Software Requirements Specification

TEAM "Almost Software Engineers"

Team Number:12

Name	SRN
Sahana Evangeline	PES2UG20CS543
Akshaya	PES2UG20CS579
Snehith H	PES2UG20CS557
Veekshith Raj S Doshi	PES2UG20CS570

Introduction

1.1 Document Purpose

The product whose software requirements are specified in this document is Helping-Hands .

The purpose of this document is to present a detailed description of the product, Helping-Hands. This document is intended to

- Explain the purpose and features of the project, Helping-Hands
- The constraints under which the product must operate
- How the product would respond to different users' requests.

The document's primary goal is to help the reader get a better understanding of the project.
The document is intended for the developers of the software, the end users of the product who have been identified in the later sections, and to the professors who would review the project.

1.2 Product Scope

The software being developed is a web-based Donation system. Helping the people in need.

- Donation of food grains clothes money and other essentials.
- Implementing a feature to provide the admin the ability to track the storage the number of donation requests and number of donations that have taken place.
- Providing the users to donate anonymously without them sharing their data

We are developing a system which would make the donation systems more accessible and more transparent to the users .

1.3 Intended Audience and Document Overview

1.3.1 Intended Audience:

This document is primarily intended for the:

- Developers of this software
- Software engineers who would work on further development of the project
- The professors who would review the document
- Admin who will be operating the web applications

1.3.2 Document Overview:

This document is intended to provide a overview of the entire project for the clients the functional and non-functional requirements the different tools that will be used during the development will be discussed.
The requirement that will be built and the constrains for those requirements and the platform that can support its operation.

1.4 Definitions, Acronyms and Abbreviations

1	Donor	A person who donates something like money ,food and other essentials to charity or to people in need.
2	Donee	A person who receives the aid could be money food and other essentials
3	Admin	A person or a group of people who would facilitate the communication between the donars and the donee.
5	SRS	SRS stands for Software Requirement Specification. It is a document that completely describes all of the functions of a proposed system and the constraints under

		which it must operate.
6	Team Head	Team head is an individual who is responsible for all the actions undergoing under his/her team.
7	UI	UI stands for User Interface. It is defined as the space where interaction between humans and machines occurs.
8	View	View means to display and look at data on screen.

Table no:2

1.5 Document Conventions

Formatting Conventions:

- The font style for the headings of each section is Arial Bold and the font size is 14.
- The font style for the headings under each section is Arial Bold and the font size used is 14.
- For the remainder of the document, the font style is Arial and the font size is maintained at 11.
- Italics has been used to indicate comments.
- The text is single spaced and margins are maintained at 1'' separation.

1.6 References and Acknowledgments

1.6.1 References:

- https://help.unicef.org/in/drtv2022?campaignID=7015q0000004oQeAAI&campaignid=17569150762&adgroupid=144897035944&adid=605949172696&gclid=Cj0KCQjwxveXBhDDARIsAI0Q0x0E4qmgTN1zAIOlrpcBA6xqH8LX2U422Wsfjg8y9EvnNyQ1YYrARTUaAojdEALw_wcB

- https://start.milaap.org/crowdfunding/?utm_source=google&utm_medium=cpa&utm_campaign=crowdfunding_cpc&utm_term=websites%20that%20donate%20to%20charity&gclid=Cj0KCQjwxveXBhDDARIsAI0Q0x3KrwKn9le0t5LB_6icDb5hAAa2eTHrPgWvQGYL0YrkUjMG8VaJ5PsaAtPuEALw_wcB

2. Overall Description

2.1 Product Perspective

This web application Helping-Hands is aimed at providing a platform to ease the transactions between the donors and the donee which will remove any middleman in the donation process .
Providing a user friendly interface , and making the donation process even hassle free.

There will be 3 views of the overall event:

- Admin
- Donor
- Donee

The software, Helping-Hand will implement the following functionalities :

- Donating the essentials
- Admin will be able to monitor the transactions
- Direct benefit to the donee
- Different views for different users like admin and donaor etc.

One of the main feature of our project is that it is user friendly and mostly platform independent requires minimal requirements , highly dynamic .

-

2.3 Users and Characteristics

Users

- Admin
- Donor
- Donee

The various users that we expect the software to be used by are:

1.	Admin	A person or a group of people who would facilitate the communication between the donars and the donee.
2.	Donor	A person who donates something like money ,food and other essentials.
3	Donee	A person who receives the aid could be money food and other essentials.

Table no:3

All the above mentioned users are assumed to have a minimal knowledge of the technical aspects of a software product.

2.4 Operating Environment

The software will be designed to work on any version of Windows, Linux and Mac platform. The software is completely web based and runs on popular web browsers namely firefox, chrome,brave etc. These web browsers are preferred since they support HTML.

2.5 Design and Implementation Constraints

We have to design different pages for different types of users such as admin, donors, donee. The implementation part is yet to be done. But, we have a clear picture as to how our pages would look.There are a number of tools which can be used for its implementation which would include Javascript frameworks like node.js mongodb etc.

2.6 Assumptions and Dependencies

Assumptions

The user is familiar with internet and web based software like social networking sites.
The browsers which the user is using is either Google Chrome 10.0 and above or Mozilla Firefox 4.0 and above.

3. Specific Requirements

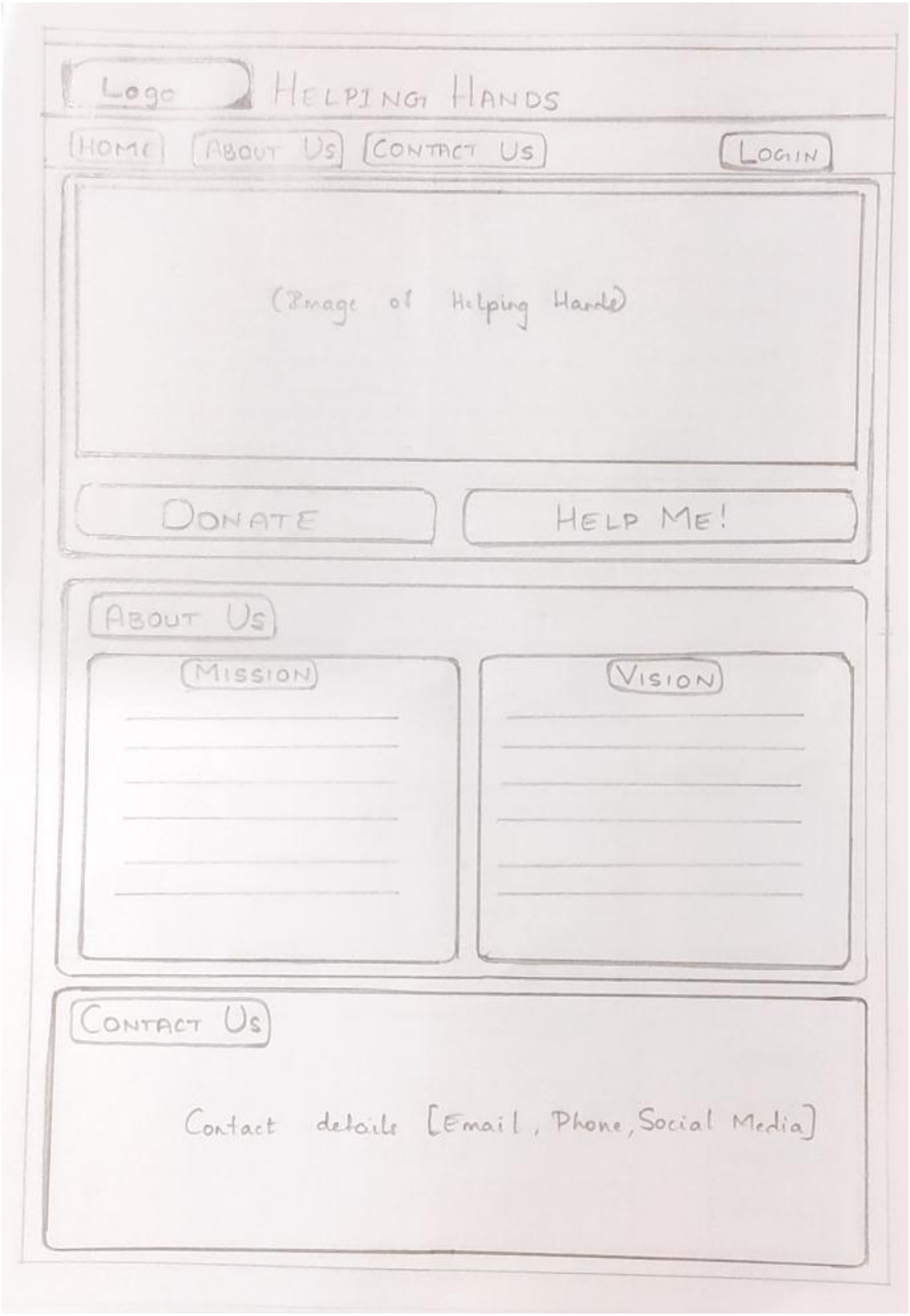
3.1. External Interface Requirements

3.1.1. User Interfaces

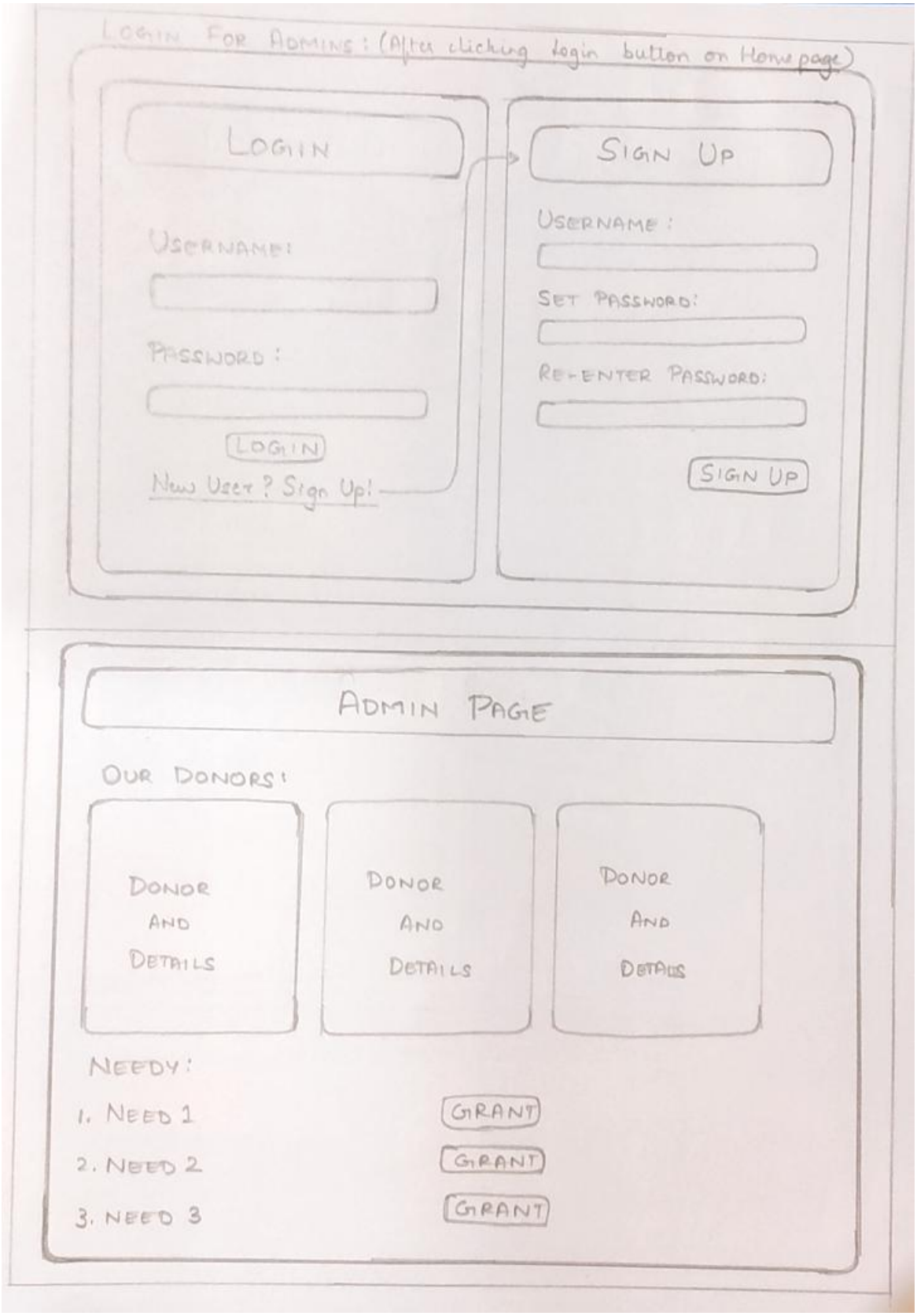
The user interface design is simple and clear. One can very easily view the events which he/she is a part of and can advertise his/her events on the homepage. In this software, Event4u an individual can create a new account to get access to the website and can organise an event using the provided create event option. An user can select the teams which are required. The view is different for all the actors. Event manager organises the event by assigning work to team members and volunteers.

Sample Screenshots:

Dashboard:

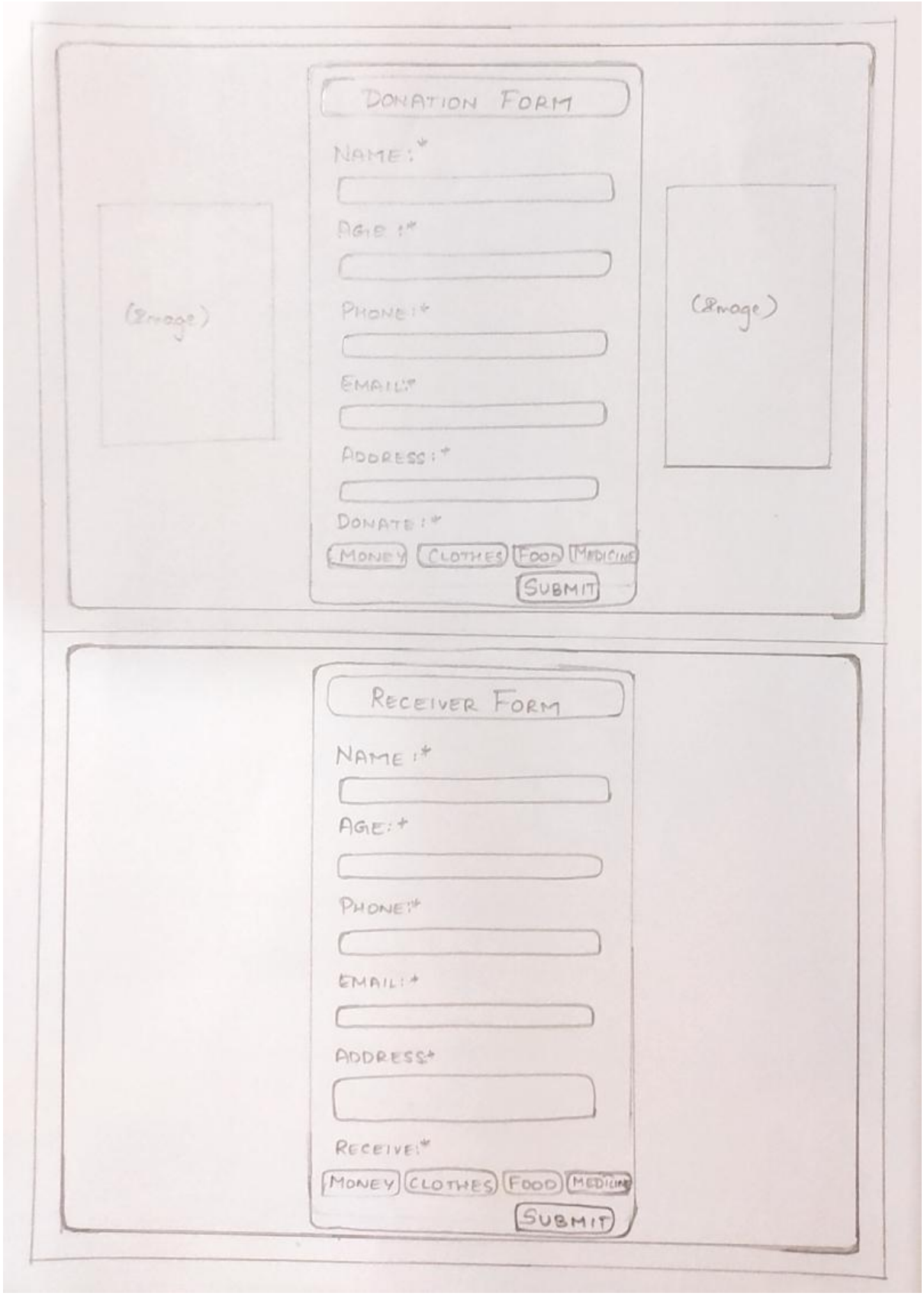

Logo
HELPING HANDS
HOME
ABOUT US
CONTACT US
LOGIN
(Image of Helping Hands)
DONATE
HELP ME!
ABOUT US
MISSION
VISION
CONTACT US
Contact details [Email, Phone, Social Media]

LOGIN PAGE AND ADMIN PAGE:



DONATION AND RECEIVER FORM

VIEW



3.1.2. Hardware Interfaces

Not applicable.

3.1.3. Software Interfaces

The software is operating system independent. It would run on Linux, Windows and Mac.

3.1.4. Communications Interfaces

A web browser is a basic necessity for the software to be deployed. MongoDB Server provides the required authentication for the users and the admin.

3.2. Functional Requirements

The web-based Helping-Hands being specific for donations. It can be used for fund rising activities and other related activities:

- Accessibility:
  Donors/Receivers will have to signup/login to the web application and fill the form donor/receiver forms.

- Donation:
  Donors must be able to donate the requirements such as food, Money, Clothes
  Must be able to view the necessary requirements addressed from the receivers.

- Administration:
  Admins to manage transactions, approve requests and update database

- Database Storage:

Database includes donors/receivers information, donation details and Timely Stock updation

3.3. Behavior Requirements

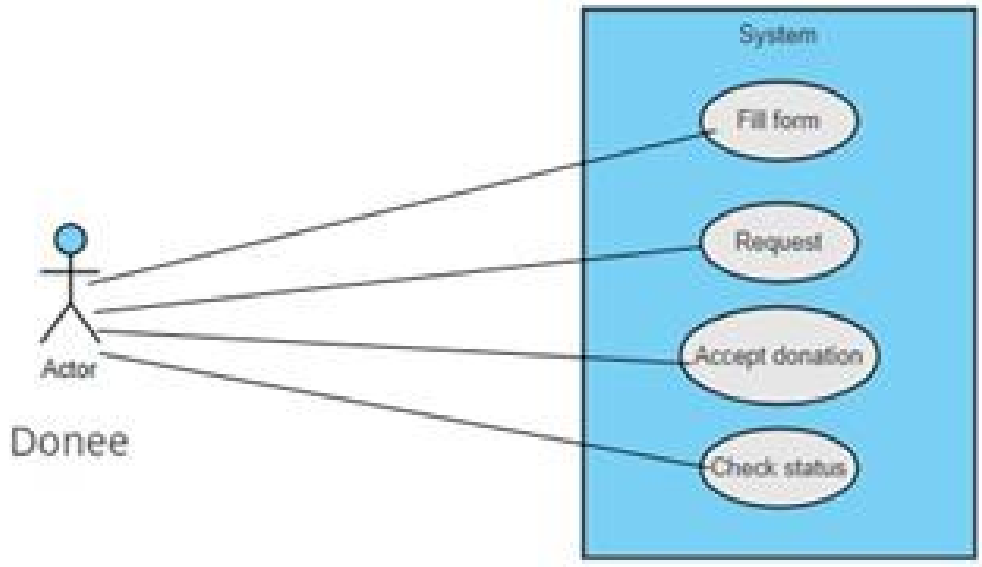
3.3.1 Use Case View

3 actors have been identified for the our application , and each of them are shown with their own set of use cases.

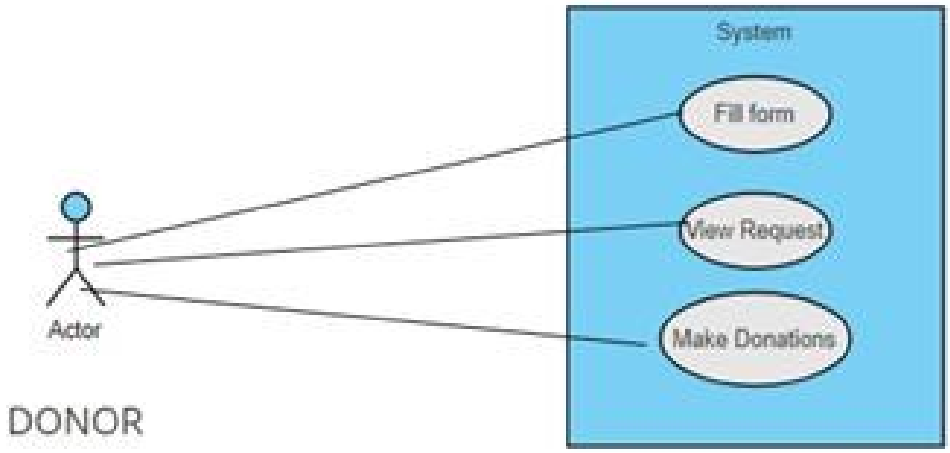
The actors are depicted as stick figures in the use case diagram.

Some events would have to proceed with the login like admin. Some need not require to login .

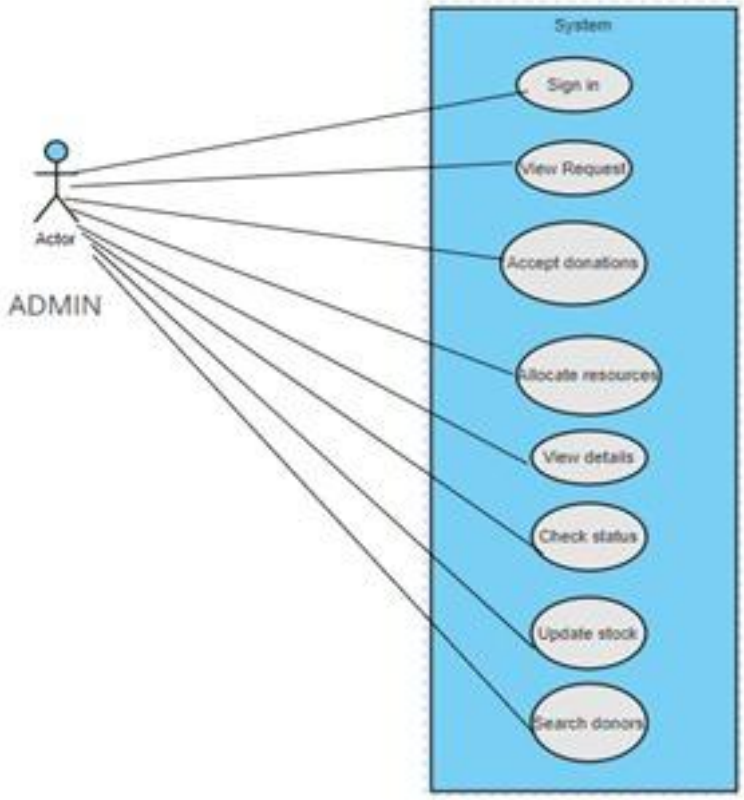
DONEE VIEW:.



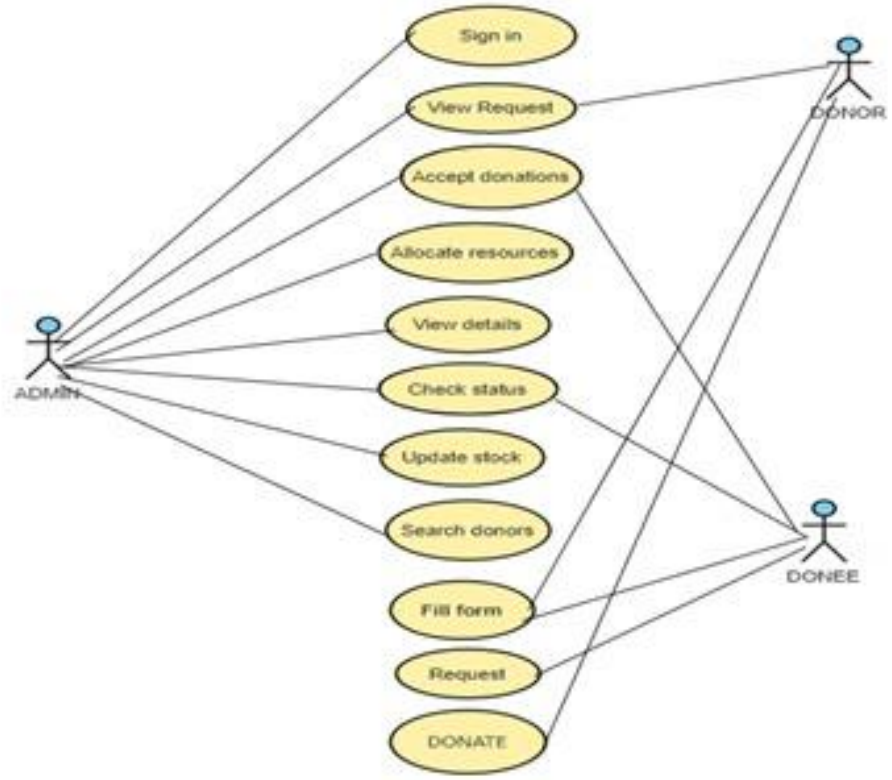
DONORVIEW



ADMIN VIEW



ADMIN VIEW CONTINUED:



4. Other Non-functional Requirements

4.1. Performance Requirements

- Any transaction will not take more than 10 seconds.
- Multiple users are supported.

4.2. Safety and Security Requirements

- The user has to login using the secure mongodb authentication mechanisms.
- All the stats related to the donations will be displayed on the main page.

4.3. Software Quality Attributes

The software will be built on a well known javascript frame work react.js, which follows the principle of each class should have a single purpose of existence. Since writing code in React is well structured and enables easy integration of the small modules.

React is fast , scalable ,simple and dynamic all the changes will be dynamically updated

5. Other Requirements

5.1 Requirements Elicitation:

Requirements in terms of user perspective:

.Requirement of the website has two views: Donor and donee

Donor's requirement is a simple form to fill in details and donate and receiver's wants a form to submit request.

5.2 Technical Feasibility:

As per the Analysis done by all our team members about the ease of building the application and the resources required and the complexity involved we can to a conclusion the project is Technically feasible.

Technical feasibility:
For the implementation of this web-based application the technical resources needed were estimated.
The current solution to the software was decided based on

- The complexity of the technical resources needed.
- The manpower needed to implement the project.
- Team member's prior experience with the technology.
- Ease of learning the implementation frame works like React.js and implementation of the data base.

Task Division:-

Sahana Evangeline **(PES2UG20CS543)**	Admin page Both font end and database • Front-end will be implemented using React.js Database using Mongo DB
Akshaya K **(PESUG20CS579)**	Request form Both font end and database • Front-end will be implemented using React.js Database using Mongo DB
Snehith H **(PES2UG20CS556)**	Main page /Dashboard Both font end and database • Front-end will be implemented using React.js • Database using Mongo DB
Veekshith Raj S Doshi **(PES2UG20CS570)**	Donation form Both font end and database • Front-end will be implemented using React.js Database using Mongo DB

Appendix A – Data Dictionary

1	Admin	A person or a group of people who would facilitate the communication between the donars and the donee.
2	Donar	A person who donates something like money ,food and other essentials
3	Donee	A person who receives the aid could be money food and other essentials
5	SRS	SRS stands for Software Requirement Specification. It is his used to refer to a document that completely describes all of the functions of a proposed system and the constraints under which it must operate.
6	Team Head	Team head is an individual who is responsible for all the actions undergoing under his/her team.
7	UI	UI stands for User Interface. It is defined as the space where interaction between humans and machines occurs.
8	View	View means to display and look at data on screen.
9	Mongo DB	Data base that stores all the data about the users and the admin as well as the data about the transaction that take place
10	React.js	A javascript frame work used for developing single page dynamic applications