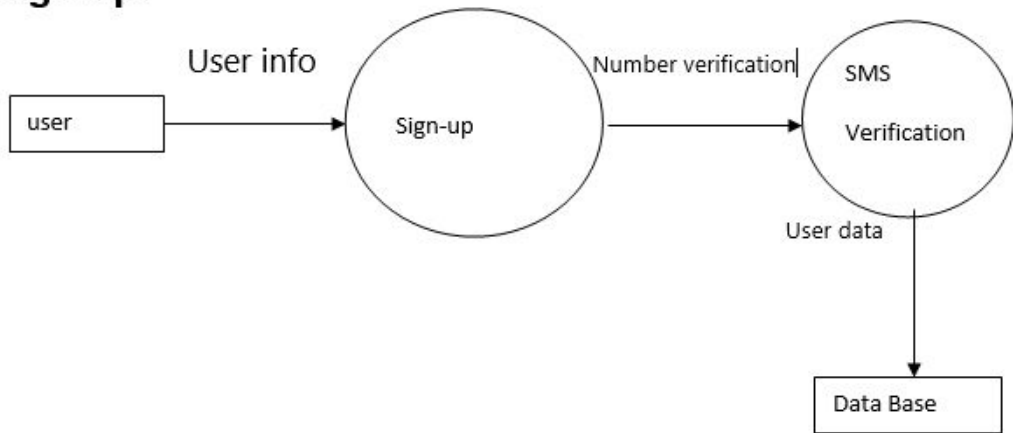
USE CASE DIAGRAM

ADMIN ROLES:
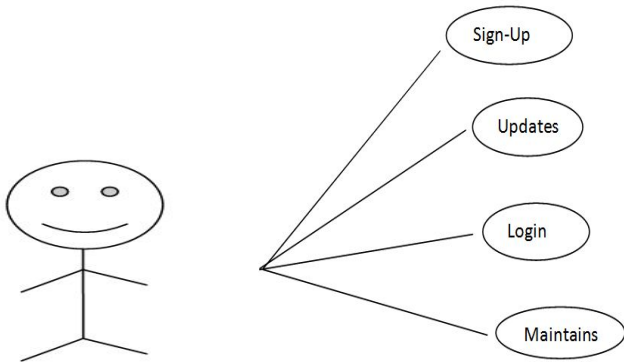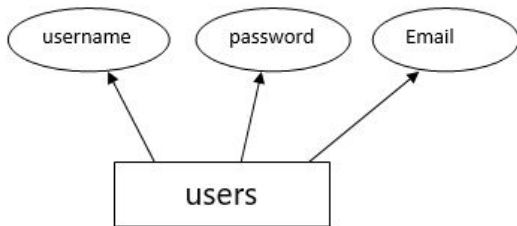
User Roles:

DATA FLOW DIAGRAM

Login:

Sign-up:

DATABASE DESIGN

Database Table Design:

USER:

FIELD	DATATYPE
NAME	VARCHAR[30]
EMAIL	VARCHAR[500]
PASSWORD	VARCHAR[50]

ER Diagram:

UI DESIGN

LOGIN:
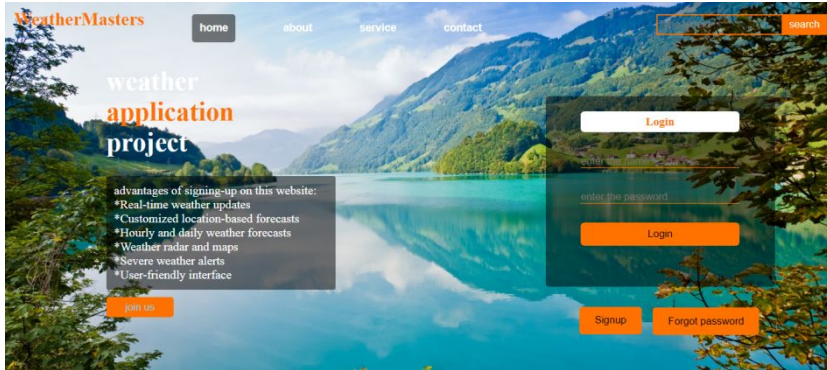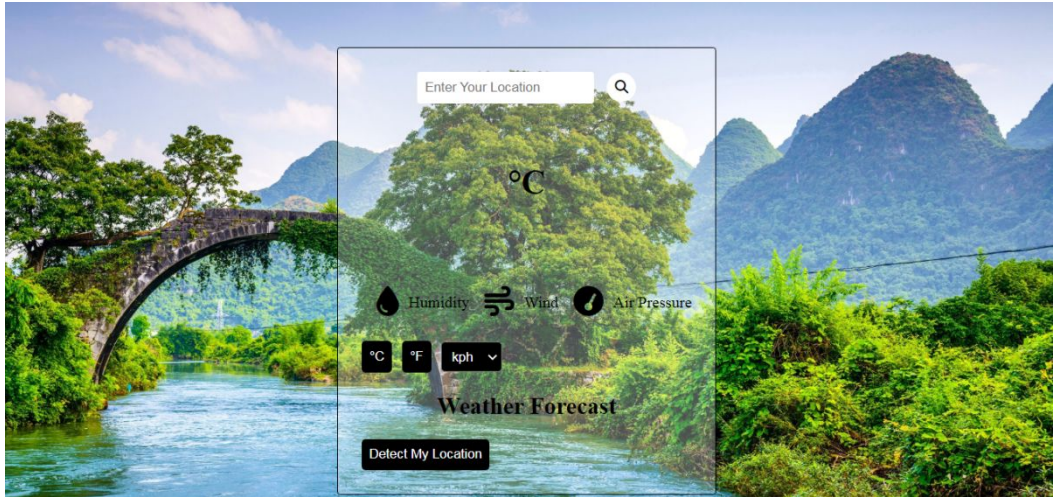
signup

Weather displaying Page:

Conclusion

Weather Masters, made with HTML, CSS, JS, and Flask, shows live weather info in an easy-to-use design. It proves our skill in web development, combining a friendly interface with quick data updates. It's a sign of our commitment to making things look good and work well.

Thank You!

Done By:
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