**software requirement document**

**1.Introduction**

The weather has always been a concern. Because whether it's traveling or working, the weather has a huge impact on people. Now, with our app, users can not only have enough knowledge of weather information, but also get some suggestions for our daily plans. We believe that this software will bring enough convenience to people.

We care enough about the security of users' information, so we will strictly verify users' account information when using this software. The software will verify whether the user is the user by sending a verification code to the user's mailbox, etc., to protect the user's information security.

In terms of weather, the software will give the user enough variety of information. In addition to regular weather information such as sunny, cloudy, etc., the software will also provide information such as air humidity, UV intensity, and PM2.5. In addition, users can also highlight the information they need and delete the information they don't care about according to their own needs. For special user groups, the software will also provide certain special services.

The most special thing about this software is that we provide recommendations based on the needs of users and the weather. We collect a lot of data from the internet to provide users with the best schedule.

We hope that users will be able to get help based on the advice provided by this app so that they can enjoy their daily lives without the effects of bad weather.

**2.Product scope**

This production is designed to help customers find weather information more quickly and accurately,so that they can decide or change their trips at the first time.Not only does it includes regular weather information such as sunny, cloudy, etc., the software will also provide information such as air humidity, UV intensity, and PM2.5.

**3.Product value**

Weather is an objective factor that restricts our travel.If we want to go outside or we have gone,we need to pay close attention to the weather almost at any time in case of difficulties.This APP can help you make it.

**4.Intended Use**

The users include volunteers,office workers,college students and so on young people.

**5.Intended Use**

After the user logs in, determine the user's location, contact relevant systems, and provide the user with basic and comprehensive weather information, such as weather conditions (sunny, cloudy, rainy, snowy, typhoon, hail), temperature, daily range, humidity, wind size, wind direction, sunrise and sunset time, etc

After the user completes the relevant basic information, determine the user's type (man or woman, student or office worker, unmarried or married, and whether there are children), and add user tags based on the user's historical query information (like to go to the seaside or the mountains, and what kind of clothes you like to wear).

When finishing obtaining user requirements, give suggestions according to real-time weather information, user type, tags owned by users, and relevant information in the index database.

1. **Essential features**

As a basic application, the weather forecast APP has a very large user group, and different users have different needs, so the software should have a variety of functions.

First,the application should have the automatic positioning function and display the weather information and the temperature for the next few days.Second,It also should show the basic weather information such as air quality, the ultraviolet coefficient,air pressure and rainfall probability.Third,the application has the weather radar map, rain cloud radar map and rainfall time-sharing rainfall map,which could visually display the weather conditions in the form of images.Last, the application will provide with some life guides based on the current weather conditions.

1. **Desirable features**

As designers, our group hope that this software can have as many functions as possible to win more support.Therefore, while having the existing functions, we also strive to make it have more weather detection capabilities. At the same time, our group also hopes to cooperate with more people to increase the automatic route finding function when encountering bad weather.So this is a combination of navigation and weather forecast.