



IT313: Software Engineering Project

Software Requirements Specification For Charity Wallet Website

Instructor: Prof. Saurabh Tiwari

Mentor: Meet Panchal

Group: G8

Group Members

STUDENT ID	NAME
202101139	Ayush Hirdani
202101146	Ruturajsinh Chauhan
202101137	Kush Patel
202101151	Hirmi Patel
202101122	Sankalp Bohidar
202101141	Shrushti Timbadiya
202101125	Priyank Hudka
202101150	Darshan Sanghvi
202101157	Chinmay Vaishnav

Purpose

This website serves as a powerful tool for making it easy for individuals to contribute to meaningful causes and for NGOs to amplify their voices and reach their full fundraising potential. It's a win-win situation for both sides, leading to a more vibrant and impactful charitable landscape.

- Increased donations: By bridging the gap between donors and NGOs, the platform facilitates more donations, ultimately leading to greater positive social and environmental impact.
- Empowered donors: Equips donors with information and tools to make informed decisions about their charitable giving, leading to greater satisfaction and engagement.
- Strengthened NGO ecosystem: Provides NGOs with access to resources and support, contributing to their sustainability and long-term success.

Intended Audience and Reading Suggestions

The intended audience of software developers who will be responsible for implementing the online mobile recharge portal. However, it may also be useful for project managers, testers, and end-users who need to understand the requirements of the system.

- **Software developers** should use this SRS document to understand the functional and non-functional requirements of the website and to guide their design and implementation decisions.
- **Project managers** should use this SRS document to understand the scope of the project, the overall requirements of the portal, and the potential risks associated with the development process. They should also use this document to track the progress of the project and to ensure that the website meets the specified requirements.
- **Testers** should use this SRS document to understand the requirements of the website and to develop test cases that will ensure that the website meets those requirements. They should also use this document to document the results of their testing activities.

- **End-users** should use this SRS document to understand the usage and features of this website. They should also use this document to report any problems or issues that they encounter with the website.

Product Scope

Charity Connect bridges the gap between aspiring donors and worthy NGOs, fostering a collaborative ecosystem of positive change. Our comprehensive platform showcases impactful initiatives, empowering individuals to discover causes that resonate with their values. Through transparent profiles, engaging campaigns, and seamless donation options, we facilitate meaningful connections that translate into tangible results.

Tools and Technologies Used

Frontend: React, CSS, Bootstrap, mui

Backend: Python MongoDB

Version Control: Git, GitHub

UI/UX Design: Figma

Functional and Non-Functional Requirements

Functional Requirements

General:

- The system should be able to manage and store all the information.
- The system should have a Contact Us section.
- The system should have an about us page to know more about the Charity Wallet
- The website should have a review and approval process to ensure that listed NGOs meet certain criteria and maintain accurate information so that they can be properly verified and trusted..

For Donor:

- Donors should be able to view the NGOs Campaigns and Fundraisers posted and verified by the Admin.
- Donors should be able to donate to desired NGOs campaigns and Fundraisers easily and securely.
- Donation confirmation: Donors should receive a confirmation email or receipt after making a donation.
- View donation history: Donors should have access to their donation history, including donation amount, date, and designation.

For Organizers :

- Organizer should be able to log in and log out of the system.
- Organizers should be able to create/update/delete campaigns.
- Organizers should be able to see all the campaigns that are live or were created on their dashboard.

For NGOs:

- NGOs should be able to log in and log out of the system.
- NGOs should be able to set up their profile easily.
- NGOs should be able to upload their logo and other relevant images to represent their organization.
- NGOs should be able to complete their profile by providing details such as their mission, programs, impact, and contact information.

For Fundraisers:

- Users can set up new fund raisers and delete the fund raisers once the amount raised.

Non Functional Requirements

Availability

- Uptime: The website should be available 99.95% of the time, with minimal downtime for maintenance or updates.
- Response Time: Page load times should be under 3 seconds for all pages, regardless of user location or device.

Scalability:

- The website should be able to handle a high volume of traffic without performance degradation, especially during peak donation periods or campaign launches.

Security:

- The website should have robust security measures in place to protect user data and financial information. This includes secure login procedures, and regular vulnerability scans.

Mobile Responsiveness:

- The website should be responsive and optimized for all devices, including desktops, laptops, tablets, and smartphones.

Usability:

- User-Friendly Interface: The website should have a user-friendly interface that is intuitive and easy to navigate.
- Clear Information Architecture: The website should have a clear information architecture that makes it easy for users to find the information they need.
- Content Readability: Content should be written in clear, concise language and formatted for easy reading.

Maintainability

- Modular Design: The website should be designed in a modular fashion, making it easier to maintain and update.

Use Cases

- **Donor -**
 - **Explore NGOs, Campaign, Fundraiser**
 - **Previous Donation Records**
- **Organizer -**
 - **Logging in/out**
 - **Create/Delete/Update Campaign**
- **NGO -**
 - **Logging in/out**
 - **Profile Update**
 - **Create/Delete/Update Campaign**
- **Fundraiser -**
 - **Setup/Delete Emergency Fundraiser**

Use Cases Description

- **Explore NGOs, Campaign, Fundraiser**
 - **Pre-Conditions:**
 - The donor has access to a computer or mobile device with an internet connection.
 - The donor is familiar with basic web browsing and navigation.
 - **Main flow:**
 - The donor visits the charity website.
 - The donor browses the website's homepage to get a general overview of the organization's mission and work.
 - The donor clicks on the "NGOs" or "Fundraisers" tab to explore the different organizations and campaigns supported by the charity.
 - The donor uses the search bar or filters to narrow down their search by cause, location, or other criteria.
 - The donor clicks on an NGO or fundraiser to learn more about its mission, impact, and funding needs.
 - The donor reads the NGO or fundraiser's profile, watches videos, and reviews testimonials.
 - The donor considers making a donation to the NGO or fundraiser.
 - The donor clicks on the "Donate" button to start the donation process.

➤ Alternate flow:

- The donor clicks on the "About Us" tab to learn more about the charity itself.
- The donor clicks on the "Contact Us" tab to get in touch with the charity for more information.

➤ Postconditions:

- The donor has identified one or more NGOs and fundraisers that align with their interests and goals.
- The donor has a better understanding of the work of each NGO and fundraiser.

- Previous Donation Records

➤ Pre-Conditions:

- The donor has access to a computer or mobile device with an internet connection.
- The donor has an email address associated with their previous donations.

➤ Main flow:

- The donor visits the charity website.
- The donor clicks on the "Donation History" link or button.
- The donor is presented with a form to enter their email address.
- The donor enters their email address and clicks on the "Submit" button.
- The charity system verifies the donor's email address and sends a OTP to the donor's email address.
- The donor enters the OTP on the website.
- The donor is redirected back to their donation history.
- The donor can view their donation history, including the date of each donation, the amount donated, and the campaign or NGO supported.

➤ Alternate flow:

- The donor has given the wrong email address in which case the website asks to re enter the correct email address.

➤ Postconditions:

- The donor has successfully accessed their donation history and can view the details of their past donations.
- The donor can verify the accuracy of their donation history and ensure that all of their donations are accounted for.

- Logging in/out

- Pre-Conditions:

- No Pre-Conditions are there.

- Main flow:

- The user enters their username/email and password on the login page.
 - The login page sends the user's credentials to the authentication module.
 - The authentication module verifies the user's credentials against the database.
 - The authentication module sends a success message to the login page if the credentials are correct.
 - The login page redirects the user to the home page.

- Alternate flow:

- The user enters their username and password on the login page.
 - The login page sends the user's credentials to the authentication module.
 - The authentication module verifies the user's credentials against the database.
 - The authentication module sends an error message to the login page if the credentials are incorrect.
 - The login page displays the error message to the user.

- Postconditions:

- The user is successfully logged in and redirected to the home page.
 - The user is unable to log in and is displayed an error message.

- Profile Update

- Precondition:

- The users must be logged into their account to access the update profile feature.

- Main Flow:

- The system will display the user's current profile information.
 - The user can now change the information that they want to update in the respective field.
 - After making necessary changes, Users have to press an Update button which allows the system to register the updates made by users.
 - The system will save the updates to the database of the server and prompt a message on the page indicating updates are successfully executed.

➤ Alternate Flow:

- If the user no longer wants to update the profile, they can cancel the updating process by pressing the Cancel button which appears in the confirmation box after the user presses the Update button.
- If the user is facing any technical issues related to updating the profile information, then they might contact the website's support team.

➤ Postcondition:

- Updates are successfully made in the database of the system with the user's updated profile information.

● Create/Delete Campaign

➤ Precondition:

- The NGO must have a valid login credential.
- The NGO must be registered and approved by the website administrator.

➤ Main Flow:

- The NGO logs into the charity website.

Create Campaign:-

- The NGO navigates to the campaign creation page.
- The NGO enters the following information about the campaign:
 - ◆ Campaign title
 - ◆ Campaign vision
 - ◆ Campaign description
 - ◆ Campaign image
 - ◆ Campaign goal amount
- The NGO submits the campaign creation form.
- The charity website administrator reviews the campaign and approves it if it meets the website's guidelines.
- The campaign is now live and visible to all visitors to the website.

Delete Campaign:-

- The NGO navigates to the campaign page.
- The NGO will see a delete campaign button.
- The charity website administrator reviews the command.
- The campaign is now removed and not visible on the website.

➤ Alternate Flow:

Create Campaign:-

- If the NGO encounters technical issues while creating the campaign, they can seek assistance from the website's support team.

- If the campaign creation form is incomplete or contains invalid information, the NGO will be prompted to correct the errors and resubmit the form.
- If the charity website administrator rejects the campaign, the NGO will be notified of the reason for rejection and given the opportunity to make changes to the campaign and resubmit it.

➤ **Postcondition:**

Create Campaign:-

- A new campaign has been created on the charity website.
- The campaign is visible to all visitors to the website.
- The NGO can track the progress of the campaign and make changes as needed.
- Donors can view and contribute to the campaign.

Delete Campaign:-

- The campaign has been deleted from the charity website.
- The campaign is not visible on the website.

● **Update Campaign**

➤ **Precondition:**

- The NGO must have a valid login credential.
- The NGO must be registered by the website administrator.
- The NGO must have an approved campaign by the website administrator.

➤ **Main Flow:**

- The NGO logs into the charity website.
- The NGO navigates to the campaign page.
- The NGO updates required credentials.
- The charity website administrator reviews the campaign once again and approves it if it meets the website's guidelines.
- The campaign is now back alive and visible to all visitors to the website.

➤ **Alternate Flow:**

- If the NGO encounters technical issues while updating the campaign, they can seek assistance from the website's support team.
- If the campaign update form is incomplete or contains invalid information, the NGO will be prompted to correct the errors and resubmit the form.

➤ **Postcondition:**

- The campaign has been updated on the charity website.
- The campaign is visible to all visitors to the website.
- Donors can view the updated campaign and contribute to it.

- Setup/Delete Emergency Fundraiser

- Preconditions:

- The charity wallet website is operational.

- Main Flow:

- An individual, referred to as the "Fund Organizer," opens their web browser and navigates to the charity wallet website.
 - Then select the "Create Emergency Fundraiser" option.
 - The Fund Organizer will be asked to provide email id which will get verified by the website administrator.
 - Then proceeds to the website which presents a form for creating a new emergency fundraiser, prompting the Fund Organizer to provide the following information:
 - Fundraiser title
 - Description of the emergency situation
 - Fundraising goal amount
 - Start date and time
 - End date and time
 - Fundraiser category (e.g., medical, disaster relief)
 - Contact information for inquiries
 - Any additional details or images related to the fundraiser
 - The Fund Organizer fills in the required information and any optional details they want to include.
 - After completing the form, the Fund Organizer submits the fundraiser creation request.
 - The charity wallet system validates the information provided and ensures that all required fields are filled.
 - If the information is valid, the system creates a new emergency fundraiser event and adds it to the charity wallet website.
 - The website displays a confirmation message to the Fund Organizer, indicating that the fundraiser has been successfully created.

- Alternate Flow:

- Invalid information (Step 8): If the information provided by the Fund Organizer is invalid or incomplete, the system displays an error message and prompts the Fund Organizer to correct the information.

- Postconditions:

- A new emergency fundraiser event is created on the charity wallet website.
 - The fundraiser event is accessible to Fund Organizers for donation

● User stories

User Stories	Acceptance Criteria (Back of the Card)
As a Donor, I want a dedicated browsing and filter option so that I can choose efficiently where to donate.	<ul style="list-style-type: none"> • A feed-type page can be designed so that a donor can surf through various NGOs profiles.
As a Donor, I need various payment options so that I can easily transfer funds.	<ul style="list-style-type: none"> • Multiple payment methods, including credit/debit cards, PayPal, bank transfers, and mobile payment services. • The donor should be able to select their preferred currency from a list of supported currencies. • The system should handle any payment errors gracefully and provide helpful error messages to guide the donor through the resolution process.
As a donor, I want to receive instant confirmation of my donation on the charity wallet website, along with a receipt for tax purposes, so that I have documentation of my contribution	<ul style="list-style-type: none"> • Along with the confirmation email, the system should automatically generate a donation receipt suitable for tax purposes. • Provide clear instructions to donors on how to locate and access their confirmation messages and receipts on the website.
As a Donor, I need a security validation so that I can reliably donate.	<ul style="list-style-type: none"> • Offer a way for donors to provide feedback or report suspicious activities, enhancing the community's ability to collectively improve security. • Use a reputable and secure payment gateway provider that complies with industry standards for secure payment processing. • Utilize fraud detection algorithms to identify and flag potentially suspicious donation activities, triggering additional verification steps if necessary, e.g. OTP.
Being a Donor, I need to see donation history so that I can track my donations.	<ul style="list-style-type: none"> • Donors should have a dedicated section in their account where they can view a list of their past donations, including date, amount, and campaign support. • Each donation entry should link to additional details, providing the donor with a comprehensive overview of their giving history.
As a donor, I want to easily find answers to frequently asked questions about the platform and the donation process, so that I can have a smooth and hassle-free experience.	<ul style="list-style-type: none"> • The platform's "Frequently Asked Questions" (FAQ) section is prominently displayed and easily accessible from the homepage.
As an NGO, we want to get more recognition so that we can be more	<ul style="list-style-type: none"> • A dedicated profile page for every NGO registered on the website.

dedicated to our mission with the donation we can get from it.	
As an NGO, we need an integrated platform to showcase our active campaigns so that we can raise more funds.	<ul style="list-style-type: none"> • The platform should provide a dedicated section to showcase the NGO's active campaigns, including campaign names, descriptions, goals, images, and progress indicators. • The platform should allow NGOs to upload images, videos, and other multimedia content to enrich the campaign's presentation and engage potential donors effectively. • The platform should display real-time updates on each campaign's progress, reflecting the current donation amount and the percentage achieved towards the goal.
As an NGO, we need a dedicated profile setup so that we can showcase our work.	<ul style="list-style-type: none"> • Users should be able to create and update a comprehensive profile with the organization's mission, key projects, and contact information.
As an NGO, we need a clear donation history, so that we can track and verify the amount being donated.	<ul style="list-style-type: none"> • Maintain a comprehensive donation history for the NGO, including details such as donor names, donation dates, amounts, and campaign names.
As an Emergency help seeker I need a ready-to-use template option so that I can quickly create a fundraiser.	<ul style="list-style-type: none"> • The platform should provide a library of pre-designed fundraiser templates tailored for different emergency situations, such as medical expenses, natural disasters, accidents, and more. • Templates should include sections to set fundraising goals and display progress bars, helping donors understand the campaign's objectives. • Include fields for users to input specific emergency details, such as medical diagnoses, accident descriptions, or disaster information.
As an Emergency help seeker, I need the profile setup process as quick as possible so that I can receive funds faster.	<ul style="list-style-type: none"> • The platform should provide a library of pre-designed fundraiser templates tailored for different emergency situations, such as medical expenses, natural disasters, accidents, and more. • Templates should include sections to set fundraising goals and display progress bars, helping donors understand the campaign's objectives. • Include fields for users to input specific emergency details, such as medical diagnoses, accident descriptions, or disaster information.