

**DEVELOPMENT OF A CROWDFUNDING PLATFORM FOR
COLLECTION OF DONATIONS FOR A DISTRESS**

BY

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project/internship titled “**Development of a Crowdfunding Platform for Collection of Donations for a Distress**”, submitted by Md. Abdur Rahim, ID No: 163-15-8297 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 05 December 2019.

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DECLARATION

I hereby declare that, this project has been done by me under the supervision of **Umama Dewan**, Lecturer, **Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

There are many types of natural disasters in our society, people are also injured in road accidents, and many are struggling with the disease and fighting death. So, at this moment we decided to help them with money but, in different ways. The main problem is that we're not sure whether our donated money is reaching to them. Also, scammers make lots of vague and sentimental claims but, give no specifics about how your donation will be used; subsequently, they misuse of charity money. Since this, donor can't believe and get confused when they want to donate the money. In this sense, we need a kind of donation platform in our society that will clear our transactions in front of everyone and build trust while donations. So, this project is all about to solve those issues and give a platform to peoples whose wants to help helpless peoples. With is platform, anyone can donate their valuable money from anywhere and anytime directly to them and all donations has its own track records which can help other donor to understand what's the progress & status of the campaign.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

When people are affected by natural disaster likes hurricanes, tornado, floods, tornadoes, earthquakes, tsunamis or other major adverse events, we want to help them. Here lots of affected people's faces many issues such as - how to reach people's whose wants to donate money or help with other things, get medical aid, how to get food supply etc. Also, Those peoples are faced many problems who wants to help helpless peoples but they are not sure whether his/her donated money is really reaching to them? Because there are lots of scammers runs lots of fake campaign who's promised to deliver our donated money to the affected peoples, but in reality donor are not sure how their donated money will be used, here scammers misused the charity money. For this donor get confused when they want to donate the money.

That's mean, here we need a completely transparent donation platform in our society that will clear all of transactions in front of everyone which can build trust to other donor while new donations. So, This project is all about to solve above issues and give a platform to peoples whose wants to help helpless peoples. With is platform, anyone can donate their valuable money from anywhere and anytime directly to them and all donations has its own track records which can help other donor to understand what's the progress & status of the campaign.

1.2 Motivation

In the past, many cases tell us how many frauds happen due to mismanagement & unmonitored donations. Peoples are donating money to individuals / group of people's personal accounts and they used that money by their will. Yes, some of peoples are really doing some goods initiative in our society and they really deliver the donation money / goods to the helpless peoples. But here the question is – Is it enough to believe those individuals only on their promises? No! So, only for this, I inspired to build this project where peoples (donor / donation receivers) can use a platform where everyone can raise money from other peoples and everyone can donate money transparently on online.

1.3 Objective

1. Helpless peoples can raise money from the society.
2. Helpless peoples can show proof to donor with various materials such as video & photos so donor can trust the money raiser's story.
3. All transactions will be transparent to everyone, that's mean everyone can check the real time transaction history and know how much money raised in total on the specific campaign.
4. Donor can donate money from their mobile phones or computer from anywhere & anytime. They don't need to go to actual places to donate the money.
5. Donor can communicate with Money Raiser directly through the platform.
6. Any licensed organization can run a campaign of their good initiative likes "ek takai ahar", "National Liver Foundation", "Center for Zakat" and donor can donate monthly for that initiative.

1.4 Expected Outcome

This project is about money rising / crowdfunding on online that will help our society to prevent fraud transactions. This initiative can change our society where people can donate money without any fear and confusion.

1. Convenience & Easiness:

Because it's a online donation platform so everyone can easily donate money from anywhere around all over the world with their local payment method by using Smartphone or personal computer.

2. Track every transactions:

In this project, peoples can track every donations live on online so everyone can keep eye on the campaign and know about every details of the collected money. So, people will understand how much money until collected from donor and nobody cannot claim false amount of collected donation.

3. Attract New Customers:

Because it's fully transparent in front of everyone so customer can trust the campaigns and donate continuously without getting any headaches. That's mean it will build trust between donor and donor receiver. For this, new donors will encourage to donate money on upcoming campaigns and everyone can help each other.

4. Avoid Fraud / Scammers:

Campaign owner have ability to share their full information's to donor via photos or videos and it will help a donor to find a right campaign where he/she wants to donate. For this Frauds & scammers will not able to give full proof of the campaign to donor so donor can avoid / prevent scammers easily.

5. Communication between donor & fundraisers:

If donor wants to communicate with fundraisers, he/she also can communicate each other easily with this platform. All information of fundraisers will also visible to donor before donation.

6. Security:

If any fundraisers found fraud, the campaign will stop immediately and all donated amount will refund automatically to their donor's account credit. Because, during the campaign active online, fundraisers cannot withdraw any amount to their financial account from this donation platform. All campaigns will be monitored by the "Sohayota" team itself and management team has rights to decide to take an action against the fundraisers.

1.5 Report Layout

This Report is divided into six chapters. The chapters are summarized below:

- Chapter one covers an introduction of my project “Online donation” site along with the motivation behind this work and objectives, expected output.
- Chapter two covers the background details and some previous related works with comparative studies and challenges of our project.
- Chapter three is mainly highlighted on the described business process model and use case design, logical data model with design requirement of the project.
- Chapter four is design specification of front-end, back-end design, interaction design and UX with implementation requirement.
- Chapter five is based on the implementation of database, front-end design with the details of the testing of project.
- Chapter six which is the last one consists of conclusion and scope for further developments of project.

CHAPTER 2

BACKGROUND

2.1 Introduction

“Sohayota” is online donation platform. This is a virtual home / place for all donor and beneficiary. In this platform any user can register themselves either as donor and fundraisers. While registering he or she receives email with a valid login id and password to run a online crowdfunding campaign on this virtual platform. Donors will see all information’s of fundraisers information about the campaign.

To proof campaign is real fundraisers has ability to share the story to donor by videos & pictures as well. Donor can analyzed the campaign according to the information which provided by the fundraisers. After that a donor will donate the money with their local payment method from anywhere all around the world by using smart phone or personal computer.

While a campaign activated on online, all donors can check the all transaction history with donated amount so total amount of collected donation will visible to everyone. If a donor wants to be a monthly donor he/she has option to decide to donate on the campaign by day/month/year and also he/she can choose how much money wants to donate every period of time. Not only this, donor also can communicate directly with the fundraisers through this donation platform if he/she wants to.

If any fundraisers found doing fraud, the campaign will stop immediately and all donated amount will refund automatically to their donor’s account credit. Because, during the campaign active online, fundraisers cannot withdraw any amount to their financial account from this donation platform. All campaigns will be monitored by the “Sohayota” team itself and management team has rights to decide to take an action against the fundraisers.

Last but not least, building trust is very important while donating online and using this platform donors can avoid the scammers / frauds and can make donation to those peoples whose really needs the donation.

2.2 Related Works

Sohayota is a online crowdfunding / donation platform. There is some websites works similar like “Sohayota”. We have study on these website. Some of the important websites are discussed below:

GoFundMe:

GoFundMe is a crowdfunding website where peoples raise donations for various type of events like helping poor peoples, graduations, floods, accidents, illnesses etc.

It’s also allows fundraisers to make his/her own website where they can raise money easily from other peoples[5]. During the event active, fundraiser can share their purpose of the fundraising and the amount they hope to raise. Also, fundraisers can upload photos or video to share their story to donor so they can easily understand about the campaign[6]. Once the campaign is activated, Its allows donors and other members to share that campaign with other peoples on social network such as facebook, twitter, email etc. After that donor can donate money on that active campaign by using a debit card or credit card[7]. They can also track the progress of the campaign. Also, donors can leave a comments on that campaign to share feelings, stories or other stuffs. Not only this, If a fundraiser failed to rise donations, then they don’t have to pay any charge for the campaign[8]. For Payments, 3rd party payment processors charge 2.9% and \$.30 from each transaction[9].

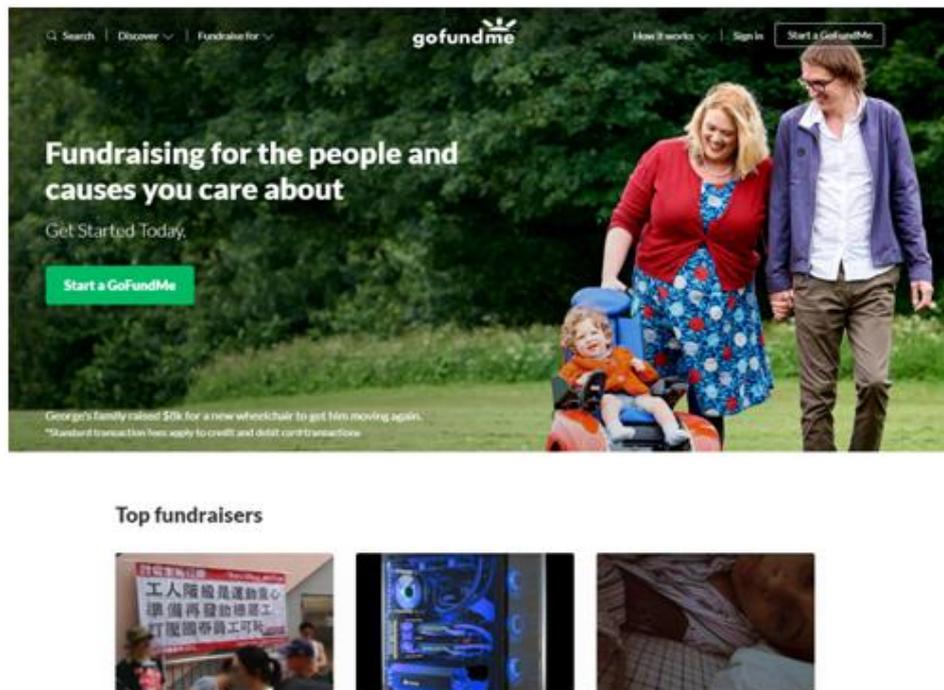


Figure 2.1: UI design for Go Fund Me

Go Fund Me is unique platform for crowdfunding, not an incentive-based fundraising platform. It allows various projects for fund such as musicians, technology based startups, scientists, inventors, etc. The business model of Go Fund Me is allow donations for personal issues and life events such as hospital bills.

It's also targets social media platforms to create awareness in society & encourage peoples to be a fundraiser / donor and create a campaign for the society. According to a 2018 report, a donor sharing a campaign on social media results in \$15 of donations on average.

2. Fundly

Fundly is also a crowd funding platform for fundraising on online. Like Go Fund me. It's also allows non-profits, charities, clubs, schools, and other issues to raise money online from friends and family, or relatives, colleagues and other donors / supporters via various social media networks and as well as emails. It also has an mobile for social networks like Facebook or twitter. For payment processing, It uses WePay to process donations through credit card or other payment methods. While make a donations, donors are charged for payment processing.

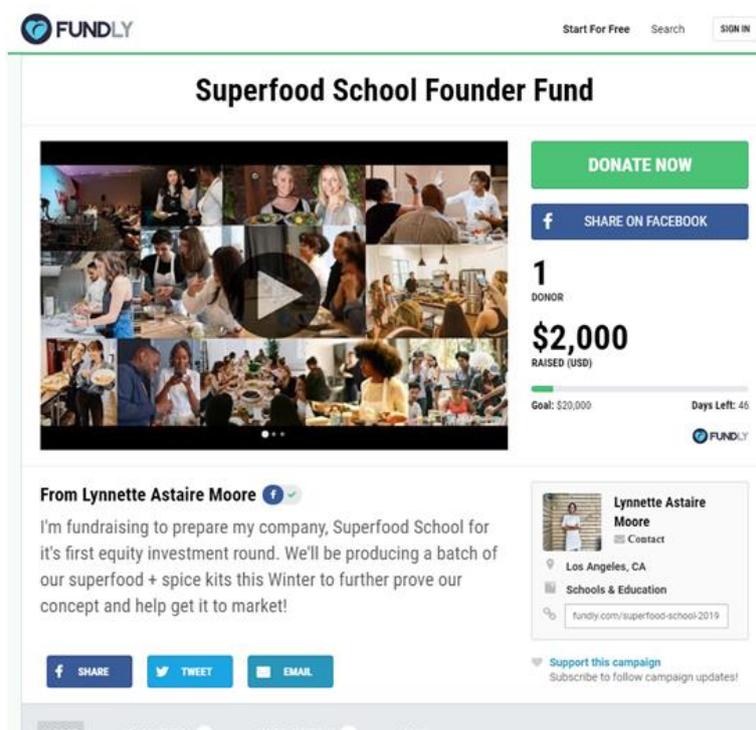


Figure 2.2: UI design for Fundly

2.4 Scope of the problem

Like every website, our website has its own some features. Our users must be need to know the features. So the features are highlighted below:

- All campaigns are listed & categorized by the city.
- All campaigns can be filtered by the price, location or field.
- Every user can be a fundraiser or a donor.
- Donor has ability to communicate directly to fundraisers through the website.
- All transactions can be done by the local payment method.
- All transactions are transparent so it's visible to everyone.
- Fundraisers have ability to show the proof to donor via photos & videos.
- Fundraisers can withdraw their collected money directly to their bank account.
- Fundraisers have ability to provide an live updates to their donor.
- Donor has ability to request for refund the donation money.
- Donor can be a monthly donor to a specific fundraiser or organization.

2.5 Challenges

We faced challenges at different stages of this project. We have been able to overcome those challenges successfully. We faced some of the challenges below :

- Find the right individuals or fundraisers to avoid fraud & scammers.
- Encourage people to donating online.
- Build a strong relationship between donor & fundraisers.
- Make all transaction visible to everyone.
- Collecting donation from outside of the country.
- Engage peoples to think about the country and the society.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business process modeling (BPM) is an assimilation that is a process of business management & system engineering of an organization or enterprise. It describes the analytical representation of any organization and also enterprise. BPM helps to increase business quality and it also reduce business cost. Business process modeling can be changed or it can improved to get new business opportunities [4].

It must be need to register user account then see the necessary information. Store database in mysql .After login the account and see the profile.

When any users open the website, they view the campaign, fundraisers information. Home page you see the campaign list, features or campaign category, they have to click the campaign and see the campaign details. Then they can see the details of the campaign which active online for collecting the donations. Then user click on the details information button they will see the full information of the fundraisers / organizations. If user wants to check current fundraisers more campaign he/she can click on the profile picture of fundraisers and then they can see all other campaigns of that fundraiser. Also, for additional verification Donor and Fundraiser can easily communication from the website.

If any fundraisers found fraud, only “Sohayota” admin can take any action to the fundraiser and “Donor” will send a request directly to admin for refund. Also, “Sohayota” admin have rights to stop the campaign and refund the all collected donations to the donor.

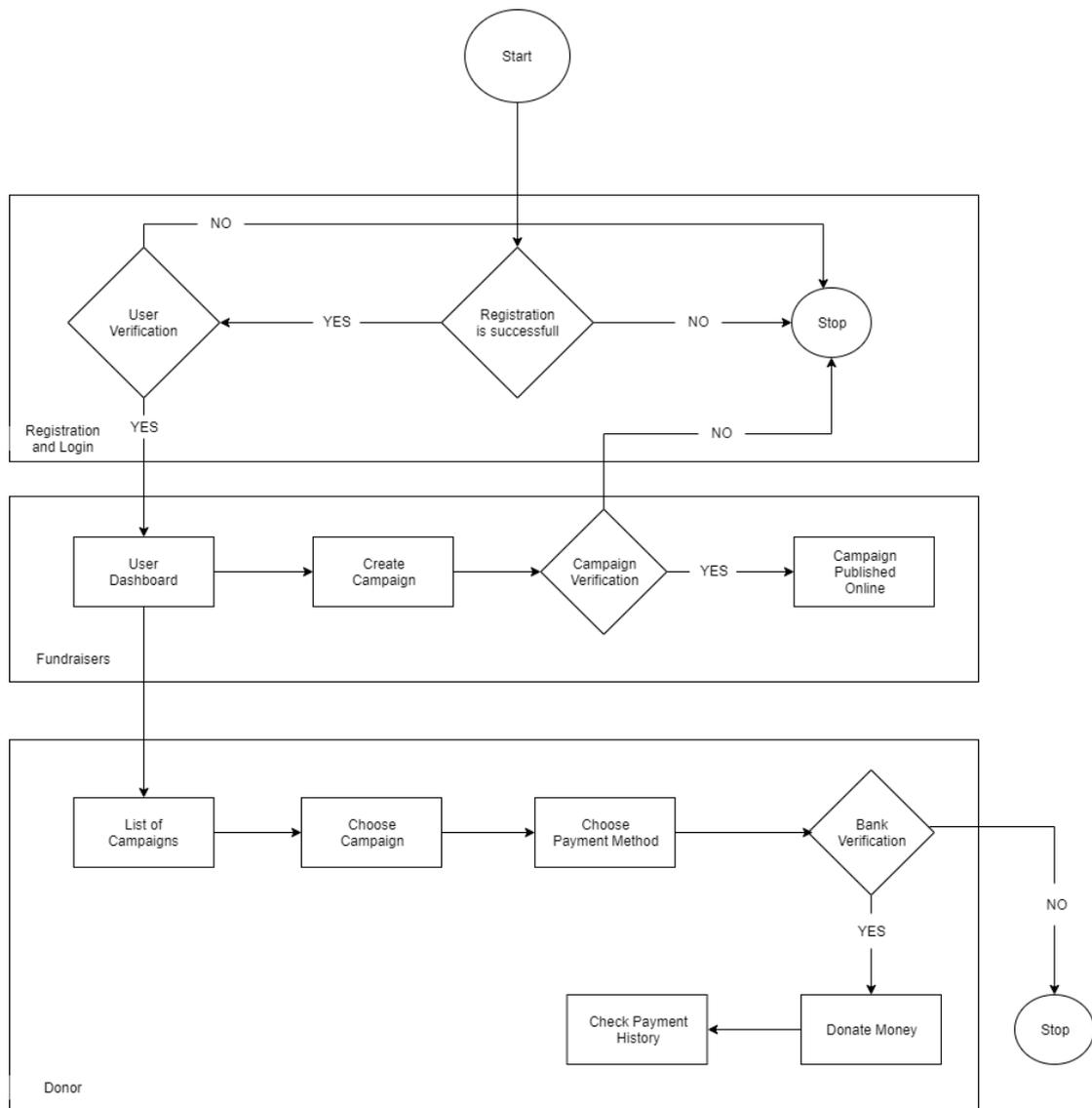


Figure 3.1: Business process model for Sohayota

3.2 Requirement Collection and Analysis:

Before get started, we need to collect requirements according to customers' needs. So we start asking various peoples such as students, job holders, Ngo's etc on various locations. As all of their opinion we've gather some amazing features and benefits for fundraisers and as well as to donors. As we found, many people are worried about the security and the process of the donation money.

So, we developed a system where peoples can create an event by their own and they can upload videos and photos on that event / campaign so they can easily share their opinion directly to the donors. Also, if a donor wants to he/she can directly contact with the fundraiser via text messaging option which provided by Sohayota platform. Not only this, Donors can track each and every transactions of a specific campaign which help to keep transparency of the transaction of the donating money.

If a donor wants to cancel the donation, sohayota allows a donor to cancel / withdraw the funded money from a campaign. All they have to do, create a withdraw request from the website and after that in a couple of times later he/she will get the money which they already funded.

Also, If any fundraisers found fraud, only "Sohayota" admin can take any action to the fundraiser and "Donor" will send a request directly to admin for refund. Also, "Sohayota" admin have rights to stop the campaign and refund the all collected donations to the donor.

Requirements:

There is few requirements to create a campaign.

- (A) Internet connection
- (B) Smartphone
- (C) Bank Account for payment withdrawal
- (D) National ID Card

3.2.1 Functional requirements:

Registration: To be a donor / fundraiser, user must have to be a registered user in the website. Without registration user cannot run any campaign or donate any amount of money on campaigns. To registration, users must have to register with their username, email, phone number & password.

Login: User logins to the system by entering valid user id and password for customize system.

Run a campaign: When a user logged in then he/she can create their own fundraising campaign from their dashboard which they will be redirected after login automatically. Then They've to click on campaign button from dashboard and after that by clicking add new button they will redirect to the create new campaign page and after fill-up all requirement they can publish the campaign by clicking publish button.

Payment: A user can donate their money by mobile banking like Bkash. Right now Card Payment is not available at the site but in future I will add automatic card payment system so can international users can donate their money too.

Business policy: Business policy of “Sohayota” is the most important because there are a lots of cost need to be cover such as – domain cost, server cost, security cost, management team cost etc. So “Sohayota” will charge flat 5% for withdraw raised money. But this percentage can be changed by “Sohayota” management team.

Refund: If any fundraisers found doing fraud, the campaign will stop immediately and all donated amount will refund automatically to their donor's account credit. Because, during the campaign active online, fundraisers cannot withdraw any amount to their financial account from this donation platform. All campaigns will be monitored by the “Sohayota” team itself and management team has rights to decide to take an action against the fundraisers.

Logout: After check all campaigns or donate campaigns customer can be logged out securely by clicking logout button.

Campaign requirements: Users must have to be register to run a campaign and verified with the mobile number also. Maybe in future, “Sohayota” team will add verification system by users National ID card.

User requirements: To run a campaign, users age must have to be 18 or above.

3.2.2 Non-Functional requirements

When a customer enters our web site and searches for different campaigns, the loading time is reduced. So that the customer can easily move from one page to another very quickly and can donate on any campaign easily.

Reliability: The system provides storage of all databases on redundant computers with automatic switchover. The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes. Thus the overall stability of the system depends on the stability of container and its underlying operating system [1].

Security:

- Our system is use Secure Solid Layer for transactions.
- The system of “Sohayota” is automatically log out all customers after a period of time.
- “Sohayota” don’t leave any cookies on the user’s browser which containing the user’s password.
- Back-end server of “Sohayota” is managed by authenticated administrators.
- All Sensitive data such as – gender, age, phone number, mobile banking number etc is encrypted.

3.3 Use case Modeling and Description:

In any application development system it is necessary to show the relationship between the user and the system. This user's interaction with the system can be shown easily by a Use Case Diagram. It has the ability to identify different types of users and company category of the system and the different use cases as well. In other word it is a Unified Modeling Language (UML) that generally describes the set of actions that a system or systems should or can conduct in collaboration with one or more external users of the system, here the actions called as 'use case' and the system called actor. In this diagram four types of Actor Company, customer, seller and e-commerce admin [3].

Table 3.1: Description of use case of working with online donation platform:

Use case name	Working with website
Primary Actor	Fundraiser
Secondary Actor	Authorization of website
Third Actor	Donor
Pre-condition	User must Registered website and login profile
Description	User can access the page, User panel, Campaigns, Login and logout
Post-Condition	If the actor is successful then user will be enter the system user can see the all campaigns. Any user can registered then run a campaign and donate on campaign.

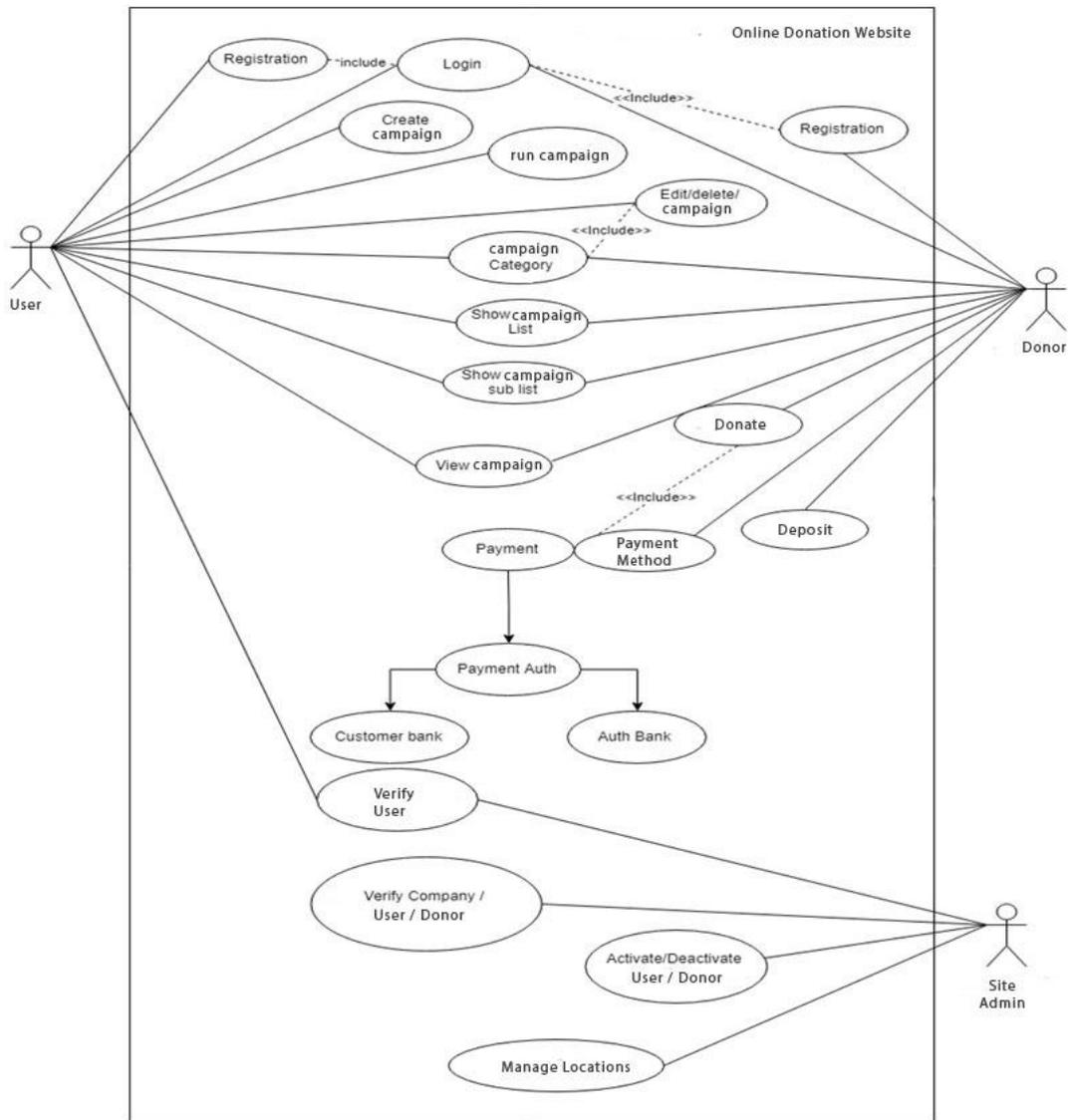


Figure 3.2: Use case diagram of Online Donation Platform

Table 3.2: Description of use case of developing online donation platform.

Use Case Name	Online Donation platform Feature
Primary Actor	Developer of website
Secondary Actor	Donor/Fundraiser
Third Actor	Bank Auth
Pre-Condition	The Developer should be creative and good at developing hole system
Description	The developer take care website and website make more dynamic.

3.4 Design Requirement:

Design requirement for user

- Search the website
- Then you have to register.
- Then login with username, email, and password.
- User can see the website full view.
- View front page.
- Able to see all the option of campaign by filter.
- Able to see all campaigns.
- Any type of campaign can be found by clicking on the search option.
- Clicking on the campaign location can show any campaigns for that location.
- Clicking on the user profile it will bring up all the campaigns of that user.
- Clicking on all campaigns will show all trusted campaigns.
- Click the menu bar and see all campaign categories.
- Click The thumbnail of campaign then it will show details of campaign.
- Click the Donate Now button then donate on campaign.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design:

- Login page design.
- Registration page design.
- Home page design.
- Menu bar design.
- Dropdown button design.
- Campaign list design.
- Contact panel interface design.
- Message option design.
- Donor review and rating design.
- Donate now button design.
- Campaign image size/resize and design.
- Image slider design.
- Font color option design.
- Footer section design.
- Campaign details design.
- Search button design.
- Campaign banner and image slider design.
- Add banner design.
- Problem solving interface design.
- Mobile version and PC version design.

Our project front-end has mainly designed by HTML, CSS, Bootstrap, PHP, JQuery and Javascript.

4.2 Back-end Design

The back-end design is basically how the server, application and database works, update and maintain. It is not visible to the end-user. But it works to support the front-end of the application. Back-end design is the most important part of a project.

- User admin panel design.
- Administration panel design.
- All rating design.
- Table of Campaign list.
- About us page design.
- Add product page design.
- Delivery product page design.
- Order request page design.

I use PHP in our back-end design of our project. I also used mysql database for real time data passing.

User Admin Panel: There will be a user panel for the donor and fundraiser where the donor or fundraiser will be able to create their campaign & update their profile also. This is a back-end page that only registered donor or fundraiser can use.

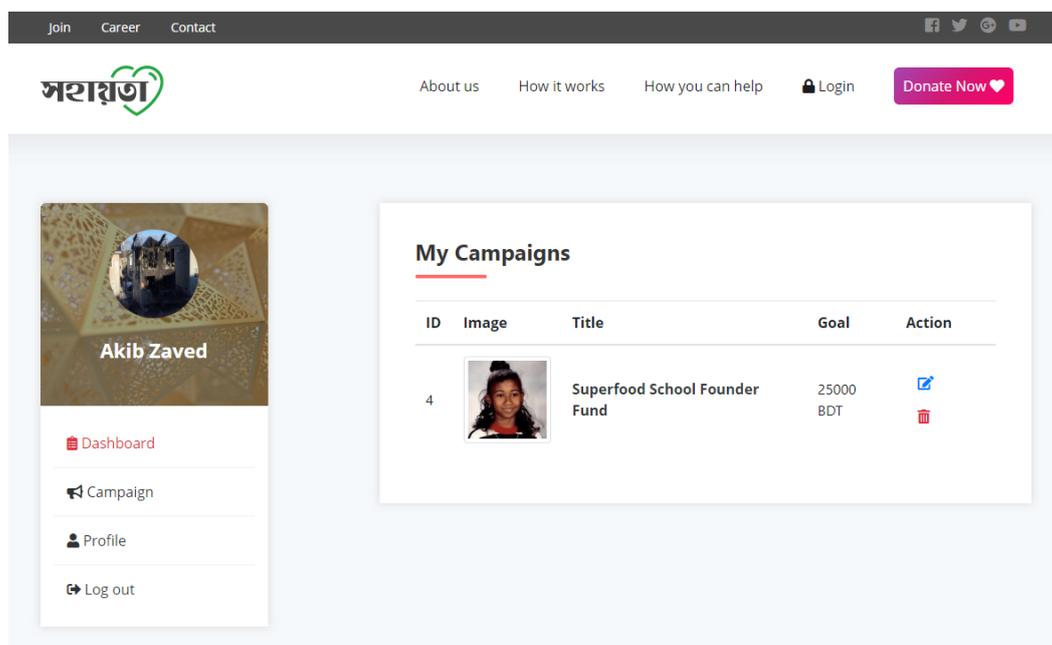


Figure 4.1: Fundraiser admin panel

PHP:

Website design is done with Advance PHP. This is a website development language. Connects to mysql database using php. That is to use static websites or dynamic websites or web applications. Php stands for hypertext pre-processor. All logical tasks of a web site are done with php. This security system is much stronger.

4.3 Interaction Design and UX:

Interaction Design is an important component which is the giant umbrella of User Experience (UX) design and interaction design. (UX) User Experience is specifically which examines the interaction between a system and its user via an interface and it is a discipline [4]. User experience (UX) design is provide meaningful and the process of creating products. And it also personally relevant experiences. It may also incorporate design focused on how information should be presented. It is such a system that is to enable the user for best understand of information. This is considered to be the discipline of “information design” too. Our application is very user interactive. We have tried to make this application’s user interface very easy to understand and use. User Experience most important in our project. The application of User Experience in these project [4].

4.4 Implementation Requirements:

To implement our web base project, we used text editor software and development language which are help us to develop my online donation project successfully. In implementation requirement area, we discuss all those language and components that I’ve used to my project and making activities for the user.

- PhpStorm
- Adobe Photoshop
- XAMPP
- MYSQL

CHAPTER 5

IMPLIMENTATION AND TESTING

5.1 Implementation of Database:

We use database in our project. We complete our project design and development use any code editor. Mysql database provides a relational database management system. Mysql database that is open source and store data to a data table on a server. The database table is created using mysql database. All types of product list, product id and other details are submitted by visiting mysql. We store the database using mysql. Starting from the login and logout database, all information about the website is submitted to mysql server.

5.2 Implementation of Front-end Design:

Homepage: You can enter the “Sohayota” web site and everyone will be able to search the campaigns or view the campaigns. The web site has location filter for campaign. Everyone can see the campaign of his choice but he/she cannot donate any amount of money without registration.

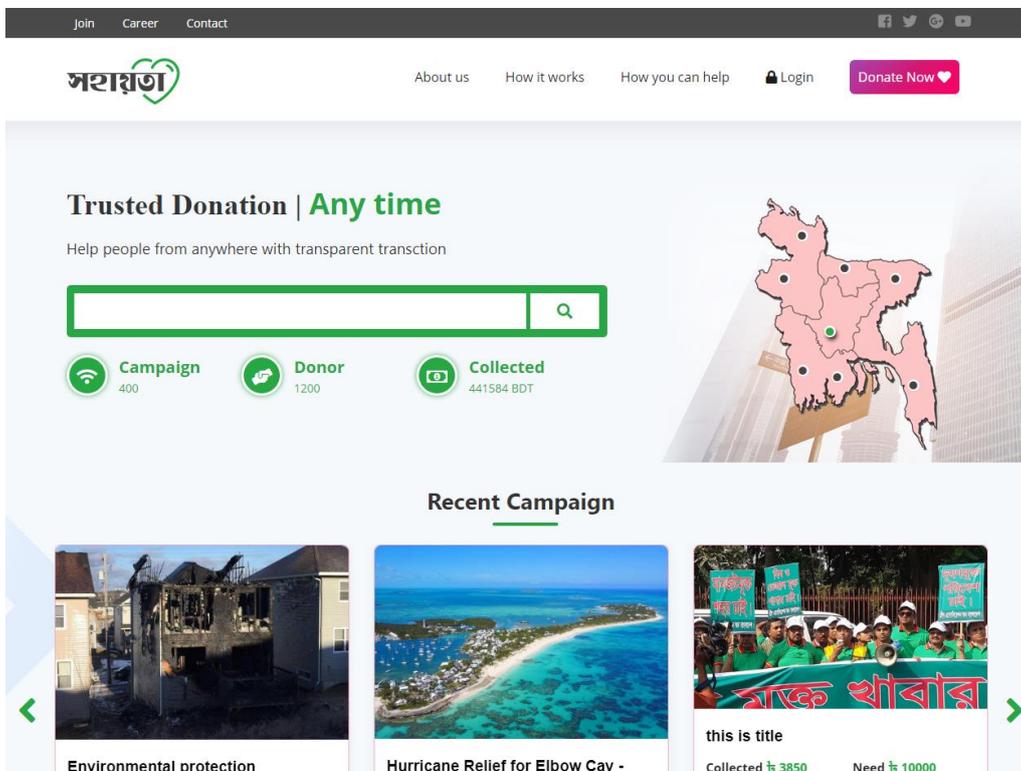


Figure 5.1: Front-end design

Campaign Page: When a user registers on the “Sohayota” website, there is a web page for them to see campaigns.

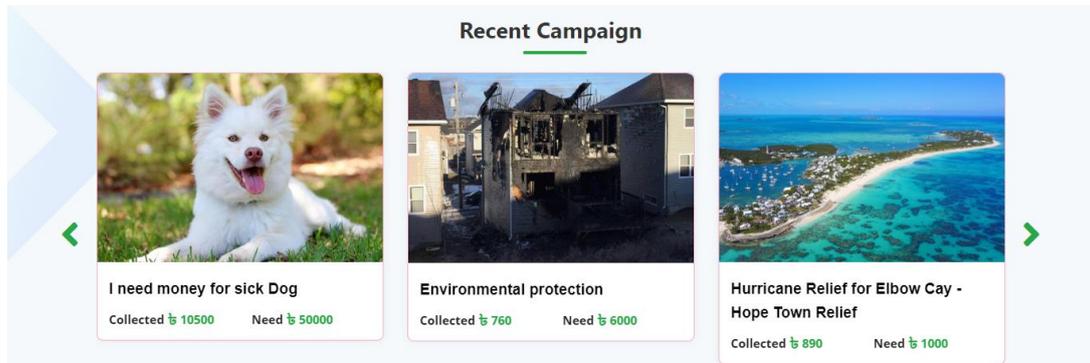


Figure 5.2: Front-end design for campaign view

Campaign details:

If a user wants to donate on campaign then click on the campaign thumbnail or title. After clicking the campaign he/she will show the details of the campaign. Donor will see the all information provided by the fundraiser such as well-written campaign description, images, videos etc. A well-written description has the power to collect a lots of donations from donor. If a donor wants to donate on the campaign he/she have to click on donate now and after that donor will get option for donate the money.

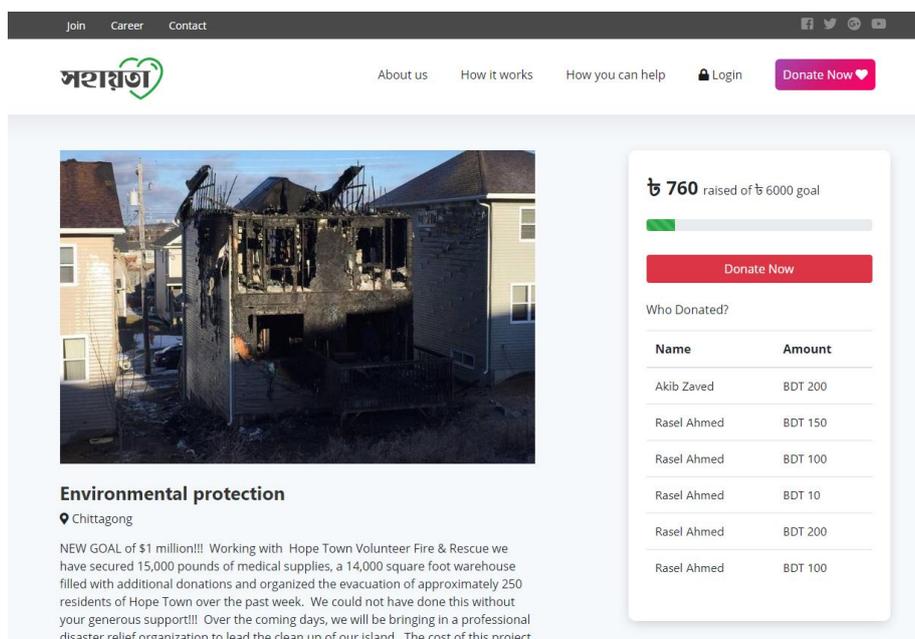
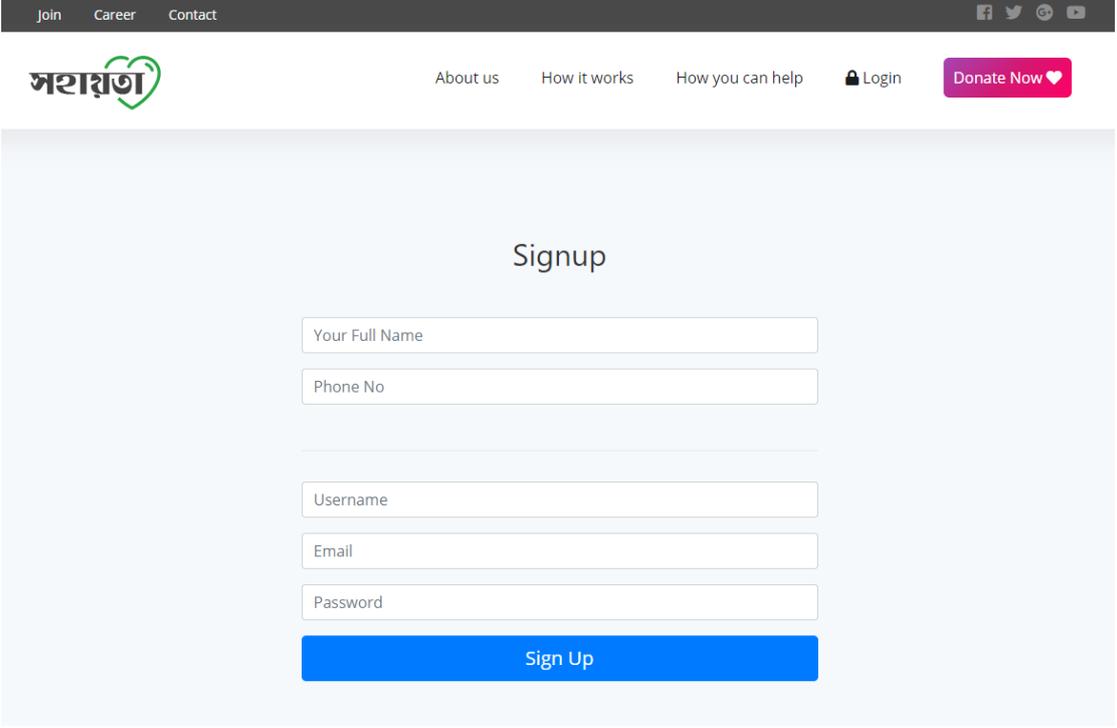


Figure 5.3: Campaign Details

Registration Page: If a user wants to donate or run a campaign, then he/she has to make a account. In that case – user have to go signup page and have to fill-up the registration form using their username, email, full name, phone number.

If a user already has an account, they cannot create an account by same username / email. They must have to use different username / email address to create an account on “Sohayota” website.

After successful registration processes, user will redirect to the login page automatically so user can login on their dashboard.



The image shows a screenshot of the user registration form on the Sohayota website. The page has a dark header with navigation links: "Join", "Career", and "Contact". On the right side of the header, there are social media icons for Facebook, Twitter, and YouTube. Below the header, the Sohayota logo is on the left, and navigation links "About us", "How it works", and "How you can help" are in the center. On the right, there is a "Login" link with a lock icon and a pink "Donate Now" button with a heart icon. The main content area is light blue and features the title "Signup" in the center. Below the title, there are five input fields: "Your Full Name", "Phone No", "Username", "Email", and "Password". At the bottom of the form is a blue "Sign Up" button.

Figure 5.7: User registration form design

Login Page: If anyone wants to login to the Sohayota website, he/she have to go on login page and they can login by their username & password.

The image shows a screenshot of the Sohayota website's login page. At the top, there is a dark navigation bar with links for 'Join', 'Career', and 'Contact'. Below this is the Sohayota logo and a secondary navigation bar with links for 'About us', 'How it works', 'How you can help', 'Login', and a 'Donate Now' button with a heart icon. The main content area is a light blue box titled 'Login' containing two input fields for 'Username' and 'Password', a blue 'Sign in' button, and links for 'Register Now' and 'Forget Password'.

Figure 5.8: User login form design

5.3 Test Results and Reports

Every project needs an output as a result. As per my testing experience I've found all expected results. Every user can use it and can communicate with admin by using phone number, email or message.

CHAPTER 6

CONCLUSION AND FUTURE SCOPES

6.1 Conclusion

Need of a Online donation in our society is very important. By online donation platform peoples can help each other. So everyone can solve their issues by their unity.

By using transparent transaction will also help to build trust & as a fundraiser it will be a great community to share their stories in front of everyone. At the end, it will help our country to remove poverty from our society & our country will become stronger.

6.2 Future Scope

In future, everything will be done on internet. Such as internet banking, online education, online healthcare etc. So I believe, online donation platform has huge market in future and people will use the platform to donate money for helping other peoples.

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