# Software Requirements Specification
for
BonFyr
A Campgrounds Information System

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# Revision History

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|---|---|---|---|

# Chapter 1

# Introduction

## 1.1 Purpose

The purpose of the document is to address the requirements behind building the targeted software; In this case, a web application which acts as a hub for campgrounds around the world and lets users review, acquire information about campgrounds and interact with each other.

## 1.2 Intended Audience

The document is intended for software developers, project manager and the client.

## 1.3 Intended Use

To developers, the Software Requirements Specification provides concise insight into what exactly is expected as an end-product. For project manager and client, this document provides mutual agreement and understanding as to what the product should comprise.

## 1.4 Product Scope

## 1.5 Risk Definition

# Chapter 2

# Overall Description

## 2.1 User Classes and Characteristics

Primary User: General public
Secondary User: Admin

## 2.2 User Needs

Primary User Needs: The Campsite Web App will allow primary users to discover campsites in Bangladesh. Most campers or adventurers in the country struggle to find an ideal camping site, as this requires subscribing to various social media pages and surfing through different opinions in order to find an ideal campsite. Campers need to get acquainted with other campers with similar interest. The camping web application provides a platform for camping-interested people who can acquire all the necessary information about a camp, discover campers with similar interests, and introduce sites of their own.
Secondary User Needs: In case of an error or handling of anomalies, Admins need to check the error from a primary user's perspective, and need to be able to have write properties over any posts.

## 2.3 Operating Environment

## 2.4 Constraints

- Due to its duration of completion restricted to 3.5 months, advanced booking features are absent.

- Paid services such as Google Map features are absent due to low investment.

## 2.5 Assumptions

- Users use the app using a smart phone or any device with a web browser.

- Users understand English.

- Users have an internet connection.

# Chapter 3

# Requirements

## 3.1 Functional Requirements

### 3.1.1 Feature: Create Account

**As a** camper,
**I need to** create a user account
**so that** I can review, add, delete, edit or post campgrounds.

- A user must add email, password and a username to create an account.

- A user cannot create multiple accounts under the same email or username.

- Password should have a minimum length of six characters.

- Optional fields are first name, last name and avatar url.

**Confirmation**

1. From "Campgrounds" page, click on 'Sign up'.

2. A Sign-up form will appear.

3. Fill in the necessary fields.

    - Omitting any required fields and clicking on "Submit" will invoke "Field required" messages under required field(s).
    - Entering an invalid email and clicking "Submit" will notify the user to type in a valid email through a similar form of message.
    - Avatar URL can be left empty.

4. Click on "Submit".

5. System redirects to "Campgrounds" page with flash message "Welcome to BonFyr, User".

    - Any network or unidentified error will redirect the user to the sign up form with the flash message "An unexpected error occurred. Please try again".
    - Once registered, link to the camper's profile will appear on the right side of the top navigation bar in the form of the camper's username.

### 3.1.2  Feature: Follow Camper

**As a** camper,
**I need to** follow another camper(s)
**so that** I can get notified when the camper posts another campground.

- Only a registered user can follow another camper.

- A camper can only be followed if the camper is registered.

- Whenever a camper the user follows adds a new camp, the user will get an in app notification.

- The option to follow will only appear in the followed camper's profile.

**Confirmation**

1. Navigate to a Campground page.

2. Click on the author's profile link under "Submitted by"

3. Author's profile page opens.

4. Click on "Follow Camper".

   - If the user(follower) is not registered, this will lead to the Sign In form with the flash message "You can follow a camper only if you are signed in."
   - If there is a network or unidentified error, the system redirects to the same page with the flash message "An unexpected error occurred. Try again". Option to follow still available.

5. "Follow" button turns to "Following" and flash message saying "You are now following User"..

6. User will receive a new notification if followed camper posts a new campground.

### 3.1.3  Feature: View Camp Demographic and Weather Information

**As a** camper,
**I need to** visit a camp's page and view its price, location, description and weather information,
**so that** I can decide if the camp would be an ideal choice for me.

- Demographic Information includes a camp's pictures, description, price, location and its author's profile link.

- Weather condition includes temperature, wind speed and climate of the camp.

- Temperature should be in degree Celsius, and wind speed in "km/hr"

- Price should be in BDT format

- A user does not need to be signed in to view information about camps

**Confirmation**

1. From Home page, click on "View Our Campgrounds".

2. System redirects to "Campgrounds" page.

3. From "Campgrounds" page, click on a camp's link to go to its page.

   (a) Click on "More Info" in any of the showcased campgrounds to see if it leads to the page of the camp.

      (b) Search for a camp and then click on "More Info" in of the resulted campgrounds to see if it redirects to the page of the camp.

      (c) As a logged in user, if you have added campgrounds of your own, navigate to your profile and click on any of the campgrounds listed under "My Campgrounds" to see if it leads to the camp's page.

4. User can see weather conditions, description, price and location in the camp's page.

      (a) From the camp's page, click on the author's profile link.

      (b) Click on one of the campground's link under "Author's Campgrounds" to see if it leads to the camp's page.

### 3.1.4   Feature: Sending Email to a Camper

**As a** camper,
**I need to** send email to another camper
**so that** I can arrange a booking or gain more information about desired camp.

- Only registered users can send mails to campers.

- Option to send mail will only be available in a recipient camper's profile.

**Confirmation**

- **Prerequisite:** User must be logged in.
  - If user is not logged in, step 4 mentioned in confirmation should redirect the user to the login page with the flash message "You need to be logged in to send mail to a camper.".

1. Navigate to a Campground page.

2. Click on the author's profile link next to "Submitted by".

3. System redirects to author's profile page.

4. Click on "Mail Camper" link/button.

5. "Send Mail" page opens with a form for submitting mail.

   - The form contains a text field and a "Send" button.

6. Fill up the text field and click on "Send".

   - Clicking the "Send" button without filling up the form should notify the user to fill up the text area.

7. System redirects to author's profile with flash message "Mail sent successfully."

   - Any network or unidentified error should redirect the user to author's profile page with flash message "There was a problem sending the mail. Please try again."

## 3.2   Non Functional Requirements

# Appendices

# Appendix A

# Glossary