

4CS017

Internet Software  
Architecture

Weather Forecast

Name: Anuj Prasad Pradhan

Student ID: 2408570

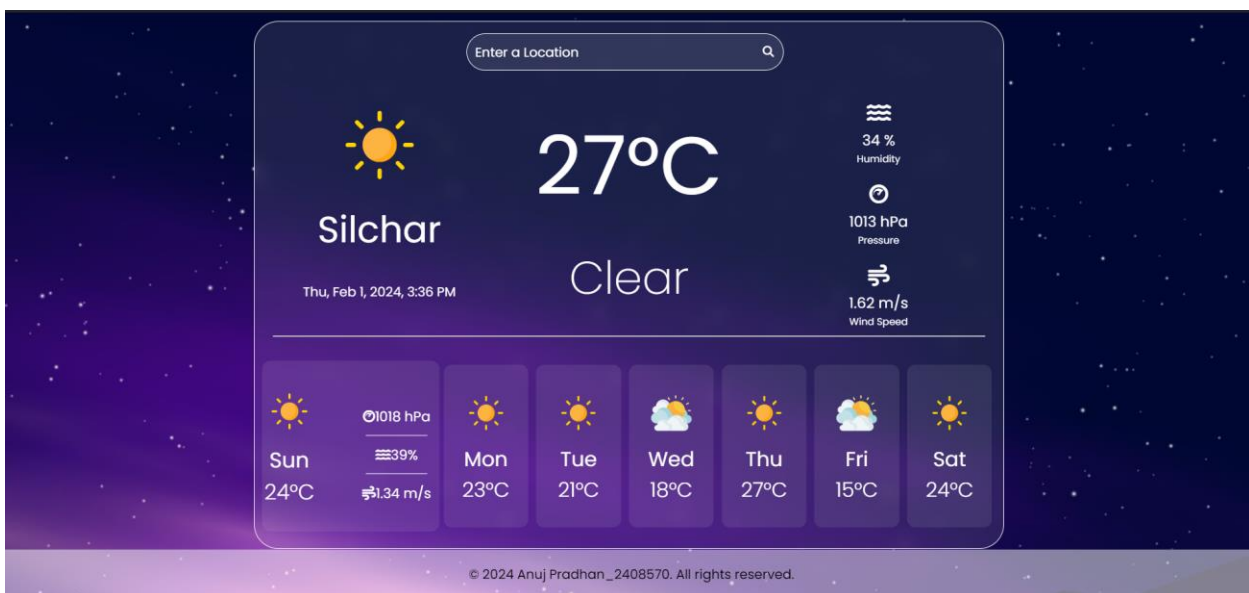
Prototype: 2

# Contents






















Introduction.....	1
Strength.....	2
Live Time Update .....	2
Seven-Day Forecast: .....	2
Image Representation: .....	2
Search Functionality: .....	3
API Integration: .....	3
User friendly interface:.....	3
Weakness.....	3
Not responsive:.....	3
Limited seven days: .....	3
Limited weather conditions icons: .....	4
CONCLUSION .....	4

## • Introduction

- In this prototype I have built a weather application (Webpage) to help people easily check the current weather anywhere in the world. By usage of PHP, I have created this modification to the web application that it shows the past 7 days data of my assigned city (Silchar). All the seven days' past data also show humidity, pressure, windspeed and most importantly temperature.
- Here is the image of my prototype:



- And this the table of database where I have inserted my seven days data:

			id	1	images	temp	pressure	humidity	windspeed	name	timezone	day
<input type="checkbox"/>				1	Clear	24	1018	39	1.34	Silchar	19800	Sun
<input type="checkbox"/>				2	Clear	23	1019	35	0.96	Silchar	19800	Mon
<input type="checkbox"/>				3	Clear	21	1019	40	1.43	Silchar	19800	Tue
<input type="checkbox"/>				4	Clouds	18	1019	54	1.13	Silchar	19800	Wed
<input type="checkbox"/>				5	Clear	27	1014	34	2.18	Silchar	19800	Thu
<input type="checkbox"/>				6	Clouds	15	1018	57	0.34	Silchar	19800	Fri
<input type="checkbox"/>				7	Clear	24	1015	38	1.89	Silchar	19800	Sat

- Here are some strengths and weaknesses of my weather app that are mentioned below:

## • Strength

### ▪ Live Time Update:

My app provides live time updates of the following location, enhancing the user experience with real-time information.

### ▪ Seven-Day Forecast:

My app provides 7 days of data of my default city adding more context to the application.

### ▪ Image Representation:

The weather icon changes according to the weather conditions enhancing the overall user experience.

- **Search Functionality:**

Users can search for weather information for different locations, providing flexibility and a broader scope of usage.

- **API Integration:**

I have created my own API for the integration of seven-day data but also used an external API for making it dynamic so that it can search for other city temperatures as well.

- **User friendly interface:**

This application has user friendly interface allowing users to access real-time weather information for any location. The clean design and searchbar adds to the overall user experience and seven days data directly fetched from my own database.

- **Weakness**

- **Not responsive:**

The current weather application is not yet responsive for every device and is only usable on computers.

- **Limited seven days:**

The current weather application only shows the past seven days data

of my default city and isn't dynamic enough to show of other all cities.

- **Limited weather conditions icons:**

The app currently supports a limited set of weather icons. Expanding  
Thus, the set could improve the diversity and make the app more  
engaging.

- **CONCLUSION**

- In conclusion, the strengths and weaknesses discussed give a thorough understanding of the weather application. These insights can guide future development and enhancements, providing valuable information for improvement.