

## Synopsis

### Weather Forecasting Website

#### Submitted by:

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|-------------------------------|-------------------------------|
| 1. Lalit Dubey (201500370)    | 3 <sup>rd</sup> year, sec.(G) |
| 2. Gaurang Lavania(201500247) | 3 <sup>rd</sup> year, sec.(H) |
| 3. Akash Purohit(201500059)   | 3 <sup>rd</sup> year, sec.(J) |

**Submitted to:** Ms.Madhu, Technical Trainer Training and development Deptt.

## **Acknowledgement**

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals.

We owe special debt of gratitude to Ms Madhu, Technical Trainer, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work.

His sincerity, thoroughness and perseverance has been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We also do not like miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

Lalit Dubey(201500370)

Gaurang Lavania(201500247)

Akash Purohit (201500059)

## **INTRODUCTION**

Weather forecasting means the prediction of the weather through the application of the principles of physics, supplemented by a variety of statistical and empirical techniques.

In addition to predictions of atmospheric phenomena themselves, weather forecasting includes predictions of changes on the Earth's surface climate. These changes are caused by atmospheric conditions like snow and ice cover, storm tides, and floods.

The basis for weather prediction started with the theories of the ancient Greek philosophers and continued with Renaissance scientists. It was followed by the scientific revolution of the 17th and 18th centuries. The theoretical models of 20th- and 21st-century atmospheric scientists and meteorologists helped for the betterment in applications. The so-called synoptic weather map came to be the principal tool of 19th-century meteorologists. This is used today in weather stations and on television weather reports all over the world. All can happen only through a comprehensive weather forecast. Any weather prediction needs a systematic collection of weather record of various places and proper analysis using the data for prediction

## **Objective**

Objective: This section will outline the specific goals and objectives of the fitness website, including the types of services, features, and benefits it will offer to users.

## **Problem:**

The basic problems with the existing systems are the non-interactive environment they provide to the users.

## **Solution:**

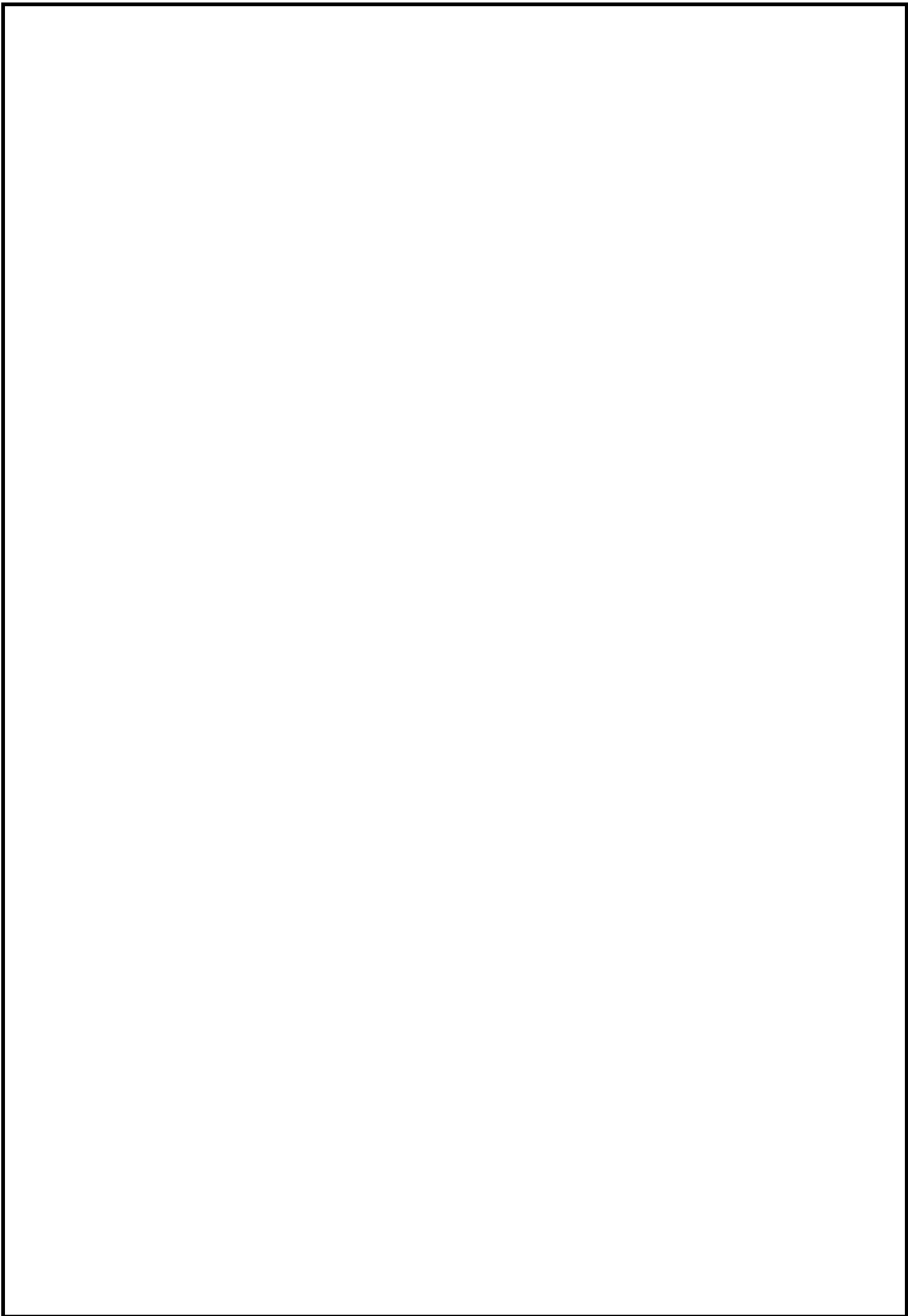
UI/UX will not be as the traditional fitness website or platforms we will be using new technologies(bootstrap) for making better user experience.

## **ABSTRACT**

Weather forecasting is the prediction of the state of the atmosphere for a given location using the application of science and technology. This includes temperature, rain, cloudiness, wind speed, and humidity.

Weather warnings are a special kind of short-range forecast carried out for the protection of human life. Weather warnings are issued by the governments throughout the world for all kinds of threatening weather events including tropical storms and tropical cyclones depending upon the location. The forecast may be short-range or Long-range. It is a very

interesting and challenging task. This report provides a basic understanding of the purpose and scope of weather forecast



## **Feasibility of project**

The feasibility of the project can be divided into the following sections:

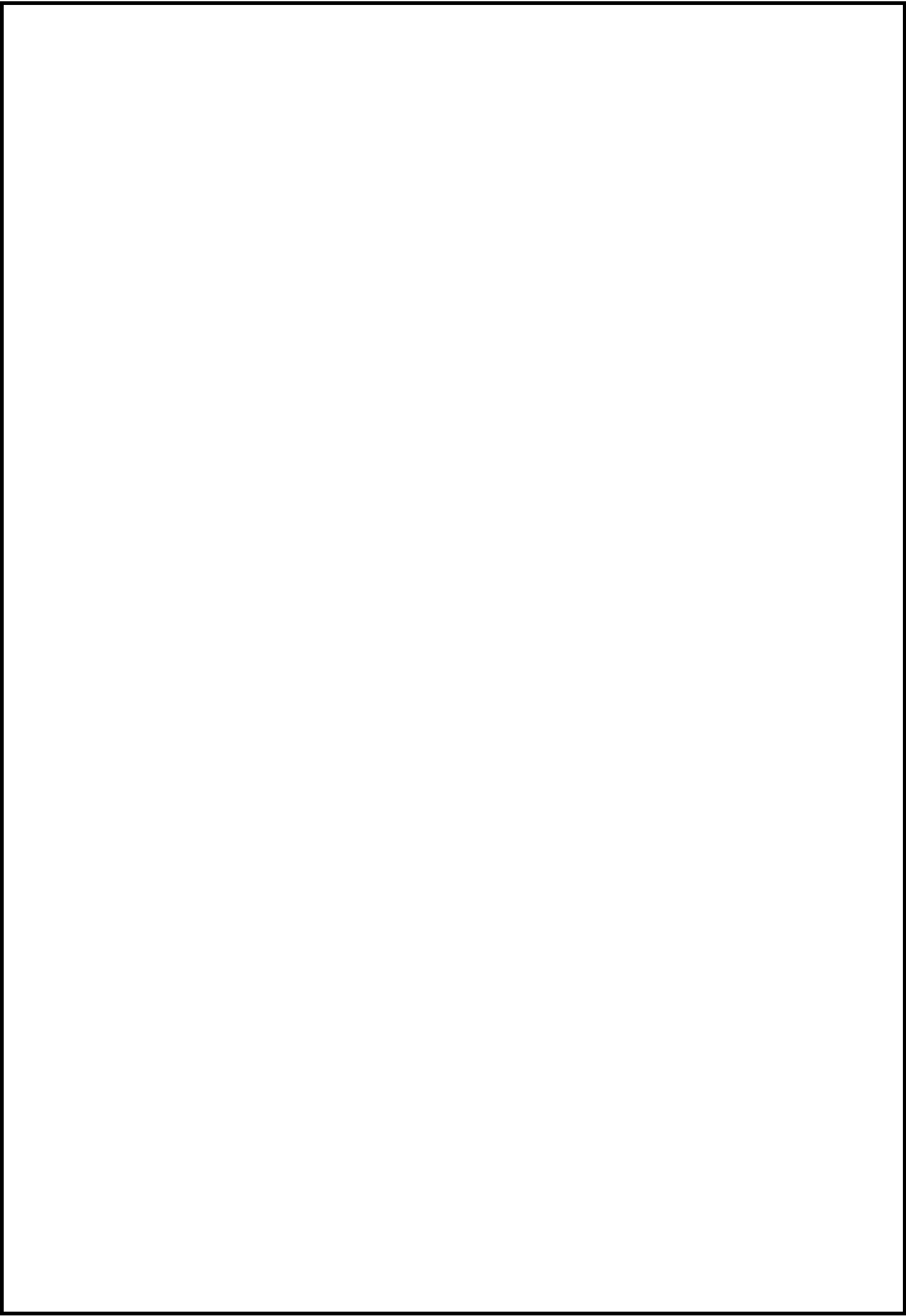
### **Economic feasibility:**

The project is economically feasible as the only cost involved is having a computer with the minimum requirements mentioned further in the synopsis. For the users to access the application, the only cost involved will be in getting access to the Internet.

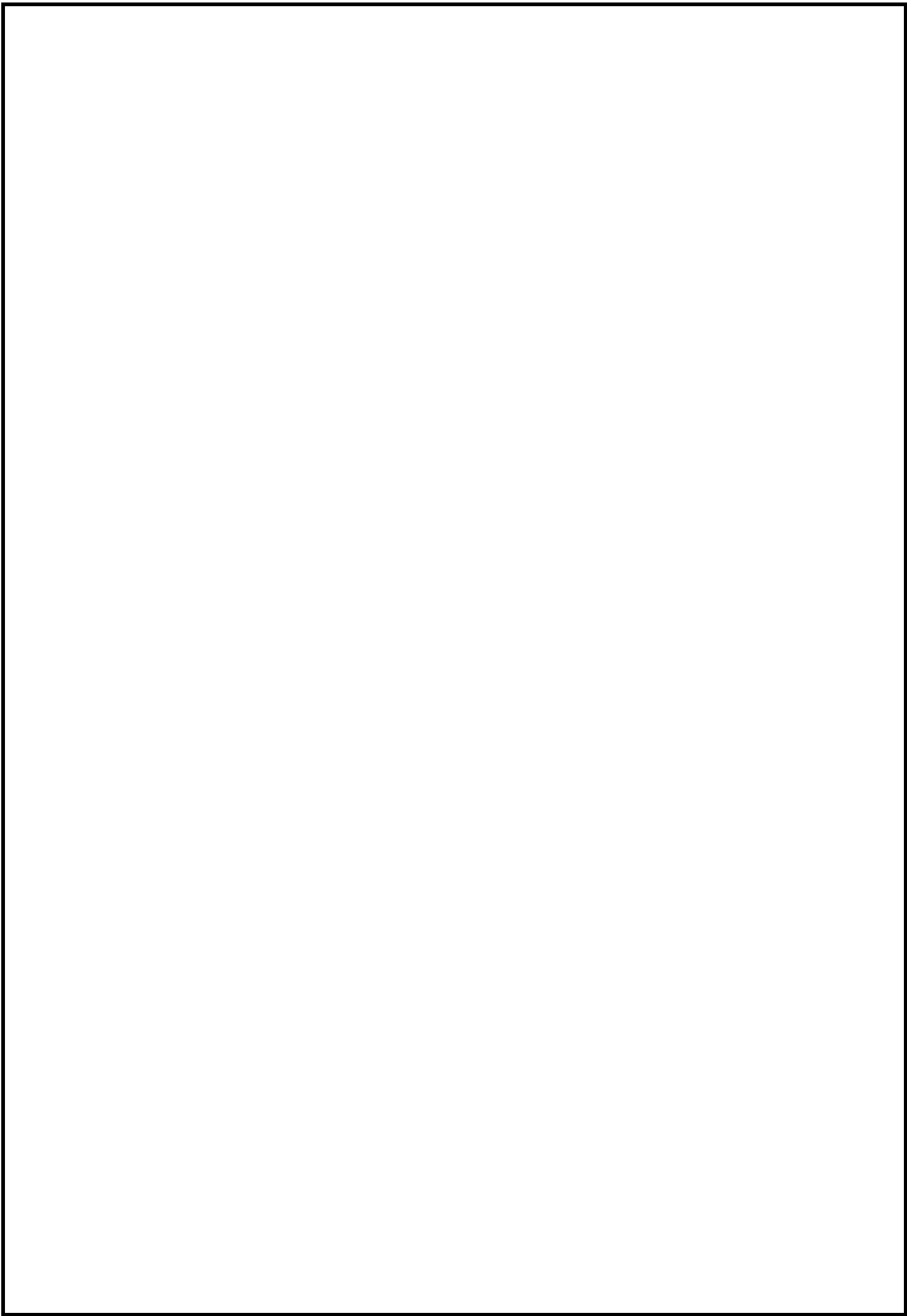
### **Technical Feasibility:**

To deploy the application, the only technical aspects needed are any Operating Environment with Internet Browser and Internet Connection

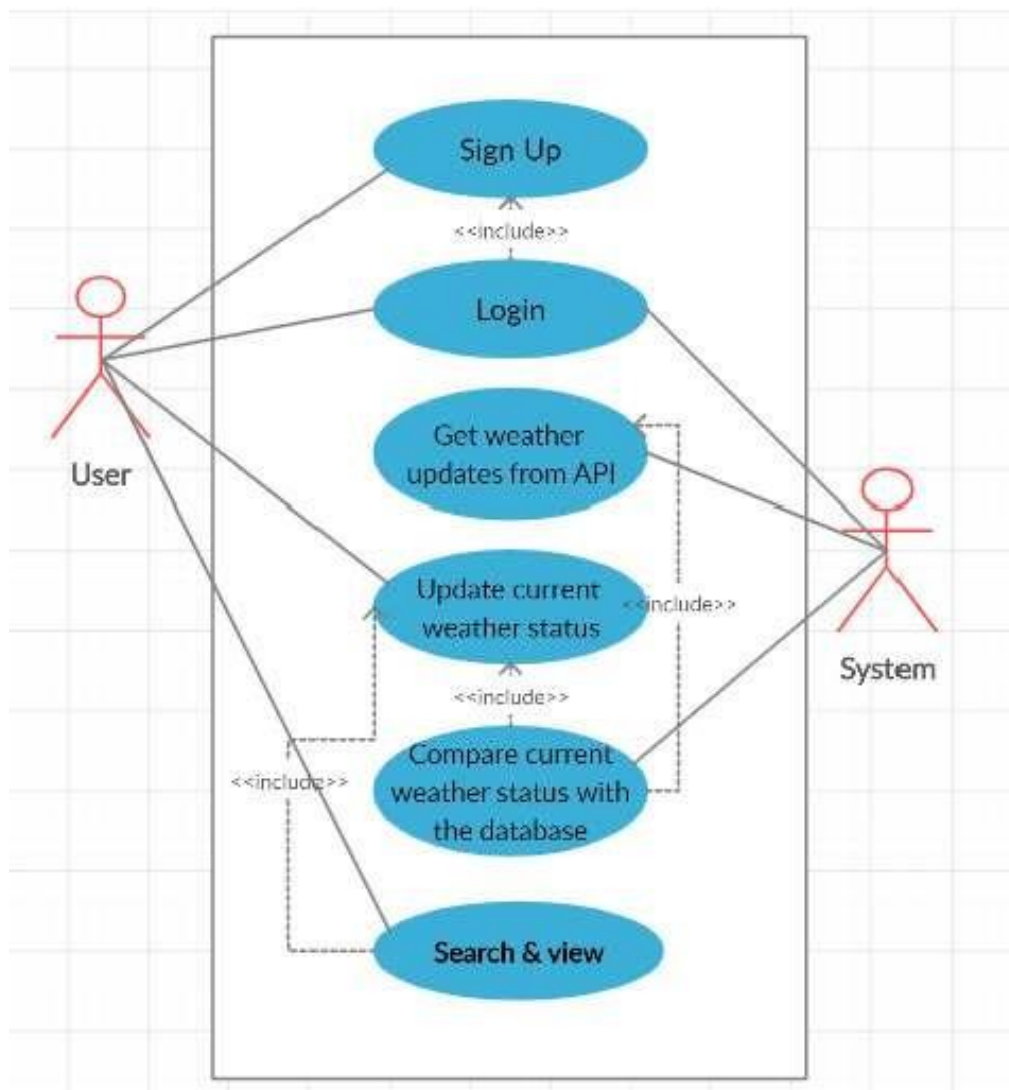
**Behavioral Feasibility:** The application requires no special technical guidance and all the views available in the application are self explanatory. The users are well guided with warning and failure messages for all the actions taken.

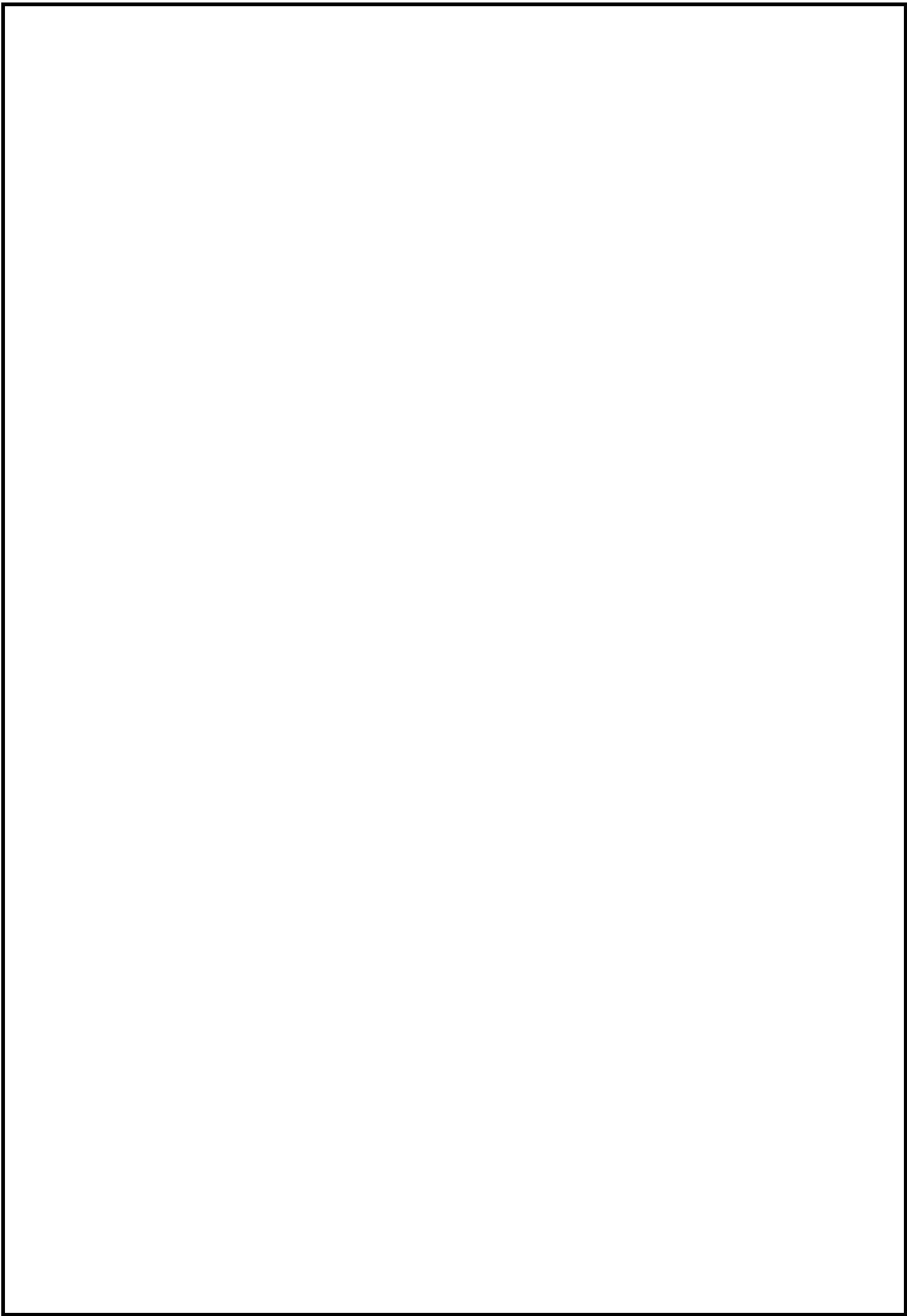




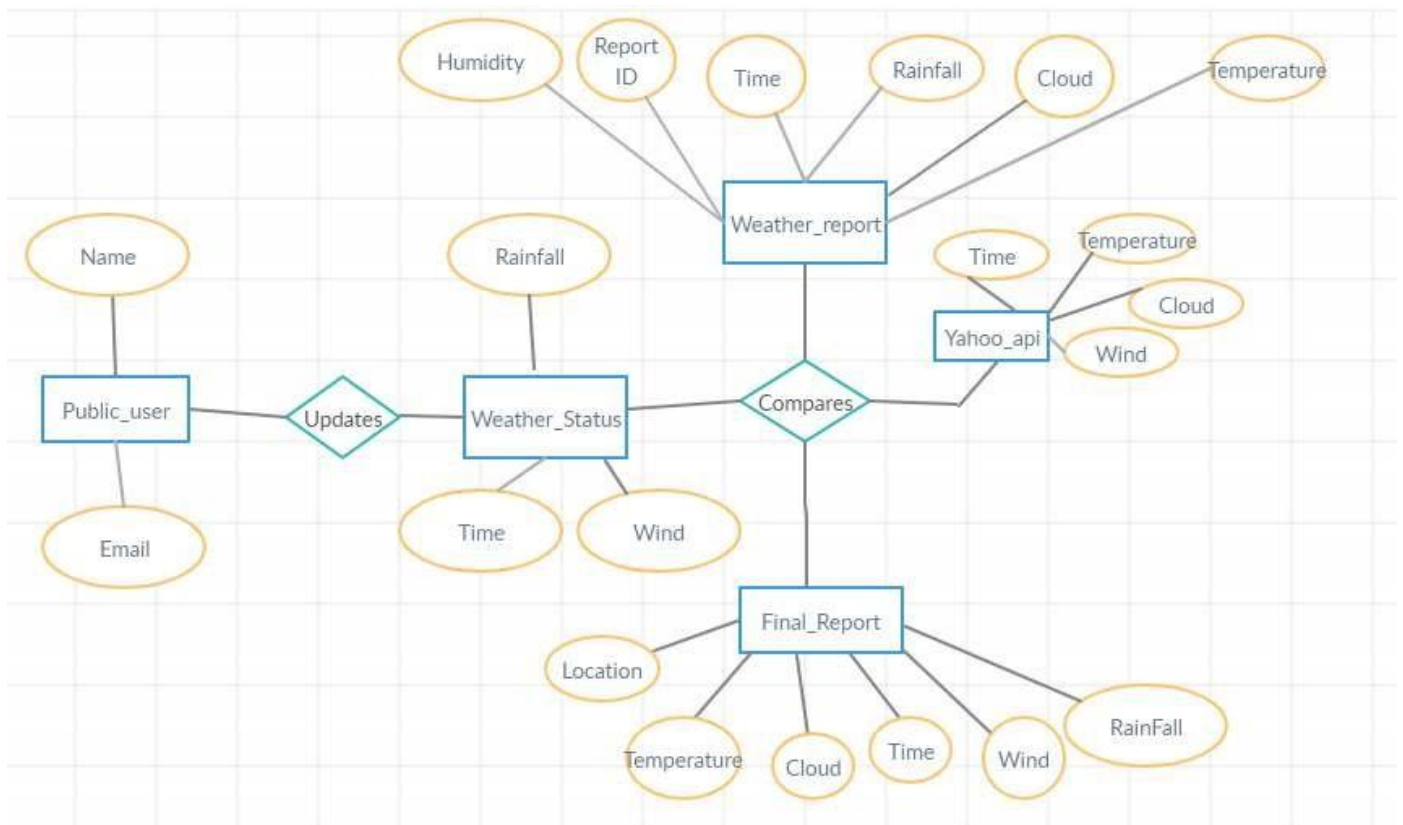


**Use case for crowdsourcing application. This diagram shows interaction according to the system and the public user.**





## Use Case Diagram



## **Software Specification**

<b>S.no</b>	<b>Name</b>	<b>Software</b>
1.	Technology Implemented	Front-End+Back-End(Fire-Base,PHP )
2.	Language used	HTML,CSS,JS
3.	Database	Fire-Base and MySQL
4.	User Interface Design	Bootstrap
5.	Web Browser	Firefox,Chrome etc.

## **Hardware Requirement**

<b>S.no</b>	<b>Name</b>	<b>Hardware</b>
1.	Processor	I3
2.	Operating System	Windows,Ubuntu etc.
3.	RAM	4GB
4.	Hardware Devices	Laptop,PC,Mobile
5.	Hard Disk	20GB
6.	Display	1920x1080

## **Technical Architecture**

The technical architecture of Weather Forecasting Website refers to the overall design and structure of the website, including the technologies and tools used to build and operate it. Some of the technical architecture elements that should be included in the project of Weather Forecasting Website are:

**Front-end technologies:** The front-end of the website includes the user interface and experience, and the technologies used to build it can have a significant impact on the website's performance and functionality. Common front-end technologies used for this websites include HTML, CSS, JavaScript, and Bootstrap.

**Back-end technologies:** The back-end of the website includes the server-side logic, database management, and other technologies that power the website.

**Hosting:** The website will be hosted on github and all the requirement's and functionality to run on the server will be given by github.

Overall, the technical architecture should be designed to support the website's functionality, performance, and scalability, while also ensuring security and ease of maintenance.

### **Books:**

- **HTML & CSS : The complete Reference**
- **JavaScript for Modern Web Development**
- **CSS Mastery**

### **Websites:**

- [www.google.com](http://www.google.com)
- [www.w3school.com](http://www.w3school.com)
- [www.javaworld.com](http://www.javaworld.com)
- [www.projectdevelop.com](http://www.projectdevelop.com)
- [www.wikipedia.com](http://www.wikipedia.com)
- [www.youtube.com](http://www.youtube.com)