

Team Name: Sunshine boys Project

App Name: SB Weather

File: Requirement Analysis

Fall 2020

Introduction

This document will show the requirements for the project. It will give a brief explanation as to why we think the requirement is necessary and

System Overview:

The app is being designed to be easy to use and readable for anyone who is interested in monitoring weather on their own. The goal is for people that are beginning weather monitoring not to be overwhelmed by the complexity of other app/station setups.

When the app is completed it should allow users to create and register their accounts, if they forget their passwords, there should be a way to recover the account. If they wish to close their account, they should be able to. Account information will be stored on a separate server called Firebase. The user will be able to view different pages throughout the app. Clicking on links within the app should take the user to where they are expected to go.

Design Considerations:

Assumptions and Dependencies

The group is under the assumption that we have the necessary knowledge to complete
The app depends on the firebase server to be functional to store account details and reading information
Assumes users understand what we are measuring and what to do with it

General Constraints

Time is the largest constraint for this project, whether we will be able to learn and implement the ideas we have at the right pace to complete the project in time.
Size of the database determines the amount of readings/ frequency of readings
Must run on the minimum API of 23
Must link to the device created in Hardware course.
Must make use of Junit Testing

Goals and Guidelines:

The app should have landscape and portrait mode compatibility
The app should provide bilingual support (French and English)
The app should display history of data for each sensor

Requirements:

Business Requirements

- Provide weather tracking for North American residents.
- Users have control over account deletion
- Provide database for user accounts
- Provide database for user readings from sensors.
- Allow users to access multiple devices through one account (industrial purposes)

Design Requirements

- Client can see a main dashboard that will show the readings from all the sensors.
- User can see history of readings and refresh the page whenever they like.
- Customer can add alerts for criteria being met for readings.

System Requirements:

- Readings display:
- Page can scroll up and down to fit all readings onto one page
- Separate displays for each reading being captured
- Ability to refresh the readings
- Ability to view history of readings