Software Requirements Specification

for

Common Online

NGO Platform

Version 1.0

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Sahyog

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Revision History

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| **Name** | **Date** | **Reason For Changes** | **Version** |
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# Introduction

## Purpose

This is version 1.0 of the Common NGO Online Platform called “Sahyog”. The described system is expected to be used in conjunction with a web application, where it would allow users to see through any NGO events according to the user’s wishes, apply as a volunteer, make a financial contribution and Admin can upload different organizations when indicated upon and their scheduled listings. In accordance with those the respective results will be generated.

## Document Conventions

The font “Times” at font size 18 has been used for section headings. The font “Times” at font size 14 has been used for section sub-headings. The font “Arial” at font size 11 has been used for the content under each section subheading. All subsection content has the same font size, and hence, the same priority. The document was created in accordance with the IEEE template for System Requirement Specification Documents

## Intended Audience and Reading Suggestions

The document is intended for the

* Users- to understand the features that we are providing with the software (Read Section 2 and 4).
* The promotion staff can use this document to gather information that can be useful to them to popularize and facilitate the website usage (Read Section 4).
* Developers can read sections 3, 4, and 5 to get an overall feel of what the software needs to do and all the requirements that are required from/for it.
* Programmers who are interested in working on the project by further developing it or fix existing bugs.
* The organizations which can make themselves listed on the common platform

## Product Scope

“Sahyog” aims to provide an Online common platform(Website) to allow users to enlist the organizations and events in accordance with their requirements directly from the website. The common platform will provide the enlisting of the events and collection points one week prior to the event. The users can browse through the online platform in lieu with their donations (material or financial). The users further than can volunteer for certain events and register for the NGO’s in accordance with their needs. This Common platform will ease the complexities of users as well as various nonprofit organizations and will provide them with a common platform which was non existential till now. This system will lead to a more diversified and more accessible platform to users having different backgrounds with the common aim of societal benefit.

## References

1. <https://gephi.org/users/gephi_srs_document.pdf>

2. <http://www.ijmetmr.com/oljuly2015/MaderlaRajesh-GSatyaPrabha-PVVaraPrasadRao-108.pdf>

3. <https://krazytech.com/projects/sample-software-requirements-specificationsrs-report-airline-database>

# Overall Description

## Product Perspective

“Sahyog” is a brand-new website platform, the likes of which have never been seen before in the online community. Although in its current form, the software is expected to run in conjunction within a local host, after the proper arrangement and testing, the listing in the online world.

## Product Functions

* User visits website complying with the terms and conditions of using the web applications
* Users would be able to see upcoming events.
* Users can browse through events and listings according to their needs (financial or material support).
* The web application collects the user’s data and reviews for betterment of the application
* The application will provide useful links to other organizations webpages if available
* The user may be able to volunteer for any organizational needs if possible

## User Classes and Characteristics

The end user of the website application will be the general public, agreeing to the terms and conditions of the web application. Any user who knows how to browse and enroll his booking/volunteering can easily reap the benefits provided by the web application. The most volunteers/ and those who visit frequently from the website online are to be given a higher priority as the software’s targets as opposed to rogue users.

## Operating Environment

The software will operate as a website application for the user’s in any Windows/Linux/MAC device having appropriate web browsing environments. Better environment preferably includes Google Chrome, Mozilla Firefox, Opera, Microsoft Edge. It will run even on mobile devices having appropriate web browsing application in all the smart-phones for the users. Preferable web browsers include-

* Google Chrome
* Microsoft Edge
* Opera Browser
* Mozilla Firefox
* Safari

Operating Systems preferably should be-

* Windows XP
* Windows Vista
* Windows 7/8/10
* MAC OS X
* Linux

## Design and Implementation Constraints

The biggest constraint will be in server maintenance for large traffic on the website. The validation of nonprofit organizations and their respective events will be a challenge in itself and also blacklisting of rogue users who fail to comply with the website’s policies of images. Developing the web application in such a manner that it works on different web browsers.

## User Documentation

There is no need for any documentation for end users as the entire process is based on click and add functionality. A manual and FAQ, along with a user guided video explaining the user-interface for the client-side operations will be delivered along with the web application.

## Assumptions and Dependencies

The customer shall book not more than one volunteering event on the same day. In case of user donating materials, he/she should specify the amount to be donated to promote better in-coordination in the organizations. The Organizations should provide correct data regarding their events and other services to the Admin.

# External Interface Requirements

## User Interfaces

The user interface will essentially provide to the user which requires their authentication. This essentially contains a clean and easy interface to use. The client has an option to register for an event, update his profile, authentication details and review the organizations on the basis of their events. There would be separate tabs for users which would allow him/her to explore different kinds of events and even filter and rate them according to his requirements. For the admins, there would be different tabs to upload the different events and donation drives and provide user’s links to the self-help groups websites in case of the user’s more needs. There will be a special FAQ page along with an explanatory video for user interface awareness.

## Hardware Interfaces

The platform follows a software platform approach. The quality of the platform largely depends mainly arising on the user’s side. The basic hardware would include any web connected device with an appropriate web browser

## Software Interfaces

The product shall be available for Windows OS, IOS and Android OS. Google firebase has been chosen to serve as the database for the product to save details of user’s and organizations.

## Communications Interfaces

Communication function required the Internet protocol version 6 and it will follow HTTPS. It will use FTP for whole system with local server. And email communication to device to & vice of the system in the later stages.

# System Features

# This section demonstrates Sahyog’s most prominent features and explains how they can be used and the results they will give back to the user. User features include

4.1.1 View the Events and Drives

This feature of the product allows the customer to view the menu uploaded by the Admin.

4.1.2 View web links and organizations to their events

This feature allows the users to view drives, so that they can be presented the events as in accordance with the needs and web links of those organizations if in need of more information.

4.1.3 Enlist for volunteering

This feature allows the users to enlist for volunteering if any openings for volunteers are there in the short/long term.

REQ-1: Ask for the permission from the user to access email service in the later stages, if agreed to do so, the user would receive confirmation message.

## Features for the Administration of the restaurants

4.2.1 Upload the Event Details

This feature of the platform allows the User’s to upload the donation event details/

Drives and have validation of organization’s presence and their respective web links.

4.2.2 Upload the Volunteer Cards

The admins are required to upload the volunteer cards with proper details and details for the customers to view.

REQ-1: Validation of NGO’s

REQ-2: Correct details of the volunteering cards and events/drives

## Database Management

4.3.1 Elimination of Rogue Users

This feature of the software allows the admin to blacklist rogue users.

# Other Nonfunctional Requirements

## Performance Requirements

Website should be scalable so that they can viewed on any platform without distortion. The listings on the web pages and their details shall be mentioned in such a way that they do not cause any ambiguity.

## Safety Requirements

The mandatory age restriction of the users should be of 17 years and above. This software is solely designed for the client’s use and the safety norms also set in accordance with the safety norms stated in the user-client privacy policy.

## Security Requirements

The user should take measures to protect the user data by implementing a program that contains reasonable administrative, technical, and physical safeguards appropriate to the operator’s size and complexity. On behalf of the admin all possible security attributes relating to web security will be rigorously implemented.

## Software Quality Attributes

The web application should be adept at real-time database management to ensure simultaneous listing and delisting of the events. The software should maintain a homogeneity across all operating systems regardless of the performance capability of the system. A basic user understanding of web pages and browsing is a must.

## Business Rules

The web application will follow a non-monetary approach in the short term. Any monetary contribution for this web application will result in a no profit approach for the application builders and will be used solely for the website only.

# Other Requirements

The availability and working of this project depends upon the contact with the Non-Governmental Organizations for their listing of their events, donation drives etc.

The success of the project will be proportional to the number of users accessing the web applications and feedback of the organizations regarding the involvement of users in their drives etc.

# Appendix A

**Glossary-**

**SSL Certificate**

small data files that digitally bind a cryptographic key to an organization's details. When installed on a web server, it activates the padlock and the https protocol and allows secure connections from a web server to a browser.

**Web Application**

An application program that is stored on a remote server and delivered over the Internet through a browser interface.

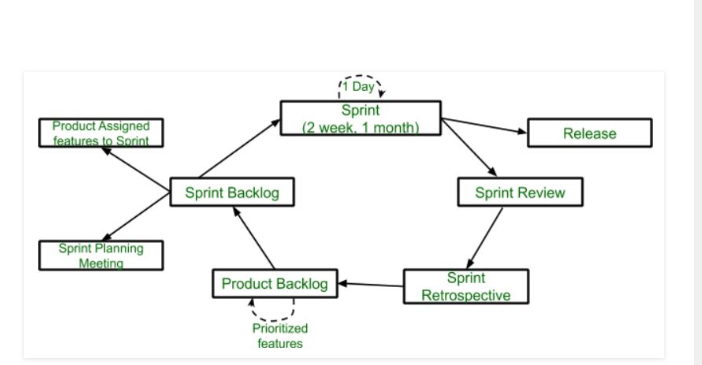
**Web Policy**

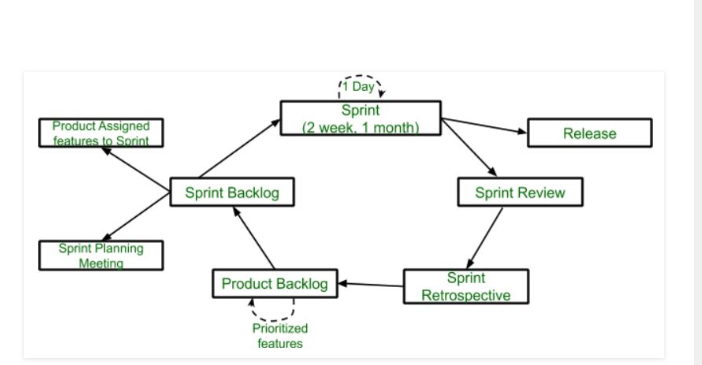
The guidelines and instruction given to employees concerning the use of Internet facilities such as the Web, email and chat conferences.

# APPENDIX B

**MODEL-**

We are using SCRUM Model for this project.





# APPENDIX C

**To be determined list-**