**SCM Project**

Version 2.0

Revision History

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# Document Approval

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Software : Yellow Givers Online Donation System – Version 2.0

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# Introduction

The introduction of the Software Requirements Specification (SRS) present an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS. The aim of this document is to gather and analyze and give a depth insight of the complete Yellow Givers Online Donation System by defining the problem statement. Furthermore, it also describes on the capabilities required by stakeholders and their needs while defining high-level product features. The detailed requirements related to Yellow Givers Online Donation System are provided as well in this document with respect to user.

## Purpose

The purpose of producing this document is to collect and analyze all the assorted ideas that have come out to define the system and its requirement with respect to the client needs. In spite of that, we shall hope this document is to be used in order to gain a better understanding and control of project, outline for the concepts that could be developed later on and documenting the ideas that are being considered but may be discarded during product develops.

In short of that, this SRS document provides detailed overview of our software product, its functionalities and goals. It also describes the project's target audience and its user interface, hardware and software requirements. It defines how client, team and audience see the product and its functionality of the software is to be built. Nonetheless, it helps designer and developer to assist in software development life cycle (SDLC) process and making their baseline for configuration control.

## Problem Statement

In our study, there are several problems or issues that falls into a reason to develop Yellow Givers Online Donation System as per below:

1. The donors faces difficulties in terms of transportation and time to go to the donation receiver’s places or attending events for making donation
2. The donors waste time and energy with long queues and paper forms to sign up for donation events
3. The donors feels insecure bringing many cashes to their donation receiver
4. The donation receiver will be burden with lots of data entry administrative tasks, tracking and managing donated funds manually.

## Scope

Primarily the purpose of Yellow Givers Online donation is to provide an online platform allow donors to make donation online anywhere and anytime whereby the scope of the project shall meet client requirements as agreed upon project proposal and/or review session. The users of this web based application are divided into 3 groups which are the donor, the donation receiver group and the system administrator itself. Each of the groups has different features applicable for them.

1. **Donor**
   1. Donation List Category : The donor shall view and search by category all available donation requested from donation receiver
   2. Donation Detail List : Donor shall view the details of specific requested donation
   3. Donation Payment : Donor shall able to donate money or funds via online payment gateway
   4. Email Notification : The donor shall received an email status of their donation once they successfully complete making donation online
   5. Contact Us : The donor shall able to send a message to system administrator for further enquiries
2. **Donation Receiver**

* Registration and Log In : The donation receiver shall able to register to become a donation receiver and successful login to system
* Request Donation: The donation receiver shall able to create request for donation by filling up the information required
* View Collected Donation Info: The donation receiver shall be able to view collected donation money or funds received from donors

1. **System Administrator**

* Manage Registered Donation Receiver: The admin shall able to view all registered donation receiver, update or delete their account.

## Definitions, Acronyms, and Abbreviations

This subsection should provide the definitions of all terms, acronyms, and abbreviations required to properly interpret the SRS. The information may be provided by reference to one or more appendixes in the SRS or by reference to other documents.

|  |  |
| --- | --- |
| Term | Definition |
| SRS (Software Requirement Specification) | A comprehensive description of the intended purpose and environment for software under development. The SRS fully describes what the software will do and how it will be expected to perform. |
| The Donor | A person or organization (profit or non-profit) who donates something, especially money to a fund or charity program |
| The Donation Receiver | A person or organization (profit or non-profit) that has the right to received the donation from the donor or making requisition for donation from public |

|  |  |
| --- | --- |
| Abbreviation | Definition |
| PHP | Hypertext Preprocessor |
| SQL | Structured Query Language |
| UML | Unified Modeling Language |
| UC | Use Case |

## References

IEEE std 830 – 1993, IEEE Standard for Software requirements specification IEEE 830

https://wiredimpact.com/library/accept-donations-online-right-now/

http://www.activenetwork.sg/event-management-resources/articles/top-10-benefits-of-online-registration.htm

http://blog.heartlandschoolsolutions.com/6-benefits-of-collecting-school-donations-online

## Overview

Chapter 1 Introduction describes generally about an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS.

Chapter 2 defines the general description includes product perspective interfaces and functions as well as the constraints that might arise in the project development.

Chapter 3 specifies all of the software requirements to a level of detail sufficient to enable designers to design a system to satisfy these requirements and testers to test that the system satisfies these requirements. The non-functional requirements related to performance, usability, security are also discussed in this chapter.

# Overall Description

The following SRS contains the details product perspective from different stakeholders that would use this system and the technologies that is to be used to develop Yellow Givers Online Donation System. Besides, it provides details product functions of the system with user characteristics permitted constraints as well as assumption and dependencies.

## 2.1 Product Perspective

Yellow Givers Online Donation System is web based application and develops using PHP programming language and MySQL database to store the data. It is user friendly system where it is purposely open for individual or any non-profit organization for example to donate money or funds to requested donation receiver or register to the website to advertise the donation contents and get sponsored from the donors. Donation receiver could track and manage donated money or funds automatically whereas the system administrator shall able to maintain the donation receiver information. The donation payment can be made via PayPal account.

### 2.1.1 System Interfaces

The system interface specifies the behavior that the system and component must perform for the users. The behavior maybe expressed as a services, task or functions of the system is required to perform.

**a. Donor**

* + The donor shall view and search by category all available donation requested lists from donation receiver
  + The donor shall view the donation information details for specific donation request
  + The donor shall able to donate money or funds via online payment gateway such as PayPal
  + The donor shall able to received an email status of their donation once successfully complete making donation online
  + The donor shall able to send a message to system administrator for further enquiries

**b. Donation Receiver**

* The donation receiver shall able to register to become the donation receiver and successful login to system
* The donation receiver shall able to make request of donation by filling up the information required
* The donation receiver shall be able to view collected donation money or funds received from their donors

**c. System Administrator**

* The system administrator shall able to view all registered donation receiver, update or delete their account.

### 2.1.2 User Interfaces

* Each of the users shall be in different user interfaces because of different users have different roles in accessing the application.
* The user interface for the software shall be compatible to any browser such as Google Chrome, Internet Explorer, Mozilla or Netscape Navigator by which user can access to the system.
* The user interface shall be implemented using any tool or software package like Bootstrap, Adobe Dreamweaver and etc.

### 2.1.3 Software Interfaces

The required software products for Yellow Givers Online Donation System are described in table 2.1 to table 2.4

|  |  |
| --- | --- |
| Sublime Text: Sophisticated text editor for code, markup and prose. | |
| Name: | Sublime Text 3 |
| Mnemonic: | Sublime Text |
| Specification number: | Sublime Text 3 |
| Version number: | Build 3126 |
| Source: | https://www.sublimetext.com |

**Table 2.1 Software Interface – Sublime Text**

|  |  |
| --- | --- |
| Bootstrap: Most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web | |
| Name: | Bootstrap 3 |
| Mnemonic: | Bootstrap |
| Specification number: | Bootstrap 3 |
| Version number: | V3.3.7 |
| Source: | http://getbootstrap.com/ |

**Table 2.2 Software Interface – Bootstrap 3**

|  |  |
| --- | --- |
| XAMPP : An apache distribution and the most popular PHP web development environment & support MySQL database to store the data | |
| Name: | XAMPP |
| Mnemonic: | XAMPP |
| Specification number: | 5.5.38 |
| Version number: | 5.5.38 / PHP 5.5.38/ PhpMyAdmin 4.5.1 |
| Source: | http://www.apachefriends.org/index.html |

**Table 2.3 Software Interface – XAMPP**

|  |  |
| --- | --- |
| Google Chrome : Chrome is an open source web browser developed by Google, used to access the web-system | |
| Name: | Google Chrome |
| Mnemonic: | Chrome |
| Specification number: | 42.0.2311.152 m |
| Version number: | Google Chrome 42.0.2311.152 |
| Source: | http://www.google.com/chrome |

**Table 2.4 Software Interface Google Chrome**

## 2.2 Product Functions

Below are the list of features that is going to implement in Yellow Givers Online Donation System

* **Donor**
  1. Donation List Category
  2. Donation List Detail
  3. Payment
  4. Email Notification
  5. Contact Us
* **Donation Receiver**

1. Registration & Login
2. Request Donation
3. View Collected Donation Info

* **System Administrator**

1. Manage Registered Donation Receiver

## User Characteristics

1. The user shall be familiar with online web based application to access the system and perform the transaction
2. The user shall familiar with PayPal payment processing to perform the donation

## 2.4 Constraints

1. The user’s device shall need to be connected to the internet in order to access the system and perform transactions
2. The Yellow Givers Online Donation System available only in English Language
3. The payment of the donation can be only made via PayPal account.
4. The donation information shall need be available posted by the donation receiver through application otherwise the donation list category not available for the donor to make donation
5. There is no maintainability of backup, so availability will get affected.

## 2.5 Assumptions and Dependencies

1. The internet shall be available while the donors perform payment donation
2. The database shall able to record the registered donation receiver and the collected amount donation
3. The users, who pay the donation with PayPal, must have their own PayPal account to complete the payment process.

# Specific Requirements

This section of the SRS should contain all of the software requirements to a level of detail sufficient to enable designers to design an application to satisfy those requirements, and testers to test that the application satisfy those requirements.

## External Interface Requirements

This section will cover the interface use by the user of the system. Commonly, this application provides 4 interfaces for the donor, 3 interfaces for donation receiver and 1 interface for system administrator.

### User Interfaces

* + - 1. Donation List Category

The function shall allow the donors to view and search by category all available donation requested lists from donation receiver

* + - 1. Donation List Detail

This function allow the donors to view details information of specific donation item

* + - 1. Payment

The system shall allow the donors to donate money or funds via PayPal online once they fill up the required information donation form. The detail information such contact details etc is required before the system shall redirect the donors to the PayPal payment interface.

* + - 1. Email Notification

This function allow the donor shall received an email status of their donation once they successfully complete making donation online

* + - 1. Contact Us

This function allows the donors to send message to the system administrator shall they have any enquiries.

* + - 1. Registration & Login

This function shall allow the donation receiver to login to system once they successful register as donation receiver to create request for donation

* + - 1. Request Donation

This function allow the donation receiver to create request for donation by filling up the information related such as donation title,date,description,image and etc. and display it on the system

* + - 1. View Collected Donation Info

This function allows the donation receiver to view all the collected donation money or funds that is received from their donors

* + - 1. Manage Registered Donation Receiver

This function allowed administrator to view all registered donation receiver, update or delete their account.

### Hardware Interface

|  |
| --- |
| **Hardware** |
| Dell Vostro 14-5480 Laptop  Intel duo core 2 E4300 1.8GHz  4 GB RAM  500 GB Hard Disk |

**Table 3.1 Requirement Hardware Interface**

### Software Interface

|  |  |
| --- | --- |
| **Software** | **Function/Descriptions** |
| Sublime Text | Sophisticated text editor for code, markup and prose. |
| Bootstrap 3 | use to design responsive websites for frontend and backend design framework |
| XAMPP | Use to setup server environment covers server (localhost) and mySQL database |
| PHP | Server-side scripting language for web development |
| PhpMyAdmin | containing mySQL database use to store application data |
| Adobe Photoshop CS5 | Use for Image Editing |
| Modelio Open Source 3.6 | Open source tools to create UML Modeling |
| Microsoft Office Word 2010 | Used for documentation & presentation slide |

**Table 3.2 Requirement Software Interface**

## Software Product Features

This section details the functional requirements of Yellow Givers Online Donation System for each of the features.

### Donation List Category

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_L101 | The system shall allow the donors to view and search by category all available donation lists requested from donation receiver |

**Table 3.3 Donation List Category**

### Donation List Detail

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_D201 | The system shall allow the donors to view details information of specific donation item before proceed with payment donation |

**Table 3.4: Donation List Detail**

### Payment Donation

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_P301 | The system shall allows the donors to donate money or funds via PayPal online once they fill up the required information donation form |

**Table 3.5: Payment Donation**

### Email Notification

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_N401 | The system shall allow the donor to received an email status of their donation once they successfully complete making donation online |

**Table 3.6: Email Notification**

### Contact Us

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_C401 | The system shall allows the donors to send message to the system administrator shall they have any enquiries. |

**Table 3.7: Contact Us**

### 3.2.5 Registration & Login

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_R501 | The system shall request from donation receiver for input of username and password before access the system | |
| REQ\_R502 | The system shall be able to verify the username and password entered by the donation receiver | |
| REQ\_R503 | The system shall display a home screen if donation receiver successful login | |
| REQ\_R504 | The system shall allow donation receiver to logout after using the application. | |
| REQ\_R505 | The system shall allow a first time user to register as donation receiver before using the application. | |

**Table 3.8: Registration & Login**

### 3.2.6 Request Donation

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_E601 | The system shall allow donation receiver to create request for donation by filling up the information related such as donation title,date,description,image and etc. |

**Table 3.9: Request Donation**

### 3.2.7 View Collected Donation Info

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_F701 | The system shall allow the donation receiver to view all the collected donation money or funds that is received from their donors |

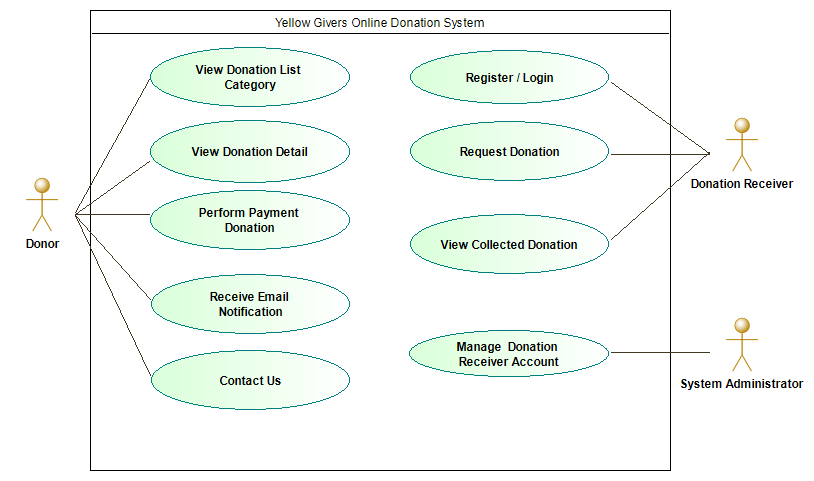
**Table 3.10: View Collected Donation Info**

### 3.2.8 Manage Registered Donation Receiver

|  |  |
| --- | --- |
| Requirement ID | Description |
| REQ\_A801 | The system shall allow the system administrator to view all registered donation receiver, update or delete their account. |

**Table 3.11: Manage Registered Donation Receiver**

All of the functional requirements of Yellow Givers Online Donation System represented using the following use case diagram (Figure 3.1)

**

**Figure 3.1: Use Case Diagram**

The following Table 3.10 shows the use case description for Yellow Givers Online Donation System

|  |  |  |
| --- | --- | --- |
| Use case ID | Use Case Name | Description |
| UC001 | View Donation List Category | The system display available donation lists posted by the donation receiver to the donor’s web page according to category. The donors shall able to select the donation item from category list to make perform payment donation |
| UC002 | View Donation Detail | The user shall be able to view the details of donation for the specific item selected by the donor. The system shall display the detail description for the selected item |
| UC003 | Perform Payment Donation | Once the donors find the donation item they wish to donate, the donor shall need to fill up their contact information and then click the payment button to perform payment transaction via PayPal online. The system shall be redirect the donors to the PayPal website to complete donation process |
| UC009 | Receive Email Notification | The donor will received an email status of their donation once they successfully complete making donation payment online |
| UC004 | Contact Us | The donors click the Contact Us button and the system displays the Contact Us form. The donors shall able to fill up the form to send enquiries to the system administrator |
| UC005 | Registration / Login | The donation receivers access the website and click on the login button. If the user is existing donation receivers, they shall be able to login to the system after enter valid username and password. If the user is new users and wish to create a request donation, they must be register as donation receiver before login to system |
| UC006 | Request Donation | After successful login, the donation receiver shall able to create request donation from the donors by filling up information related to the donation content and click submit button. The system shall able to display the result to the donors’s web pages. |
| UC007 | View Collected Donation Info | The donation receiver shall able to view the list of collected amount of donation paid by the donors. The system shall able to display the result of the total amount of donation for each donation receiver. |
| UC008 | Manage Donation Receiver Account | The system shall allow the system administrator to view all registered donation receiver, update or delete their registered account |

**Table 3.10: Use case description for Yellow Givers Online Donation System**

## Non-Functional Requirement

This section lists the performance requirements expected from Yellow Givers Online Donation System as well as additional other non-functional requirements criteria to consider.

### 3.3.1 Performance Requirement

1. The product shall be based on web and has to be run from a web server.
2. The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.
3. The performance shall depend upon hardware components of the client/customer.
4. The navigation between pages shall take fewer than 5 seconds.
5. The users shall be able to view detail information about an item in fewer than 5 seconds.

### 3.3.2 Usability Requirement

Yellow Givers Online Donation System shall be easy to use, easy to learn, have minimized interface design and the functionality is working according to the functionality provided.

### 3.3.3 Security Requirement

Yellow Givers Online Donation System shall be access by only authorized donation receiver while submit the request for donation.

## Requirement Traceability

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirements** | | **Description** | **Sources** |
|  | SRS\_ REQ\_L101 | The system shall allow the donors to view and search by category all available donation lists requested from donation receiver | UC001 |
|  | SRS\_ REQ\_D201 | The system shall allow the donors to view details information of specific donation item before proceed with payment donation | UC002 |
|  | SRS\_ REQ\_P301 | The system shall allows the donors to donate money or funds via PayPal online once they fill up the required information donation form | UC003 |
|  | SRS\_REQ\_N401 | The system shall allow the donor to received an email status of their donation once they successfully complete making donation online | UC009 |
|  | SRS\_ REQ\_C401 | The system shall allows the donors to send message to the system administrator shall they have any enquiries. | UC004 |
|  | SRS\_ REQ\_R505 | The system shall allow a first time user to register as donation receiver before using the application. | UC005 |
|  | SRS\_ REQ\_E601 | The system shall allow donation receiver to create request for donation by filling up the information related such as donation title,date,description,image and etc. | UC006 |
|  | SRS\_ REQ\_F701 | The system shall allow the donation receiver to view all the collected donation money or funds that receive from their donors | UC007 |
|  | SRS\_ REQ\_A801 | The system shall allow the system administrator to view all registered donation receiver, update or delete their account. | UC008 |

**Table 3.11: Requirement Traceability for Yellow Givers Online Donation System**