Software Requirements Specification
For
“Relief Fund”

Prepared by

Manish Channawar

Rohit Sharma

Priyadarshi Kumar

On

06-Sept-2017

Table of Contents

Table of Contents ..... **ii**
Revision History ..... **ii**
1. Introduction **1**
1.1 Purpose 1
1.2 Intended Audience and Reading Suggestions 1
1.3 Product Scope 1
1.4 References 1
2. Overall Description **2**
2.1 Product Perspective 2
2.2 Product Functions 2
2.3 User Classes and Characteristics 2
2.4 Operating Environment 2
2.5 Assumptions and Dependencies 3
3. External Interface Requirements **3**
3.1 User Interfaces 3
3.2 Hardware Interfaces 4
3.3 Software Interfaces 5
3.4 Communications Interfaces 5
4. System Features **5**
4.1.1 User Class 1 - User 5
4.1.2 User Class 2 - The Relief Camp user 6
5. Other Nonfunctional Requirements **7**
5.1 Performance Requirements 7
5.2 Safety Requirements 7
5.3 Security Requirements 7
5.4 Software Quality Attributes 7
5.5 Business Rules 7
6. Other Requirements **7**
Appendix A: Glossary **8**
Appendix B: Analysis Models **8**
Appendix C: To Be Determined List **8**

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

It's an online social media where people from different places can help peoples who are in need of help in natural calamities or manmade calamities

1.2 Intended Audience and Reading Suggestions

Developer is the main person in this software since databases and web portal should be effectively designed and managed.

1.3 Product Scope

As mankind suffer from many defects in life cycle and these world itself suffering from rapid growth of developed society and civilization it is indeed need for humanity to come in picture.
So, Relief fund is an online social media where people are made aware of the activities that are happening around the world in day to day life. This software system keeps informing the users about the activity or problem faced by peoples and makes a surrounding for the user to communicate, share and help peoples.

Helpers in this context means any user that are acquiring the service provided by this software, can fund money instantly. The major part in this software includes an organization called relief camp, where the organizer collects the details of the victims those who are suffering (from manmade or natural disaster) and these details are uploaded on this software. Individually victim (user) may also upload their details on this software.

Furthermore, the software needs proper authentication to use the benefits of software. Proper authentication like user provides his unique identity and phone number for OTP. It manly focuses on welfare of people.

1.4 References

[1] IEEE Software Engineering Standards Committee, "IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications", October 20, 1998.

2. Overall Description

This section will give an overview of the whole system. The system will be explained in its context to show how the system interacts with other systems and introduce the basic functionality of it. It will also describe what type of stakeholders that will use the system and what functionality is available for each type. At last, the constraints and assumptions for the system will be presented.

2.1 Product Perspective

This system consists of one part that is the web portal. The web portal is used for managing user activities and the system as a whole. It provides user to see news feed by which it helps user to see all the activities going on that particular day, news feed is mainly updated and managed by web portal through internet.

All the user post can be seen through news feed not only these, a variety of communication basis are also provided by means of messaging and also a banking system which allow user to transfer money among the users. All the user data are stored in a database and these data are retrieve by web portal,
Another database is used especially managing the banking system, these banking system is carried out by a merchant portal. All of this database communication will go over the internet.

2.2 Product Function

In this system user are provided with search function in which it can search for a particular user and also it can show any news regarding the natural calamities happening in any corner of the world,
It provides a user to see the profile of another user but cannot accessed another account.

Fund transfer can be carried out according to the user interest as the system has two option for the fund transfer.
The options are: 1:- user to user
Any user can transfer money to anyone according to the user interest.
2:- user to organization
User can transfer money directly to the organization account it can be a government organization by specifying the particular victim name or without specifying name which means the money goes to their organization.

Main flexibility of this system is it can communicate to any user through massaging option. Every time when a transaction is made by any user, the transaction details is stored in the database for future review and the helper name is highlighted in news feed(if the helper wants its name to be highlighted) along with name user can also enable to highlight if he/she wants to its optional.

2.3 User Classes and Characteristics

There are two types of users that interact with the system: users that are availing the feature of the software and administrators. Each of these two types of users has different use of the system so each of them has their own requirements.

The users can only use the Relief fund site to log in and avail the feature that are provided by the software. This means that the user have to be able to log out also and choose any feature either from that search panel or directly choose the panel that are directly seen on the screen then navigate to it. In order for the users to get a relevant search result there are multiple criteria the users can specify and all results matches all of those.
Not only just searched options there is also option for banking and messaging which are main focus of these software to help people by sending some money or probably made aware of the things happening around the world, user are given full control over their account with security.
The administrators only interact with the web portal. They are managing the overall system so there is no incorrect information within it. The administrator can manage the users account in providing full-fledged security.

2.4 Operating Environment

Since this a web based application the operating system does not matter. This application just needs a browser that can parse the html and css.

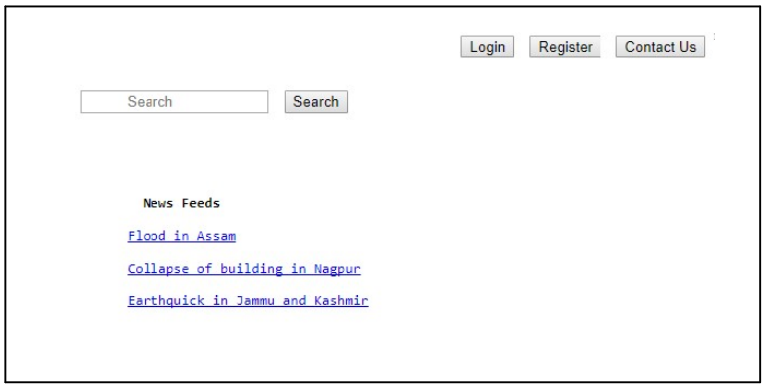
2.5 Assumptions and Dependencies

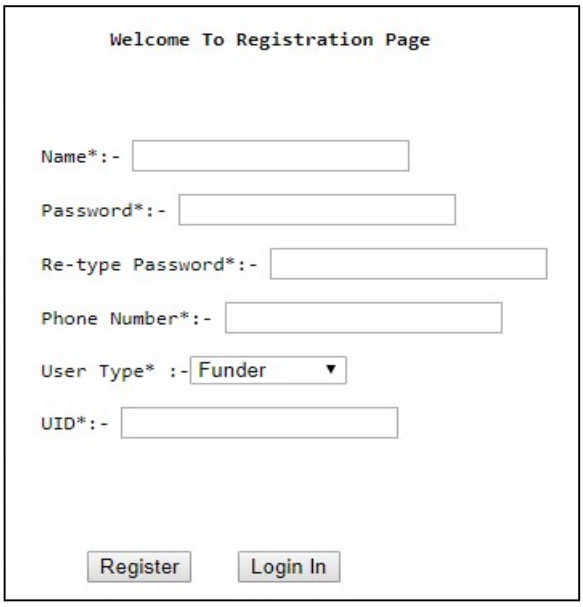
One assumption about the product is that it will always be used on mobile phones or computer that has enough performance including internet connection. If the phone or computer does not have enough hardware resources available for any browser's for example the users might have allocated them with other applications or other browser's where connection is poor, there may be scenarios where the browser does not work (i.e. does not respond to the web site) as intended or even at all.

3. External Interface Requirements

3.1 User Interfaces

When user opens the website, he sees a website as shown in figure. It includes a search-bar, Login button, register button, contact us button and main News Feeds where user can see where news from disaster is described (fig-1)
When user clicks login the page looks like as the figure-2
Register is clicked the page is as shown(fig-3) in here the user can specify whether he is a helper or relief camp or request help(fig-4)





3.2 Hardware Interfaces

The web portal does not have any designated hardware; it does not have any direct hardware interfaces. The database server is managed by the underlying operating system on the web server.

3.3 Software Interfaces

The communication between the database and the web portal consists of operation concerning both reading and modifying the data system

3.4 Communications Interfaces

The communication between the different parts of the system is important since they depend on each other. However, in what way the communication is achieved is not important for the system and is therefore handled by the underlying operating systems for both the mobile application and the web portal.

4. System Features

This section includes the requirements that specify all the fundamental actions of the software system

4.1.1 User Class 1 - The User

4.1.1.1 Functional requirement 1.1

ID: FR1
TITLE: User registration
DESC- Given that a user has entered website then the user should be able to register through the registration page. The user must provide user-name, password and e-mail address. The user can choose to provide a regularly used phone number.
REQ: In order for a user to register on the registration page.

4.1.1.2 Functional requirement 1.2

ID: FR2
TITLE: User login
DESC- Given that a user has registered, then the user should be able to log in through the login page. Every time a user tries to log in an OTP is sent for user authentication.
REQ: In order for a user to login on the login page.

4.1.1.3 Functional requirement 1.3

ID: FR3
TITLE: Search for victims
DESC- Given that a user has logged in , then the user should be able to see the news feeds uploaded by various relief camp.
REQ: In order for a user to login on the login page and search for victims.

4.1.1.4 Functional requirement 1.4

ID: FR4
TITLE: user funding through relief camp
DESC- Given that a user has searched the victim and place, he would be able to get the description of the victim user can transfer money to relief camp
REQ: In order for a user fund for the searched for victims.

4.1.1.5 Functional requirement 1.5

ID: FR5
TITLE: user funding directly to victim
DESC- Given that a user has searched the victim and place, he would be able to get the description of the victim. user can transfer money to the victims bank account itself
REQ: In order for a user fund for the searched for victims.

4.1.2 User Class 1 - The Relief camp user

4.1.2.1 Functional requirement 2.1

ID: FR6
TITLE: The user registers as Relief camp
DESC- Given that a user is a member of relief camp, he can register as a member of relief camp where unique UID, Relief camp id, phone number are used for user authentication
REQ: In order for a user to register as relief camp member .

4.1.2.2 Functional requirement 2.2

ID: FR7
TITLE: The Relief camp user to login
DESC- Given that a user is registered as a member of relief camp, he can login using OTP of his mobile number
REQ: In order for a the relief camp user to login as relief camp member

4.1.2.3 Functional requirement 2.3

ID: FR8
TITLE: The Relief camp user to post victims and place
DESC- Given that a user is registered as a member of relief camp logs in, he can post for the affected victims and place
REQ: In order for a the relief camp user to post news about victim and affected places.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

5.2 Safety Requirements

<Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product's design or use. Define any safety certifications that must be satisfied.>

5.3 Security Requirements

<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>

5.4 Software Quality Attributes

<Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.>

5.5 Business Rules

<List any operating principles about the product, such as which individuals or roles can perform which functions under specific circumstances. These are not functional requirements in themselves, but they may imply certain functional requirements to enforce the rules.>

6. Other Requirements

<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

Appendix A: Glossary

<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>

Appendix B: Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they