Sportify
Software Requirements Specifications

Version 2.0

Revision History

Date	Version	Description	Author
02/10/2022	<1.0>	First complete draft of Software Requirements Specifications	Firangiz Ganbarli
08/10/2022	<2.0>	Proofreading, additional tweaks	Firangiz Ganbarli

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Software Requirements Specifications

1. Introduction

1.1 Purpose

The purpose of this document is to describe the external behavior of the application, the nonfunctional requirement specifications, design constraints and other factors necessary for a complete description of the requirements for a meetup based social media app for sport enthusiasts.

The intended audience of this document includes the developers of this app, as well as the technical assessment personnel of the organization.

1.2 Scope

The software system to be produced is called Sportify which is a social media platform for sport meetups, hosting and organizing activities that are geared towards sport enthusiasts.

Sportify will allow users who are interested in finding sport events around them search for their specific interests, sign up and subscribe to different event and sport categories. The web app will also allow people looking to host sporting events to create an event with the necessary information to publicize and get people interested in their event, and they will have the ability to delete or update their event information.

Sportify can be used by the public to sign up or create a sport specific meetup. The objective is to be a social platform for people to organize and find sporting events around their surrounding area and allow people to connect with their local sporting community. The users can be both participants or attendees of such sport meetups, or they can also partake in organizing and act as a host as well.

1.3 Overview

The rest of this document contains an overall description of the Sportify software system (Section 2), and the specific requirements for the system (Section 3).
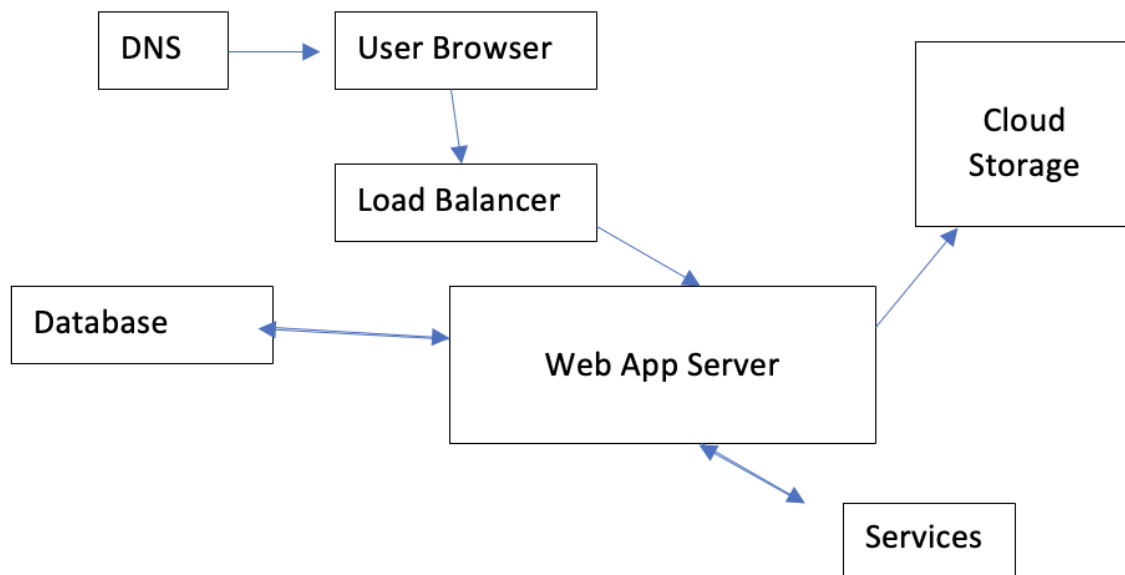
2. Overall Description

2.1 Product perspective

In most of the social media platforms to find events around you, there is no clarity regarding who can sign up or attend the meetups. Additionally, the existing meetup platforms do not have a specific category or a set audience, therefore, all the information available can become daunting. For sports fans who might not have the chance to engage with their sport a lot in their daily life, making a commitment to attending an event from Meetup or Facebook Events may be too much, however, organizing or finding quick recreational games in their local community are more feasible and accessible. Sportify lets people engage with their favorite sports in any way they can, be it keeping up to date with the sport games going around them, or the small meetups in their local area.

2.1.1 System Interfaces

Sportify is a web app, so we need the web app server. DNS (Domain Name System) helps search the domain name and IP address, so the server receives the request that the user sent. Load Balancer directs the requests to one of the servers and sends an answer to the user. Web App server processes the user's request and will send a JSON file back to a browser, and it will refer to the back-end infrastructure in the database. Database will aid in organizing, adding, searching, and manipulating all the computations, especially with the user account information. And the services are required for when the web application reaches a specific level, so that servers can communicate with the services. Our web app will be stored in the cloud.

2.1.2 User Interfaces

The web app should have a user interface that is available through all the browser and will be responsive regardless of the device being used. Database and Server does not have a user interface, but will be located in the same host to communicate.

2.1.3 Hardware Interfaces

All components of this web app must be able to execute on any browser and on a personal computer.

2.1.4 Software Interfaces

We will be using SQL for our database, with Google Cloud Platform as our cloud storage platform. Out of all the DNS service providers, GoDaddy is the optimal tool for DNS.

2.1.5 Communication Interfaces

DNS communicates with the user's browser for the load balancer and that is connected to the web app server. Our database and overall services communicate with the web app server.

2.1.6 Memory Constraints

The server and database must be able to operate within 256MB.

2.1.7 Operations

The operation for logging in, creating an account, finding, and creating events must be easy and intuitive for all users. Intuitive UI/UX will enable users of any age and any background, with minimal knowledge of computers and the Internet, use the platform without needing additional help.

2.2 Product functions

The two main functions of Sportify social media platform are to allow users to create events that others can sign up for, and to allow any user to search for events around them and sign up.

Users of Sportify can have access to both the search of events and creation of them. For creating events, the organizer of the event clicks on the 'Create Event' page. This page asks for some required fields such as the event name, location, date and time, and the sport category it is in. The host's first name and profile bio will be shown to users as extra information. After all the required fields have been filled out, the organizer can click on the create event button to publicize the event. They can modify the information and delete it as needed.

For users who want to be up to date with the events around them, the home page will list a few events that are going on around them. Search page will allow them to search for a specific sport they would like to partake in, and they can filter and sort the results as wanted. If an event catches their eye, they can click on it to be redirected to Event Details page which will include all the information that the organizer publicized. In this page, they can click on sign up button to RSVP for the event.

In addition to these features, the app will need account management page, in which users can log out, create an account, modify their information, reset their password and more.

2.3 User characteristics

The users do not need extensive knowledge about web technology but should have some familiarity with websites and social media platforms. Otherwise, the app should be user intuitive.

2.4 Constraints

The system needs to enforce user authentication security and guarantee privacy of user data.

2.5 Assumptions and dependencies

No specific assumptions or dependencies.

3. Specific Requirements

3.1 Account Management

3.1.1 The user should be able to create an account

3.1.1.1 For sign-up, they would need to provide their username, email address, a password, confirmation of both of

those, and the city that they live in, and a short bio

3.1.2   The user should be able to log in to their existing account

3.1.2.1   The user can retrieve their forgotten password with a verification email.

3.1.3   The user can log out of their account

3.1.4   The user can modify their account information after login

3.2   Homepage

3.2.1   Homepage displays a list of events near the user

3.2.1.1   The list can be sorted by distance and date

3.2.1.2   The list can be filtered by sport category, distance to the user, or date

3.2.2   The user should be redirected to Event Details page on-click of the event title

3.3   Event Details

3.3.1   Event details page should display the event name, location, date and time, and category

3.3.2   The user should be able to sign up for the event by a click of a button on the event details page

3.3.3   The user can view host's bio and first name

3.4   Search Results

3.4.1   Search Results page should display the list of events that match the user's search query

3.4.1.1   This list can be sorted by distance and date

3.4.1.2   This list can be filtered by sport category, distance, and date.

3.4.2   The user should be redirected to Event Details page on-click of the event title

3.5   Event Creation

3.5.1   Event creation requires the following information: event name, category, date and time, location

3.5.1.1   A cover photo for the event

3.5.1.2   A field called "Description" for hosts to provide more info about the event

3.5.2   The event organizer can click on 'Create Event' button to share the event information publicly

3.5.3   The event organizer can see the first name and bio of the people who signed up

3.5.4   The event organizer can delete and update the information of the event they have created

4. Classification of Functional Requirements

Functionality	Type
3.1.1 The user should be able to create an account	Essential
3.1.1.2 For sign-up, they would need to provide their username, email address, a password, confirmation of both of those, and the city that they live in, and a short bio	Essential
3.1.2 The user should be able to log in to their existing account	Essential
3.1.2.1 The user can retrieve their forgotten password with a verification email	Desirable
3.1.3 The user can log out of their account	Essential
3.1.4 The user can modify their account information after login	Essential
3.2.1 Homepage displays a list of events near the user	Essential
3.2.1.1 The list can be sorted by distance and date	Desirable
3.2.1.2 The list can be filtered by sport category, distance to the user, or date	Desirable
3.2.2 The user should be redirected to Event Details page on-click of the event title	Essential
3.3.1 Event details page should display the event name, location, date and time, category	Essential
3.3.2 The user should be able to sign up for the event by a click of a button on the event details page	Essential
3.3.3 The user can view host's bio and first name	Desirable
3.4.1 Search Results page should display the list of events that match the user's search query	Essential
3.4.1.1 This list can be sorted by distance and date	Desirable
3.4.1.2 This list can be filtered by sport category, distance, and date	Desirable
3.4.2 The user should be redirected to Event Details page on-click of the event title	Essential
3.5.1 Event creation requires the following information: event name, category, date and time, location	Essential
3.5.1.1 Optional cover photo for the event	Optional
3.5.1.2 A field called "Description" for hosts to provide more info about the event	Optional

3.5.2 The event organizer can click on 'Create Event' button to share the event information publicly	**Essential**
3.5.3 The event organizer can see the first name and bio of the people who signed up	**Desirable**
3.5.4 The event organizer can delete and update the information of the event they created	**Essential**