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| Capstone Project Document |

**iVolunteer**

Report #1 - User Requirement Specification

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# SIGNATURE PAGE

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# USER REQUIREMENTS SPECIFICATION

## Introduction

### Purpose

The purpose of this document is to specify the user requirements of the IVSN system in a clear and consistent manner.

### Definition and Acronyms

|  |  |
| --- | --- |
| Terms | Description |
| IVSN | IVolunteer Social Network |
| Project | Volunteering project that User created in the IVSN system |
| Group | Volunteering group that User created in the IVSN system |
| Donator | User who made a donation request to Project |

Table 1‑1: Definition and Acronyms

## Overall Description

### Business Process Overview

### User characteristic

The following roles will exist in the IVSN system.

* **Guest**: Guest is anyone who access into the IVSN system. They are allowed to view all project information that is public in the system. They can use advanced search function to search for project that match with their interests, conditions.
* **User**: User is the one who owns account in the system and logged in into the system. They can join or making a donation to a project. They can follow a Group, or a Project to get updated activity information and make friend with other User in the system. They have right to create a Group, a Project in the system; invite their friend to join into a Group, a Project.
* **Group Leader**: User who creates a group will become a Group Leader. Group Leader has right to update Group information, represent his Group to create new Project, assign Group Leader, remove User from Group and approve User to be a Group member.
* **Project Leader**: User who creates a project will become a Project Leader. Project Leader can create and update information, plan of the project. They have right to assign Project Leader, remove User from Project and are responsible for communicate with User who sent request to donate to Project.

### Product Features

* **Homepage**: Homepage displays all project activity posts, User posts that are public in the system. Depending on the role of person accessed to the system, the content of these posts might be different. For Guest, Project recruitment posts will be prioritized to load first. For User, The Project and Project organized by the Group that User follow or participated in will be displayed first. User Friend posts will also displayed on Homepage.
* **Searching**: Anyone who accesses the system is allowed to search for Project/Group/User in the system by entering its name. The IVSN system also provides advanced search tool allow Guest and User to find Project that matches with their interested topic, destination, their available period of time, and skills.
* **Registration**: Guest must register account and log in the IVSN system in order to join Project, donate to Project, create Group and create Project in the system.
* **Group**: Group is managed by Group Leader. Group is the place where all group members can upload photos, discuss with others by writing posts. Members in Group are able to invite their friend to join in.
* **Project:** Project is managed by Project Leader. In Project there are three sections.
  + Discussion: where all Project members discuss with others by writing posts. Others can interact by click like button or write a comment.
  + Planning: Project Leader has right to create, update project plan. The IVSN system provides Project Leader tool to assign work to Project members in specific period of time.
  + Public: Project Leader can write posts in this section. These posts will be public in the system which means other User will be able to find, like and comment to this post.
* **Following:** User can follow a Project to get its new activity post, follow a Group to get update activity post from Project that this Group created.
* **Profile Page configuration:** User can edit profile information including basic information and volunteering-related information.
* **Comment:** User can react to a post displayed on Homepage/Project/Group by writing comment or click on Like button
* **Posting:** User can write a post in Project/Group to discuss with others. A content of a post might be text or photo that User uploaded from their device.
* **Photo management:** the IVSN system provide User tool to manage their uploaded photos in their Profile page. User can create album to classify their photos.
* **Administration:** The Admin oversees the entire IVSN system and has the right to configure the system, to block and reactive User, Group and Project.

## Functional Requirements

### Guest Requirements

* Guest shall be able to view all Project information, Project plans that are public in the IVSN system. But they shall not be able to view section Discussion in Project.
* Guest shall be required to register to the system in order use all the function as a User can.

### User Requirements

* User shall be able to follow a Project to get its new updated activity information, follow a Group to get all Project activity information created by that Group.
* User shall be able to make friend with other User

### Project Leader Requirements

* Project Leader shall have right to remove User from Project, to approve User to be a Project member.
* Project Leader shall have right to delete any contents including posts, comments, photos in Project.

### Group Leader Requirements

* Group Leader shall be able to represent his Group to create a Project, Group member then shall be automatically added in to this Project.
* Group Leader shall have right to remove User from Group, to approve User to be a Group member.
* Group Leader shall have right to delete any contents including posts, comments, photos in Group.

### Searching requirements

The IVSN shall provide Guest advanced Search tool to find Project that match with their desires (Interested topic, destination, period of time, skills).

### Notification Requirements

* User shall be notified when a work is assigned in a Project, when assigned work is modified by Project Leader.
* User shall be notified when their friend participate in a Project.
* Project Leader shall be notified when User made a donation request to his Project.

### Homepage Requirements

Project which published recruitment shall be prioritized to load first in Homepage.

### Donation Requirement

* Guest shall be required in order to make a donation request to a Project. This request shall be transfer to Project Leader.
* Donator information shall be only displayed in the Project Page after Project Leader confirmation.

## Non-functional Requirement

* **Availability**
* **Security**
* **Maintainability**
* **Extensibility**
* **Usability**: The Graphic User Interface should be elegant and simple.