# Functional Requirements Specification for OpenWeatherMap.org



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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the functional requirements for OpenWeatherMap.org, a platform providing users with comprehensive weather information and personalized services.

## 1.2 Scope

OpenWeatherMap.org provides users with personalized weather information and a range of services. This document outlines specific features related to the homepage, user registration, and login.

#### 1.3 Document Conventions

Bold Text: Represents section headings.

Monospace Text: Indicates code snippets or examples.

#### 1.4 Intended Audience

This document is intended for developers, testers, project managers, and other stakeholders involved in the development and enhancement of OpenWeatherMap.org.

## 2. System Overview

## 2.1 System Description

OpenWeatherMap.org is a web-based platform that provides real-time weather information, forecasts, and personalized services based on user preferences.

## 2.2 System Architecture

The architecture follows a client-server model, where the client interacts with the server to request and receive weather information. The server processes user requests and retrieves data from external weather sources.

## 3. Functional Requirements

## 3.1 Homepage

#### 3.1.1 Description

The homepage should provide users with easy access to key features and navigation options.

#### 3.1.2 Features

Weather in Your City: Display current weather conditions for the user's default location.

Guide: Provide helpful guides for users to understand and utilize OpenWeatherMap services.

**API**: Direct access to information about available APIs and subscription plans.

**Dashboard**: A personalized weather dashboard for registered users.

**Marketplace**: Access to a marketplace offering additional data sets and products.

**Pricing**: Clear and transparent pricing information for subscription plans.

Maps: Interactive weather maps for visualizing weather conditions globally.

Our Initiatives: Information about OpenWeatherMap's social and environmental initiatives.

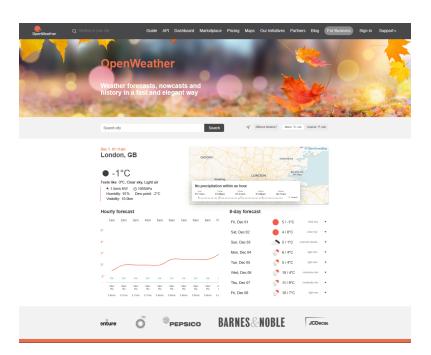
**Partners**: Showcase partnerships and collaborations with other organizations.

Blog: Latest updates, articles, and insights about weather and technology.

For Business: Information and services tailored for business users.

Sign In: Access to user accounts for registered users.

**Support**: Customer support and assistance.



#### One Call API 3.0





Use our Professional collections to get extended weather data for any coordinates on the globe
For professionals and specialists with middle and large sizedended data sets, or various tools for receiving and display

















Our fechnology Time Machine, has allowed us to enhance data in the Historical Weather Collection Internal weather data in new stational Weather Collection Internal weather data in new scalable for any occidentes and the depth of historical data has been extended to 40 years.

#### How to obtain

Marketplace of prepared data sets (cities, zip codes, grids)

On-the-fly bulks for customized lists of coordinates



APIs (city-based, up to 1 year back; subscriptions with various limits on calls/min, data availability, and service)

App Store

RMetS Royal Meteorological Society

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## 3.2 User Registration

#### 3.2.1 Description

Users should be able to create accounts on OpenWeatherMap.org to access personalized weather features.

#### 3.2.2 Features

Registration Form:

Fields for username, email, and password.

Privacy notice and consent for information use.

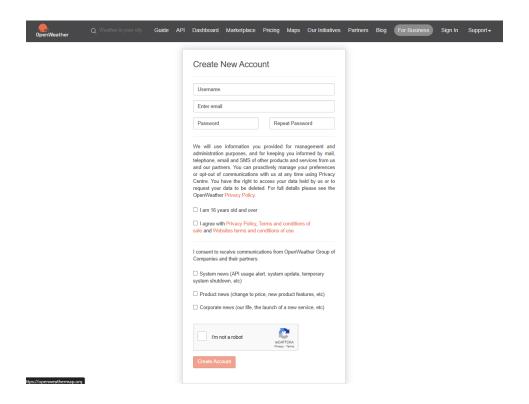
Checkbox for user agreement with Privacy Policy, Terms and Conditions of Sale, and Website Terms and Conditions of Use.

Age verification statement: "I am 16 years old and over."

#### 3.2.3 Acceptance Criteria

Users can successfully register with required information.

Age verification is mandatory for users.



## 3.3 User Login

## 3.3.1 Description

Registered users should be able to log in to OpenWeatherMap.org to access their personalized weather dashboard.

#### 3.3.2 Features

Login Form:

Fields for email and password.

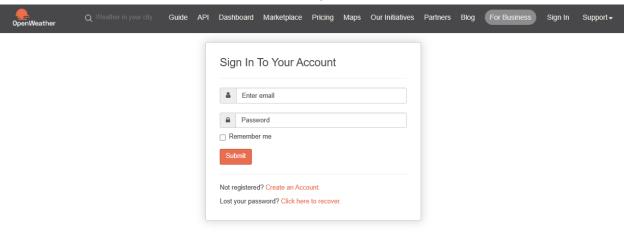
"Remember me" checkbox for persistent login.

Links for users not registered and password recovery.

## 3.3.3 Acceptance Criteria

Users can log in using their email and password.

Users can choose to be remembered for future logins.





# Conclusion

This Functional Requirements Specification provides a comprehensive overview of the features and functionalities expected in OpenWeatherMap.org. It serves as a foundation for development, testing, and ongoing system maintenance. Stakeholders are encouraged to refer to this document throughout the project lifecycle to ensure alignment with the intended goals and objectives.