

Software Requirements Specification   
for the Development of

**Date:** 6th November, 2023

**Ref #**:

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**Customer:** Jordan C. Nwabuike

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**Document Approval**

| **Name** | **Company** | **Position** | **Signature** | **Date** |
| --- | --- | --- | --- | --- |
| Jordan C. Nwabuike | **InSIST Global**  (Service Provider) | Software Engineer Intern |  | 6th November, 2023 |
|  |  |  |  |  |

# Introduction

This document should be used after a client has confirmed interest in purchasing an InSIST software Package. Use this document to collect all requirements (including customizations). It will gauge the level of work to be conducted and its content will be used for contract signing

## References

*List any documents, site or individuals to which this SRS refers (such as contracts and PID). Provide enough information so that the reader could access a copy of each reference, including title, description and document reference number.*

| **Name/Title** | **Description** | **Ref. #** |
| --- | --- | --- |
| OpenWeatherMap API Documentation | This document provides detailed information on how to use the OpenWeatherMap API to retrieve weather data. The API is used as the primary data source for our weather app. | OpenWeatherMap API Documentation |
|  |  |  |

## Product Scope

*Provide a short description of the software to be deployed; its purpose, the problem being addressed, and relevant client benefits.*

**Name of Solution: Weather App**

**Product Description:**

| **Why do they need the system?** |
| --- |
| To check weather conditions easily from their present location without passing through the stress of  manually searching for weather updates or relying on multiple sources for accurate and up-to-date weather information. |
| **What are the current process constraints/limitations they would want to change?** |
| Users want to change the current process constraints and limitations, which include the inconvenience of wasting time checking multiple websites or apps for weather information. Additionally, they want to eliminate the need to manually switch to a different location to obtain specific weather conditions. |
| **Intended users and how many?** |
| General customers who need weather updates for their daily activities. |
| **What do they intend to achieve from the system?** |
| Users seek a system that provides convenience, location precision, a user-friendly interface, reliability, and efficiency in accessing up-to-date and accurate weather information. |
| **Can the solution solve the clients issues? (this is for internal use)** |
| Yes. The solution effectively addresses the clients’ issues by offering a user-friendly, efficient system with convenience, location precision, and reliable access to accurate, up-to-date weather information, aligning with client’s goals. |
| **Actions needed to improve system to meet clients goal (this is for internal use)** |
| To enhance the system to meet the clients' goals, consider actions such as expanding user customization, integrating more data sources, providing user education, and optimizing performance. |

# Overall Description

## Product Functions

*Provide a high level summary list on the major functions of the software to identify the groups of related requirements.*

## User Classes and Characteristics

*This section shows the expected system users and their characteristics*

| **User Classification[[1]](#footnote-0): \_\_\_\_\_\_\_ (Everyone)**  **User Description: Open for everyone to access** | |
| --- | --- |
| **User attribute** | **Description** |
| Current constraints | Ability to check accurate weather conditions without going through the manual route. |
| User Expectation | To be able to view weather conditions from a comfort zone. |
| IT experience level | Being able to surf the Internet/web browser. |
| Frequency of System use | As much as you can. |
| Mandatory to use the system? | No. But for easy accessibility to the future or present weather information, yes, it’s mandatory. |
| Number of users in class | Many. |
| Training required / received | No training required. Just the ability to surf the internet and web browser. |
| Regular user tasks |  |
| **User Classification:**  **User Description:** | |
| Current constraints |  |
| User Expectation |  |
| IT experience level |  |
| Frequency of System use |  |
| Mandatory to use system? |  |
| Number of users in class |  |
| Training required / received |  |
| Regular user tasks |  |

## Current Client Status

| **1. Main work-flow currently in use by the customer to perform the software tasks** |
| --- |
| Manually check weather information by viewing the cloud's condition or by contacting a person in another geographic zone in order to know the weather situation in that zone. |
| **2. Are the Staff willing to use a software solution? (Yes/No)\** |
| Yes. |
| **3. Do you have the infrastructure needed to adopt a new system (i.e computers and wifi)? (Yes/No)** |
| Yes. |

## Operating Environment

*Describe the environment in which the software should operate (the hardware platform, operating system/browser, hosting option).*

## Design and Implementation Constraints

*Describe any issues that will limit the options available to the developers such as interfaces to other applications, language requirements, deployment options or any assumed factors*

# 3 System Features

*List the system features, its description and the functional requirements[[2]](#footnote-1).*

| **Feature** | **Functional Requirements** |
| --- | --- |
| Accurate Weather Data Source. | 1. OpenWeatherMap API. |
| User-friendly Interface for users. | using Next.js and TypeScript Tech stacks. |
| Ability to search for weather conditions in another zone. | using hooks in React to perform the function. |
| User interface styling | Using Tailwind CSS |
|  |  |
|  |  |
|  |  |

# 4 Other Requirements

### **4.1 Reports & Charts**

Provide a list of all reports and charts required by Client – specify if report design is provided by developer or Client

| **Name** | **Type** | **Design Source[[3]](#footnote-2)** | **Description** |
| --- | --- | --- | --- |
|  | Report | Client |  |
|  | Chart | Developer |  |
|  |  |  |  |

### 4.2 User Documentation/Support

*List the user documentation (user manuals, on-line help, and tutorials) that will be delivered along with the software.*

1. User Classification is the user group or job family e.g Clerk, Front desk staff, cashier etc [↑](#footnote-ref-0)
2. *Functional requirements describes what the system is expected to do. It also explains how the system should react to particular inputs ; e.g the feature is to automate payroll and the system requirements includes allowing user to insert payroll deductions, loans and request etc*  [↑](#footnote-ref-1)
3. Design source is the individual providing the design or format of the proposed documentation. Customized report designs will be provided by the Client [↑](#footnote-ref-2)