PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Software Requirement Specifications

for

CHARITY AND ONLINE DONATION WEBSITE

Version 1.0 approved

TEAM NO : 09

ROHITH VEDANTAM - PES2UG21CS437

SHASHANK K N - PES2UG21CS490

SUPRITH M P - PES2UG22CS823

SAHIL KAMATE - PES2UG21CS453

PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

<organization>

09/09/2023

Table of Contents

PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Introduction

Purpose

The product whose software requirements are specified in this document is Charity and donation. The purpose of this document is to present a detailed description of the product, Charity and donation. 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.

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

Product Scope

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

- Donation of 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

References

Reference1 : unicef

PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Overall Description

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 middle man 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

Product Functions

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 donar etc.

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

User Classes and Characteristics

Users

- Admin
- Donor
- Donee

The various users that we expect the software to be used by are:
Admin- A person or a group of people who would facilitate the communication between the donars and the donee.

Donar- A person who donates something like money and other essentials.

Donee- A person who receives the aid could be money and other essentials

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

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.

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 howour 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

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.

External Interface Requirements

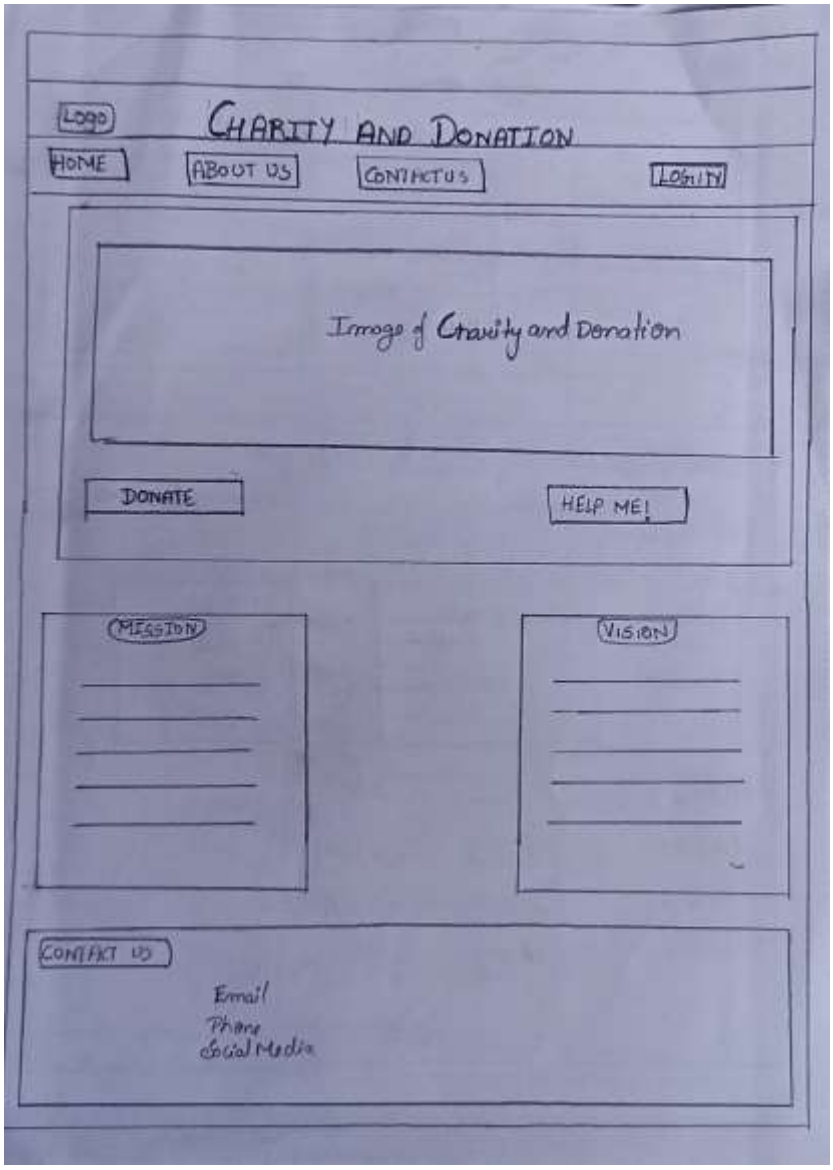
User Interfaces

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 organize 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 organizes the event by assigning work to team members and volunteers.

Sample

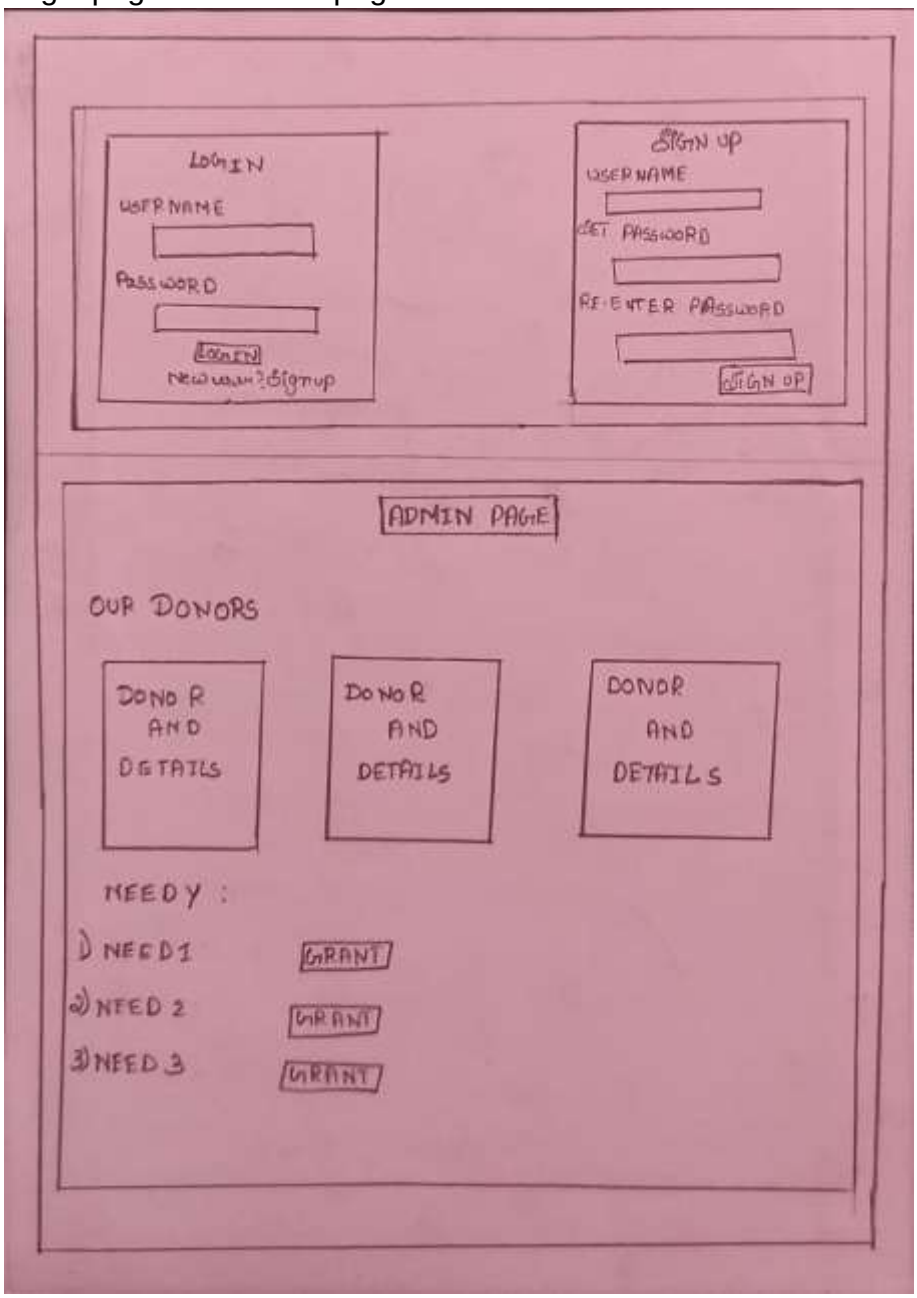
Dashboard:



PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

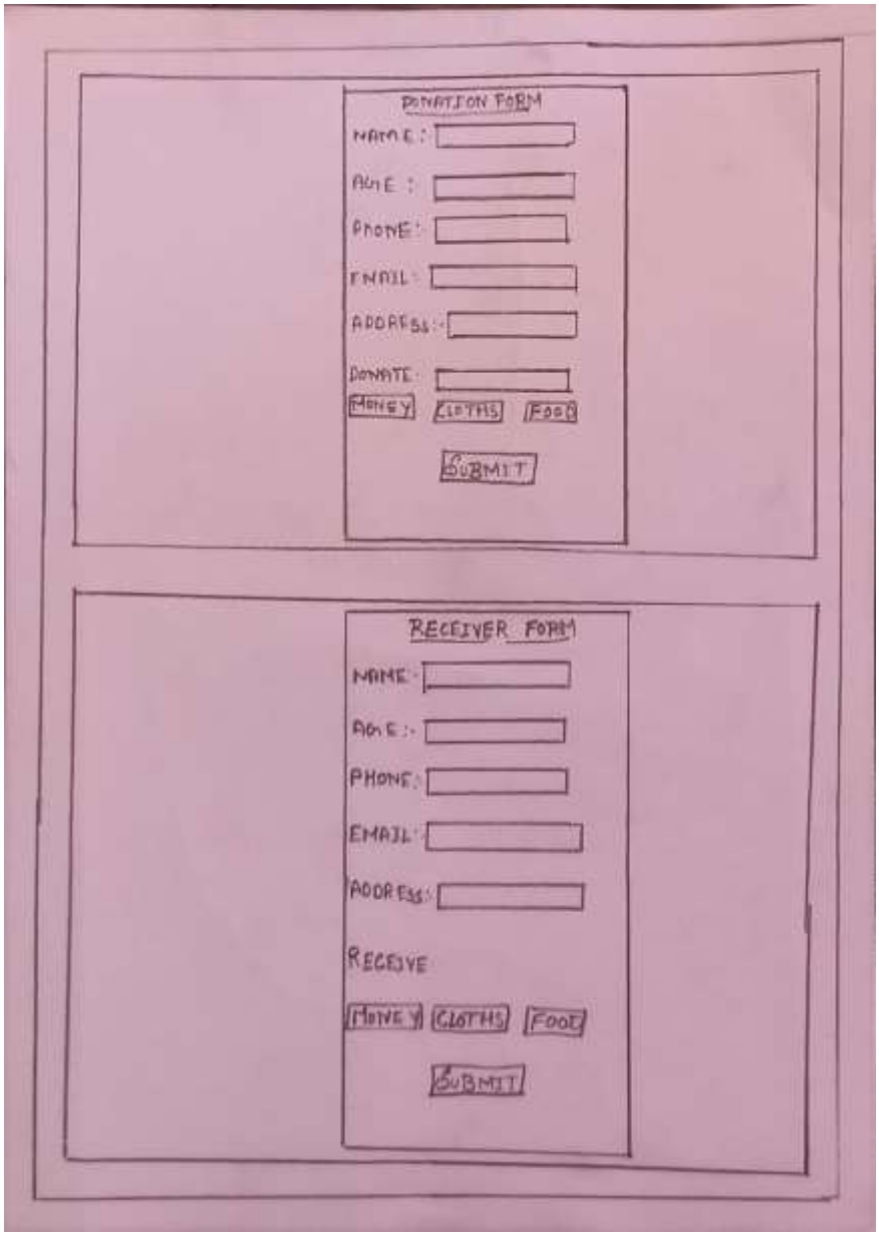
Login page and Admin page:



PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

DONATION AND RECEIVER FOR VIEW



Software Interfaces

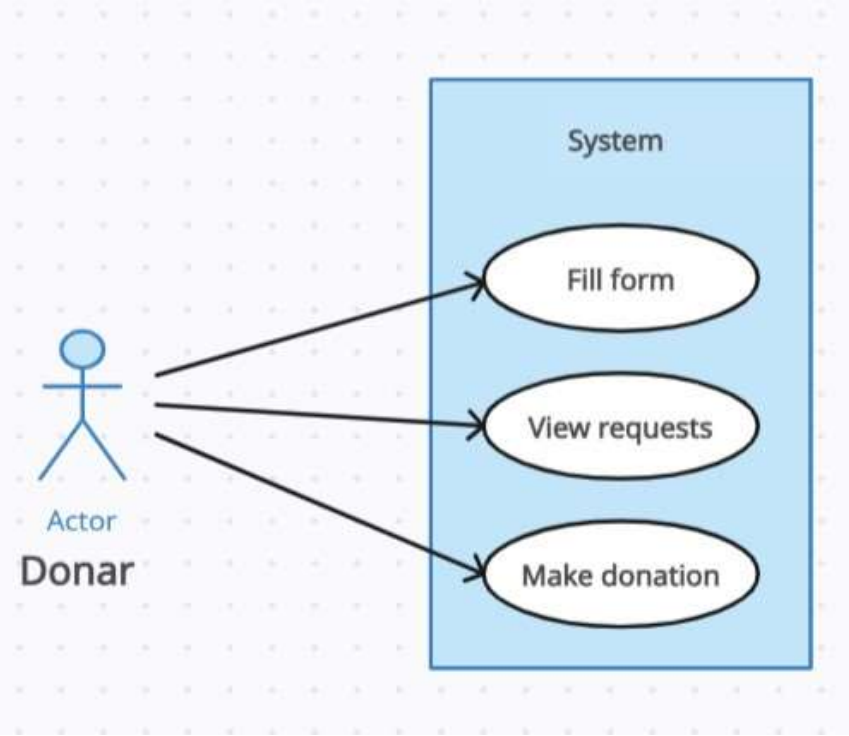
The software is operating system independent. It would run on Linux, Windows and Mac

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.

Analysis Models

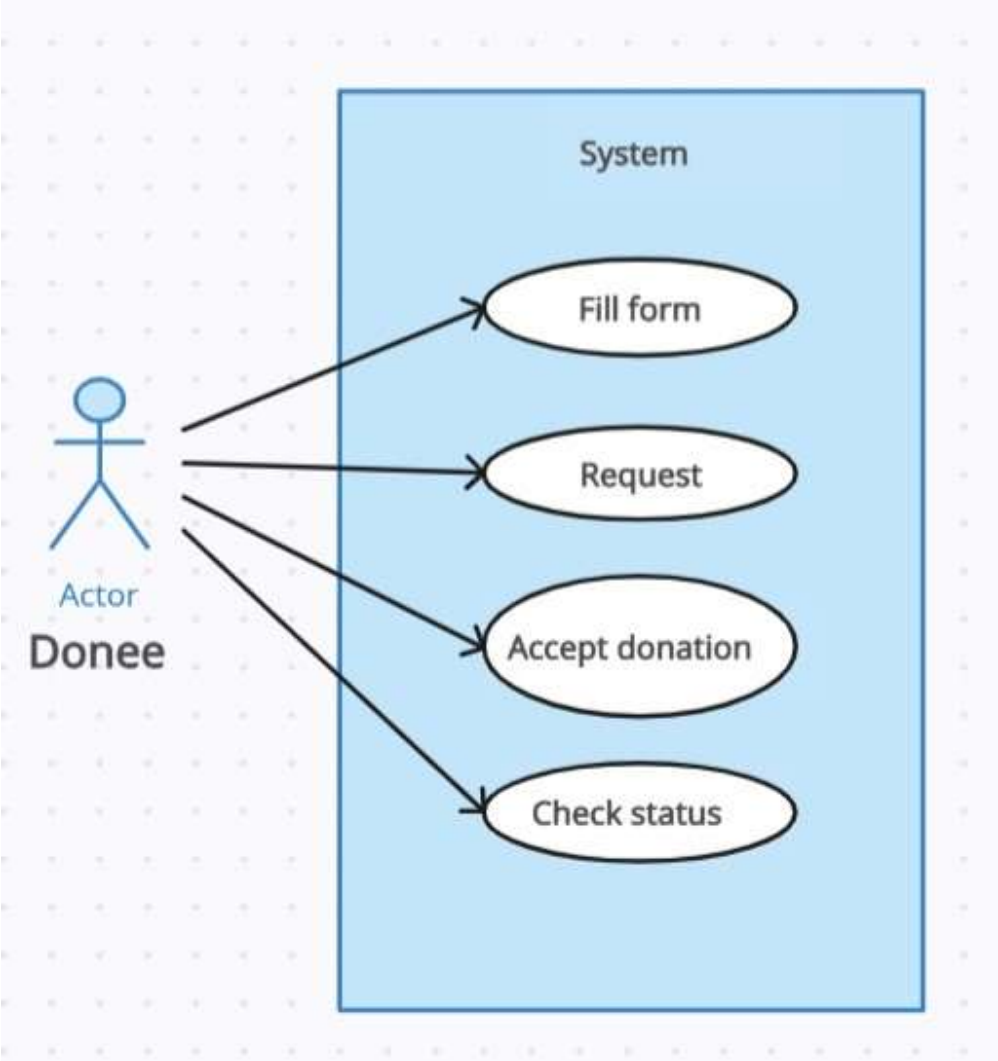
Donar view:



Donee view:

PES UNIVERSITY, BANGALORE

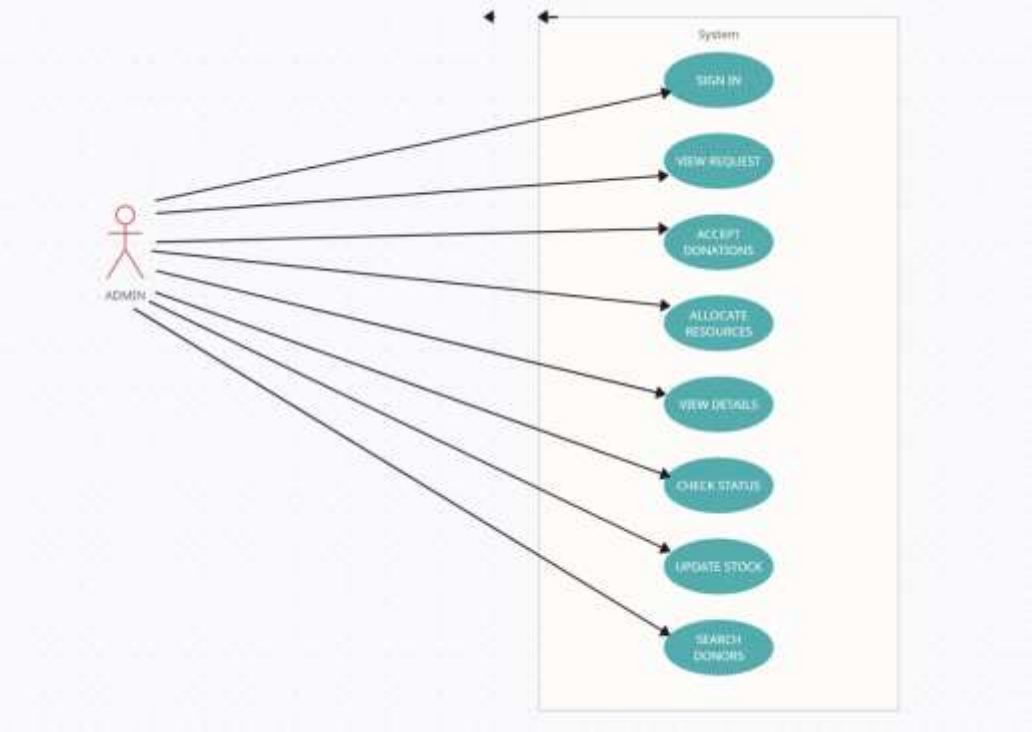
Department of Computer Science and Engineering



PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

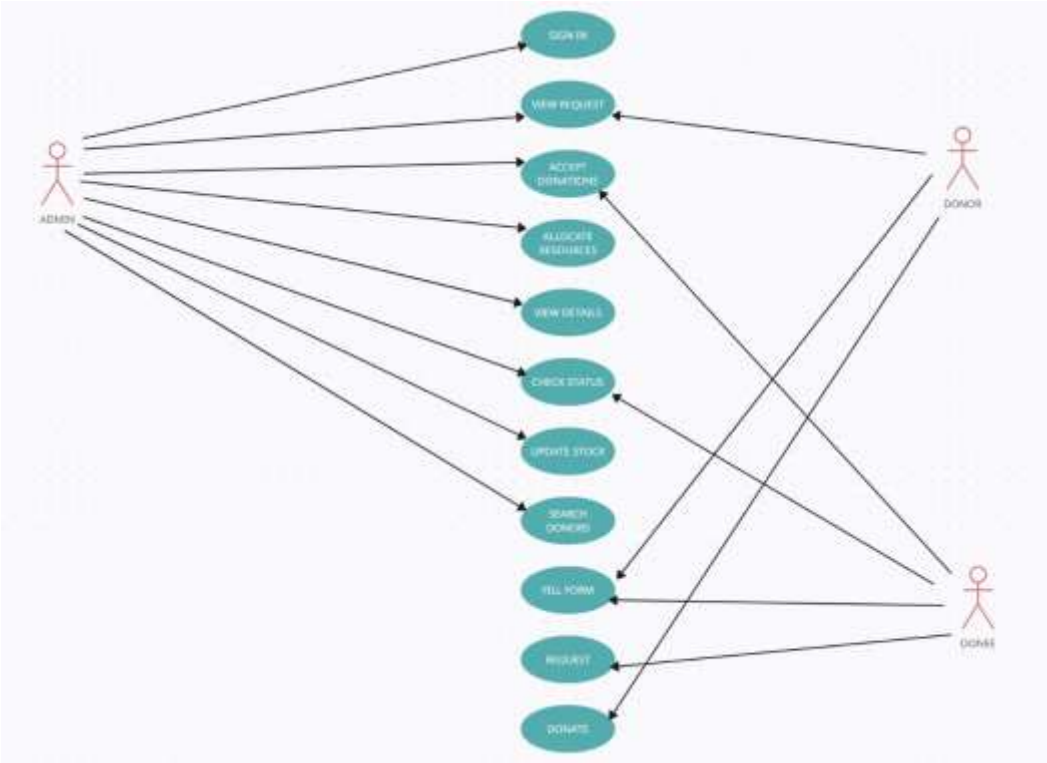
Admin view:



PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Admin view continued..



System Features:

System Feature 1

5.1.1 Description and Priority

Feature Name: User Registration

Description: This feature allows users to create accounts on the Donation and Charity Website, providing necessary information and login credentials.

Priority: High

5.1.2 Stimulus/Response Sequences

Stimulus: User clicks on the "Sign Up" button.

Response: The registration page is displayed, prompting the user to enter their details.

5.1.3 Functional Requirements

REQ-1: The system shall provide a user registration form with fields for the user's name, email address, password, and other required information

REQ-2: The system shall validate user-submitted data, ensuring that all required fields are filled out and that the email address is in a valid format.

System Feature 2

5.2.1 Description and Priority

Feature Name: Donation Form

Description: This feature allows users to make donations to a charity or campaign through an online form.

Priority: High

5.2.2 Stimulus/Response Sequences

Stimulus: when user navigates on a specific campaign page or selects the "Donate" option.

Response: The donation form is displayed, prompting the user to enter donation details.

5.2.3 Functional Requirements

REQ-1: The system shall provide a donation form that includes fields for the donation amount, donor's name, email address, and payment information (credit card or other payment methods).

REQ-2: Donation in the terms money, clothes and medicines should be specified in the donor form.

System Feature 3

5.3.1 Description and Priority

Feature Name: Admin Functionality

Description: This feature provides administrators with tools to manage and oversee various aspects of the Donation and Charity Website.

Priority: High

5.3.2 Stimulus/Response Sequences:

Stimulus: When admin clicks on “Donar/Donee profile”

Response: Donor/Donee details are displayed and accept donation from donar and transfer the donation to verified donee directly.

5.3.3 Functional Requirements:

REQ-1: The system shall provide a secure login mechanism for administrators, requiring a unique username and password.

REQ-2: The admin dashboard shall provide access to features such as user management, content management, campaign management, and reporting.

Other Nonfunctional Requirements

Performance Requirements

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

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.

Software Quality Attributes

The software will be built on a well known javascript framework react.js, which
Follows the principle that 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.

Other Requirements

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'swantsa form to submit request.

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 isTechnically 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 frameworks like React.js and implementation of the database.

Appendix A: Glossary

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 essen
4	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 ope
5	Team Head	Team head is an individual who is responsible for all the actions undergoing under his/her team
6	UI	UI stands for User Interface. It is defined as the space where interaction between humans and machines occurs
7	View	View means to display and look at data on screen.
8	MongoDB	Database that stores all the data about the users and the admin as well as the data about the transaction that take place
9	PHP	A server and client-side scripting language used for web development.
10	Javascript	A javascript framework used for developing single page dynamic application.

PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Appendix B: Field Layouts

An Excel sheet containing field layouts and properties/attributes and report requirements.

Sample sheet with information required to register the customer

Field	Length	Data Type	Description	Is Mandatory
Account Number	16	Numeric		Y
ISFC code	11	Alphanumeric		Y
Card Amount	20	Numeric		Y
Mandate Start Date	8	Date	Date of Mandate Registration	N
Mandate End Date	8	Date	Date of Mandate Expiry	N
Status	25	Alphanumeric	Status of Registration	Y
Customer Name	60	String		Y
Reject Reason Code	4	String	Reject Reason code in case mandate is rejected	N

Sample Report Requirements: Include the fields to be included in the report

Registration Report	Transaction Report
Bank Account Number	Transaction Reference Number
ISFC Code	Bank Account Number

PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Bank Name	IFSC Code
Account Status	Bank Name
Account Type	Customer Name
Customer Name	Card Number
Card Number	Debit Transaction Amount
SI Start Date	Transaction Date
Status	Status
Remarks	Debit Attempt Number
	Remarks