{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.

{Intended Audience}

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

{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.

{User Classes and Characteristics}

Primary User: General public

\\ Secondary User: Admin

{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.

\section{Functional Requirements}

3.1.1 **Feature: Create Account**

User story:

As a user, I need to create a user account first. Only then I will be able to use the other features.

* A user can set a username for the app.
* A user can create an account simply by signing up with e-mail address.
* A user must set a password for the account.

Confirmation:

* From home page, click on ‘Create Account’.
* An interface will appear.
* The user will be asked to provide a valid e-mail address.
* The user will be asked to set a password.
* The user will be asked to set a unique username.

**Feature: Follow Camper**

User story:

As a user, I can follow another camper and see the camps they have added.

* A user can follow a fellow camper using the app.
* Whenever a camper the user follows adds a new camp, the user will get an in app notification.
* The follower will be able to view the camps added by the camper they are following.

Confirmation:

* Click on the username of the camper you want to follow
* Click on ‘follow’.

\subsection{Feature: View Camp Demographic and Weather Information}

As a user, 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.

\begin{itemize}

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

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

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

\item Price should be in BDT format

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

\end{itemize}

\textbf{Confirmation}

\begin{enumerate}

\item From Home page, click on "View Our Campgrounds".

\item System redirects to "Campgrounds" page.

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

\begin{enumerate}

\item Click on "More Info" in any of the showcased campgrounds to see if it leads to the page of the camp.

\item 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.

\item 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.

\end{enumerate}

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

\begin{enumerate}

\item From the camp's page, click on the author's profile link.

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

\end{enumerate}

\end{enumerate}

\subsection{Feature: Sending Email to a Camper}

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

\begin{itemize}

\item Only registered users can send mails to campers.

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

\end{itemize}

\subsubsection{Confirmation}

\begin{itemize}

\item \textbf{Prerequisite:} User must be logged in.

\begin{itemize}

\item 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.".

\end{itemize}

\end{itemize}

\begin{enumerate}

\item Navigate to a Campground page.

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

\item System redirects to author's profile page.

\item Click on "Mail Camper" link/button.

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

\begin{itemize}

\item The form contains a text field and a "Send" button.

\end{itemize}

\item Fill up the text field and click on "Send".

\begin{itemize}

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

\end{itemize}

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

\begin{itemize}

\item 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."

\end{itemize}

\end{enumerate}