# System requirements of weather app

## Introduction

This document is intended for the manager of product,software engineer or others who take part in the development of this app.It aims to give more details of product to our partners ,helping them learn about their role in the process of developing app and simplifying their work.Others can also learn about our product roughly with this document.

How will it be used:There are 7 parts of our document.You can read it generally and find what you need to help you work.

## Product scope

### Benefit

For the elderly people,they have requirement of knowing something information about weather in anytime and anywhere.However,it's inconvenient for them to use the commom app because the elder don't used to use advanced technology and could have some physical problems like presbyopia.So,our app can solve their problem and improve their life quality.

### goals

1. devise the app which have a special desion in interface or function for the elder.
2. help the elder to solve their problem and benefit them.
3. promote and popularize new product to more people.
4. achieve profitability.

## Product value

As we targeted the old. This weather app will be easer to use. We hope those who haven't enjoied or can't use them as their wishes can link the magical weather app to help to make their live more convenient.

## Intended audience

1.elders with smart phone but may not good at using it(use simple interface)

2.elders who care about weather of their city or their children's city.

3.elders with poor vision(the reading out function and big script may help them)

## Intended Use

1. provide weather information(temperature,weather,wind power,air condition) this time and 15 days weather forecast.
2. be able to provide weather of user's and their children's city

## General description

this weather app which could provide users temperature ,humidity,weather conditions ,wind speed ,air quality and so on targets at the elders .Due to the fact of this targeted group,these things as follows should be considered.Firstly,they may has trouble with high technology and has poor hearing or eyesight.Secondly ,they may care about their children who don't live with them.What the app do to solve these two problems is our uniques. And proceeding with this article to gain more details

## Essential features

**1) Check weather information**

a)       Open the app

b)       Log in

c)       Ask if the user wants to look through the weather

d)       Popupa wiodow to confirm

e)       Connect to the Internet

f)        To locating

g) Connect to weather Information（weather station）

h)       Save common cities and display them all the time,and displays the current city and relocates it upon log in

l  If the location city changes，ask if they want to keep that place as common

l  Weather information for multiple cities can be added in our program，users only need to repeat the preceding steps from positioning to connecting

**2) Log in**

a)         enter phone number or e-mail number

b)         enter password

c)         click the chack button

**3) Locating**

1. Get the GPS permission

b)  Positioning (Google maps)（each time they log in）

c)       Confirm the location

d)       if yes ，upload the location

else ，Site search（Google maps）

return to if

**4) Operating guide**

1)       Procedure for creating a usage guide

2)       Collecting User Information（before log in）（about their ages and experience）

3)       If elders or no experience，connection Usage Guide（APP guidance）

else，ask if they would like a guide

if yes， Connection Usage Guide

if no， Login page

**5)Language**

English,Chinese,French,Spanish,Arabic

**6)Audio output**

## Desirable features

**1) Select text size**

a) Create the change text size option

b) Connect to the text appearance library

（Provides current and previously saved font information）

c)       Select

d)       Simulated the new home page appearance（test）

e)       Ask them if they save the size

if yes，create and save it

else, back to select

**2) Selected appearance**

**3) Selected function**

l  Personal recommending

l  Choose personal requirement

l  Get information push or warning tone

l  Whether read it out or not

the same as select text size

**4) Voice broadcast**

a) Broadcast the weather information when they first log in（radio station）

b) Ask users if they want to keep this function for help

If yes, read out the weather loud every time they log in or they touch the information

Else no broadcast

c) Create the timing broadcast option

d) If the function is chosen,ask users choose a time for a scheduled broadcast

l  The broadcast is based on news or weather website

**5) Provide advice**

**<1>**

1. Create some suggested function blocks，about wearing，traveling，schedule，sports，activities

b)  Get weather information and check the temperature changing about the target cities according to the location

（weather information：temperature changing，humidity changing，cloud cover,

weather condition，ultraviolet，light，air quality）

c)     Analysis the weather data

d)     Make some suggestion according the results of the analysis，with help of big data and Internet

**<2>**

a)      Collecting User Information（before log in）（about their ages and experience）

b)      Provide users some Suggested function Options，and select

c)      The selected functions are displayed in different blocks

d)      Create a suggested function chosen option，for users if they want to change the function they have ever chosen

e)      Provide pre-samples of their selected features

f)       Confirm their choice

l  If new suggested functions are created，ask users if they want to add

**6) Remind function**

1. Create a library，with help of Internet，big data and programmers' experience

（such as umbrella for rainy day,mask for haze，sun cream for ultraviolet）

1. Ask users if they want this function,there gives two moods as a choice

Choose a time for the alarm to remind（radio station）

Make a popover to display on the screen

1. Users can also add things they want to be reminded of.

They can open their calendar and add reminders

Attached：some care can be added in remind function

Such as:

n  Nice looking interface

n  Show concern in system alerts

**7) Contact function：bind their apps to their kids’ app**

**i.  Displays weather information about two places**

**ii.  make a quick phone call to each other**

**make a phone call if weather is bad ,reminder them to bring suncream or umbrella**

a) create a channel for making a phone call

b) get the address book permissions

c) switch to the call function

**iii.  send some message to each other on app**

a ) create a channel for sending information

b) pop-up input entry

c) send and get the message

**8) Binding**

a)         Opening the binding screen

b)         Enter the peer user account and sending a binding invitation

c)         The other user is prompted and decides whether to bind

d)         Successful blinding

n  Users can get the weather information of the other user in the main interface

n  Users can send and receive messages from each other