

“Volunteering Service in Bangladesh”

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

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APPROVAL

The title of this Report is “Volunteering Service in Bangladesh”, which is submitted by Md. Ruhul Amin and Md. Anannya Raj to Daffodil International University in Computer Science and Engineering, and it has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and excepted as to its contents and style. On this purpose our presentation was held on 12th July, 2020.

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DECLARATION

We confidently declare that, this web-based project and paper work has been prepared by Md. Ruhul Amin and Md. Anannya Raj under the respected supervisor **Md. Mahfujur Rahman, Lecturer**, Department of CSE, Daffodil International University and respected co-supervisor **Md. Reduanul Haque, Sr. Lecturer**, Department of CSE, Daffodil International University. We also declare that neither this project nor any part of this project has been submitted anywhere in any purpose like awarded or diploma and degree.

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ABSTRACT

This statement presents the different types of volunteering services in Bangladesh. In this project, we developed a website which can help the general people, social worker to find various services in any emergency situation. VolunteerBD is a system of online web application. It will help the people to find the crying need based on their situation, like searching for blood donor, raising social awareness, deserter management situation. This application has been developed by content management system (CMS) using Laravel framework and written in Php, MySQL, java script, Bootstrap4, HTML5 and CSS3 functions. The application has been designed as a web-based program to those users', who needs volunteer in emergency situation. Our site will be responsive, user friendly & dynamic to the users.

Keywords: PHP, MySQL, XAMPP, Html, CSS3, Java Script, jQuery, Bootstrap4, Laravel

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CHAPTER 1

Introduction

1.1 Introduction:

The aim of this project is to provide the essential service to the common people based online. It also provides a guide for us to undertake the project successfully through gathering essential health care information relating to the fundamental issues that can support and improve to design the website. This project will help people to find emergency help in any situation in anywhere. We develop this project for social welfare. We hope through this project our youth will learn to help people in every possible way.

1.2 Motivation:

Nowadays, most of the people of our country are suffering various kinds of problems like need of shelter during disaster, need blood in any emergency situation. Most of the people don't know how to cope with this situation. Firstly, they waste their valuable time and money because they don't find the right way in crisis. They don't know who is going to help them and how. For this reason, we are developing a web site where a person can find any kind of help during any kind of emergency situations in anywhere.

1.3 Objectives:

Mainly are developing this website for the common people like if a common people need help from others in different type of situation like in environmental problem and flood affected areas I can easily asking for help through our website and our volunteer team will help him to get escape from the situation.

Result:

- This application will be the user friendly to the patient.
- A patient can find the doctor in their local area.
- A patient can select the symptoms
- After analyzing that symptoms our site will suggest the specialized doctor based on his/her diseases.
- A patient also can book an appointment with the doctor in their available time.

CHAPTER 2

Background

2.1 Introduction:

Volunteering is not just a means of helping individuals or causes; it is a huge boost to the economy of this country and ultimately benefits society as a whole. It is very rewarding and volunteers often develop new skills and gain confidence in working under any situation. The aim of the project is to provide the different type of social services for the common people. Through this project we try to connect different areas people in their different type of crisis. We use HTML CSS for designing and Laravel as framework and database for collecting the information of users.

2.2 Related works:

At the point when the web idea acquainted with the world that time the web has the static stage. At that point to construct a website page utilized html for do this. The dynamic web idea come in 1993 in the last 25 years prior when the CGI (Common door Interface) was presented. After that php, python, ASP.NET was come to manufacture the dynamic site. Today in web application has content Management System stage where a people can without much of a stretch form a dynamic application effectively and User can associate with the site whenever. Related similar work like jaago.com.bd they try to reach the poor people and bring about substantial improvement in the lives of deprived peoples and children with special care on their nourishment and education.

PART 3

Specification & Requirement

3.1 System Requirements:

For developing the website, we have to work with hardware and software so now we are going to discuss about the requirement of this system. We used all the data in this system. We would like to ensure that this framework is working good with the PC equipment.

3.1.1 User Requirement:

While developing this project we have to deal with user requirements.

- Overview of the website.
- Search for a location.
- Search for Donors.
- Information about donors.
- How to maintain the conversation.

3.1.2 Requirement Components:

To carry out the project we need hardware and software those are given below:

Requirement for Hardware:

If we want to run this project, we need minimum one pc and internet connection.

Processor	Intel Pentium/AMD processor (500 MHZ)
Motherboard	Any
Ram	512 or more
Lane	Any
AGP Card	Any
Hard Disk	60GB
Floppy Disk (not mandatory)	1.44 MB
Casing	ATX
Monitor	Any Color Monitor
Keyboard	Any
Mouse	Any
CD ROM	52X

Table 1: Hardware Requirement

Requirement for Software:

We used different kind of software to maintaining and developing this project website.

Detail is Given down:

Software	Usage
different version of operating system	computer hardware elements, customized software. and application
Xampp-control	For providing the service for the project
visual studio code	For server-side scripting
PhpMyAdmin	For Database Server
Photoshop	For images, Logos

Table 2: Software Requirement

3.2 Use case Diagram:

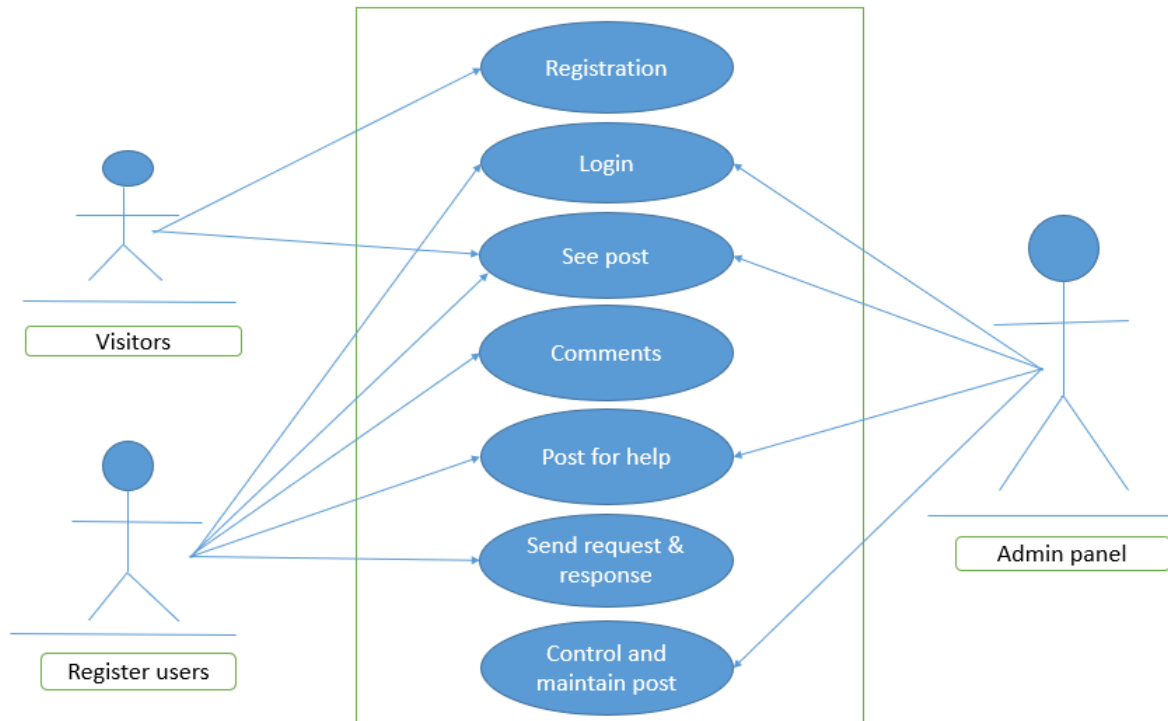


Figure 2: Use case Diagram

Use Case Id:	1
Use Case :	Enter
Created By	Ruhul Amin
Date of Creation	08-02-2020
Description	It utilization case will enable the client to enter the software and he can see details.
Prime Actor	Visitor
Subordinate Actor	None
Precondition	
Post condition	It will show the main page.

Table 3: Use Case 1

Use Case Id:	2
Use Case:	Sign in
Created By:	Raj
Date of Creation:	01-01-2020
Description:	User can registration to this website.
Primary Actor:	Register User
Secondary Actor:	None
Precondition:	Login
Post condition:	Show all the features.

Table 4: Use case 2

Use Case Id no	3
Use Case	Seek donation
Created By	raj
Date of Creation	01-02-2020
Description	It will create a post for asking for help.
Primary Actor	Registered User
Secondary Actor	System
Precondition	None
Post condition:	Create the post for seeking help.

Table 5: Use Case 3

Use Case Id:	4
Use Case Name:	Response
Created By:	Ruhul Amin
Date of Creation:	05-02-2020
Description:	Volunteer can response through this use case.
Main Actor:	Donor
Subordinate Actor:	Resister users
Precondition:	None
Post condition:	None

Table 6: Use case 4

Data Model:

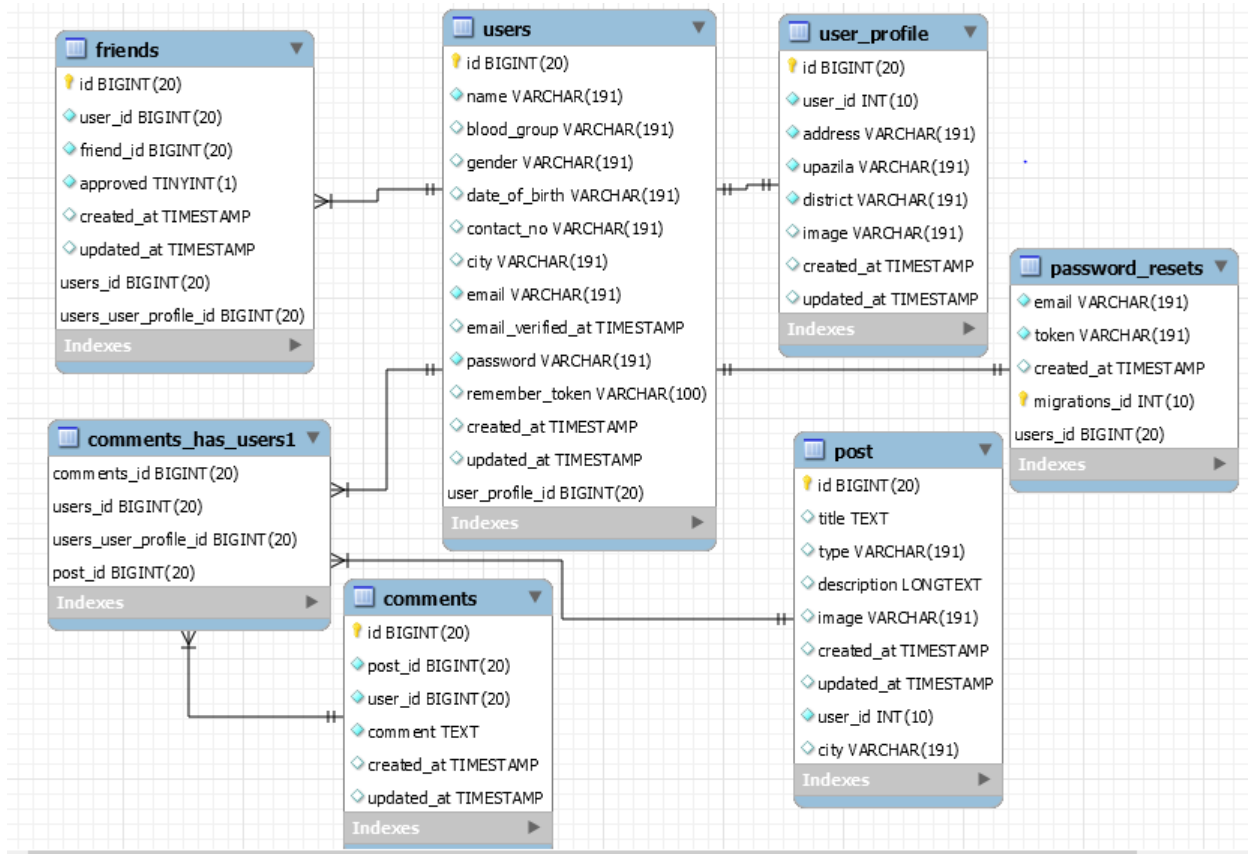


Figure 3: Logical data model

CHAPTER 4

Design Specifications

4.1 Front-end Design

To complete front-end development, we've used some programming languages in our project such as:

- HTML
- CSS3
- Bootstrap4
- JavaScript
- jQuery libraries

4.2 Back-end Design

For front-end development, we've used:

- Server side languages- PHP
- MySQL Server for Database management.
- Laravel Framework

4.3 Description:

- A user can register to our site and asking for help.
- A user can find support in any local area.
- A volunteer can update their profile.
- Visitor can see the posts & Volunteers profile
- Admin can update delete & insert any data

4.3.1 Website page Information:

1. Home page
2. Seeking Donations
3. Donors
4. About
5. Login
6. Register

4.4 Data Flow chart:

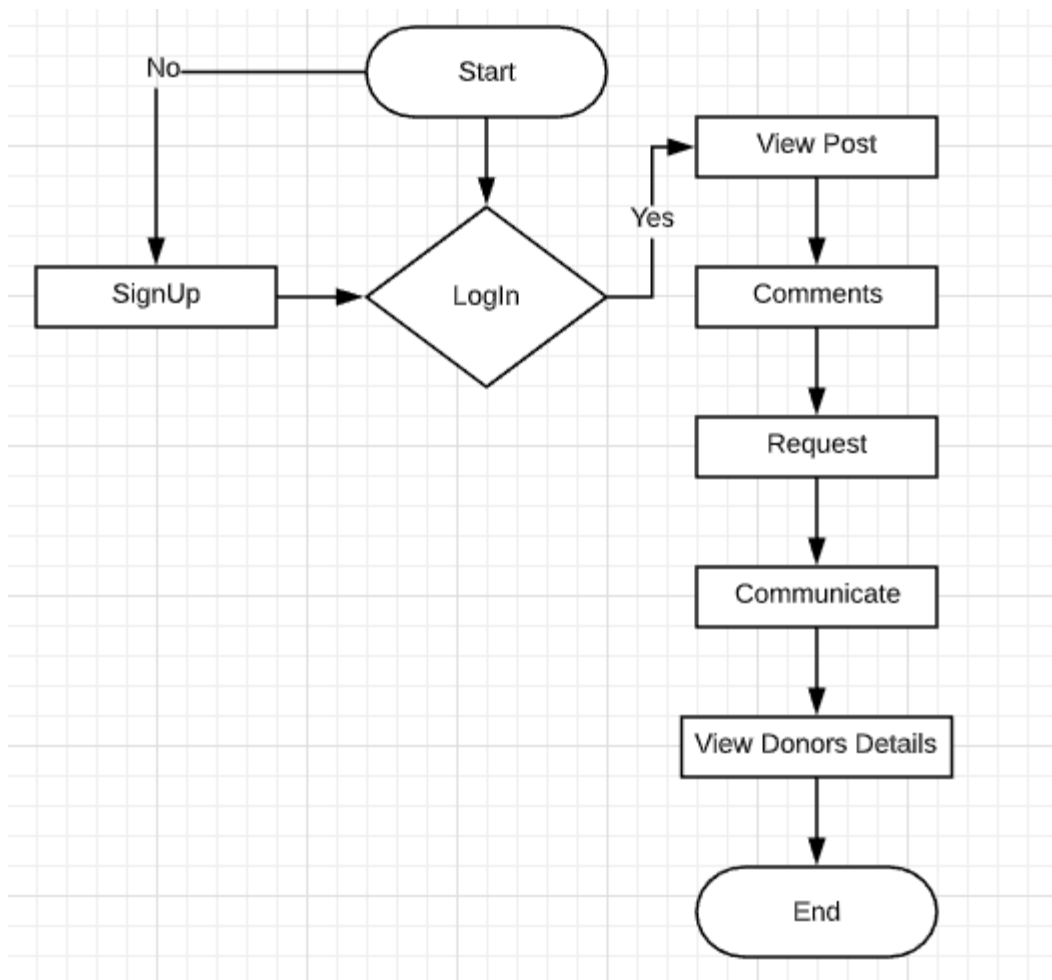
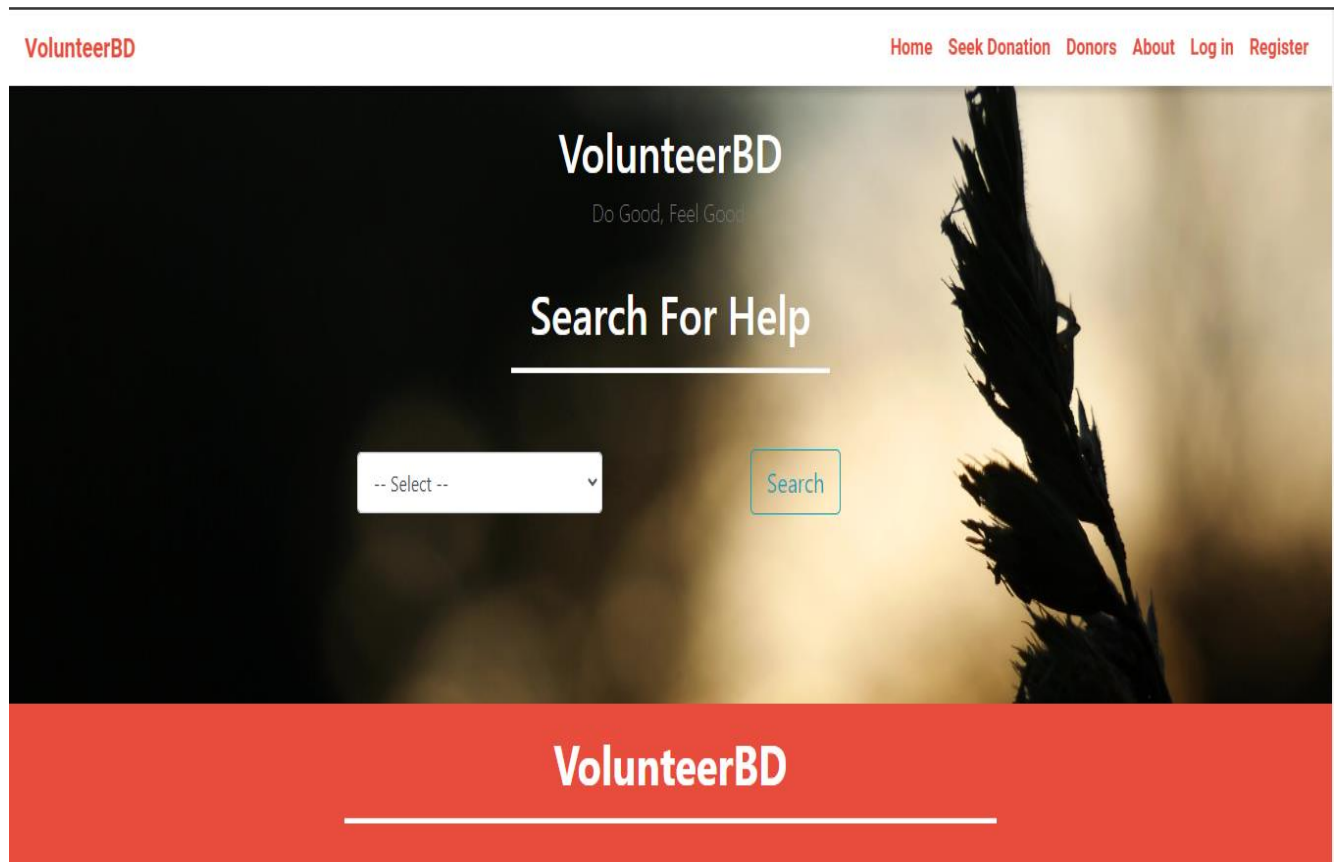


Fig4: Data Flow chart

4.5 Volunteering Service:

4.5.1 Home page:

The home page will provide all basic details on our website and by which visitors can see the posts. As an online volunteering service, the home page and its features are shown on this page.



4.5.2 Users Registration:

If anyone wants to post something then he must have to register by filling up the required fields of this registration page.

Figure 6: Register

4.5.3 Log in Page:

The registered user has to log in using email & password for creating post & replying to others.

VolunteerBD Home Seek Donation Donors About Log in Register

Sign In

Sign In

Email/Phone no.

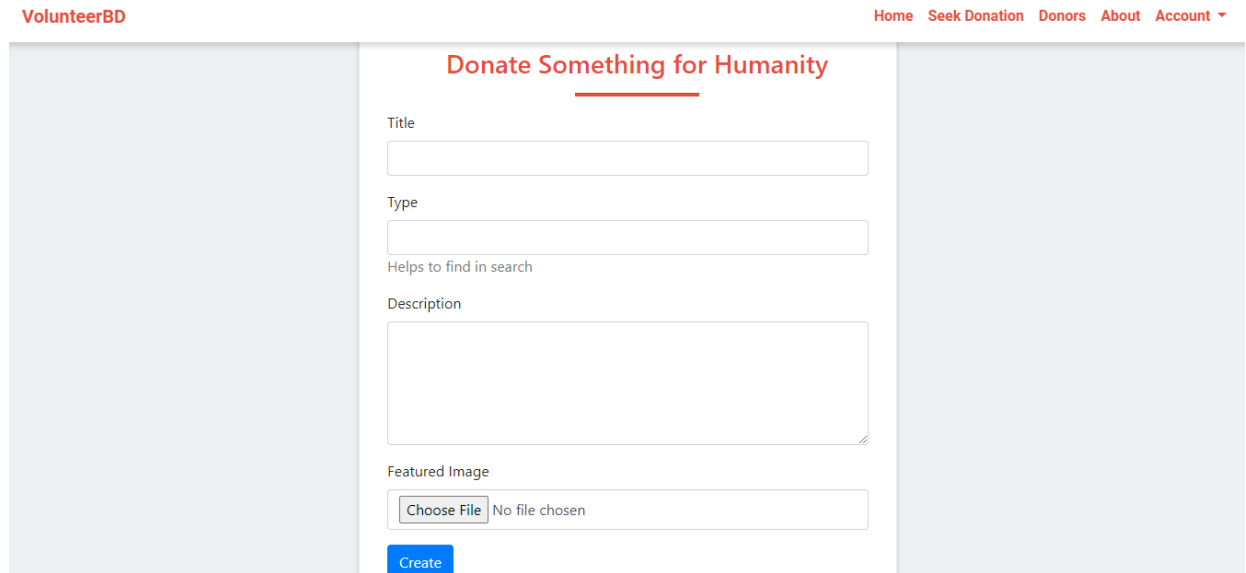
Password

Sign In

Figure 7: Sign IN

4.5.4 Seek Donation:

Registered User can ask for help by entering this section.



The screenshot shows a web form titled "Donate Something for Humanity" on the VolunteerBD website. The form is located in the center of the page, flanked by grey vertical bars. At the top left, the text "VolunteerBD" is visible. At the top right, a navigation menu includes "Home", "Seek Donation", "Donors", "About", and "Account" with a dropdown arrow. The form itself has a red title "Donate Something for Humanity" with a red underline. Below the title are several input fields: "Title" (a single-line text box), "Type" (a single-line text box), "Helps to find in search" (a single-line text box), "Description" (a large multi-line text area), and "Featured Image" (a file upload box with a "Choose File" button and the text "No file chosen"). At the bottom of the form is a blue "Create" button.

Figure 8: Create a post

4.5.5 Post update:

One can edit or delete the post.

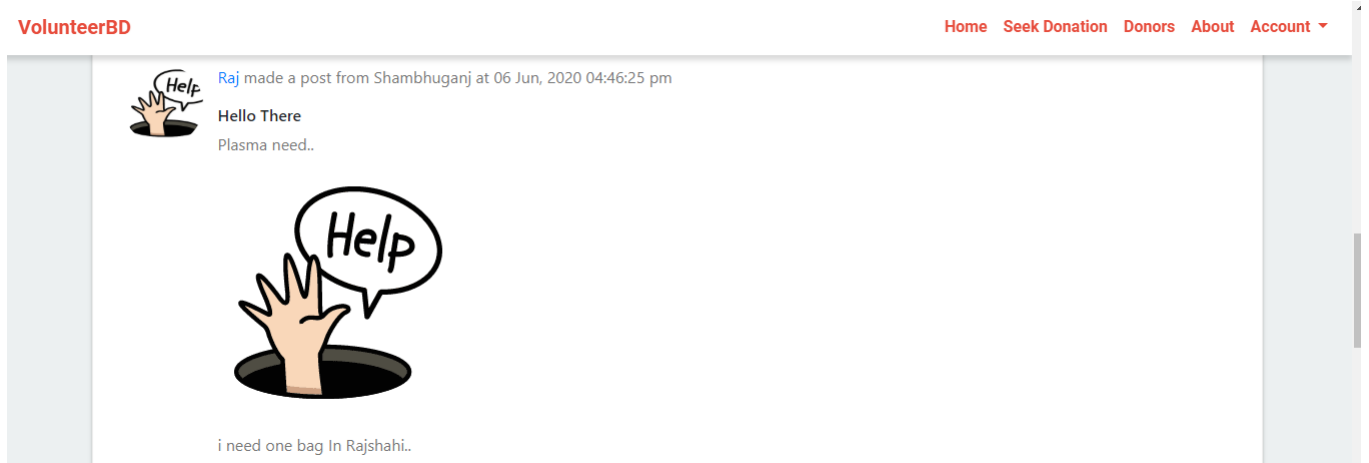


Figure 9: Post update

4.5.6 Donors:

By visiting this section, we can see the donor's information & his posts.

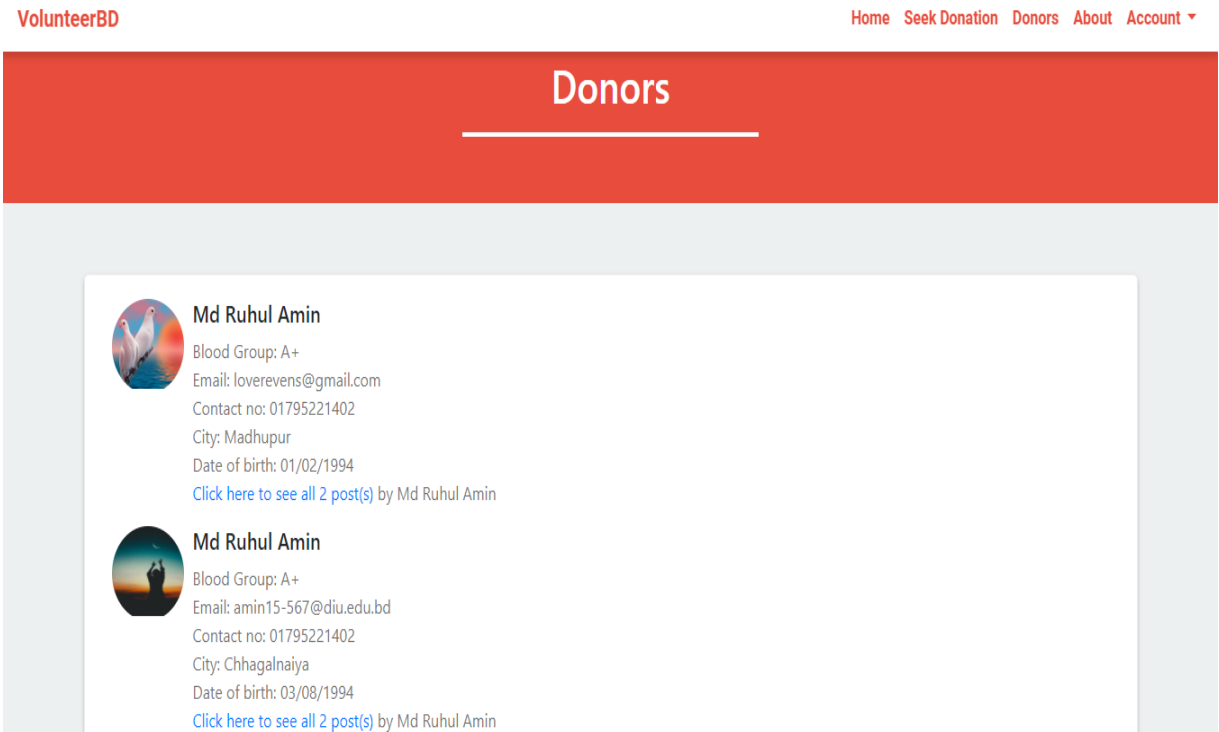
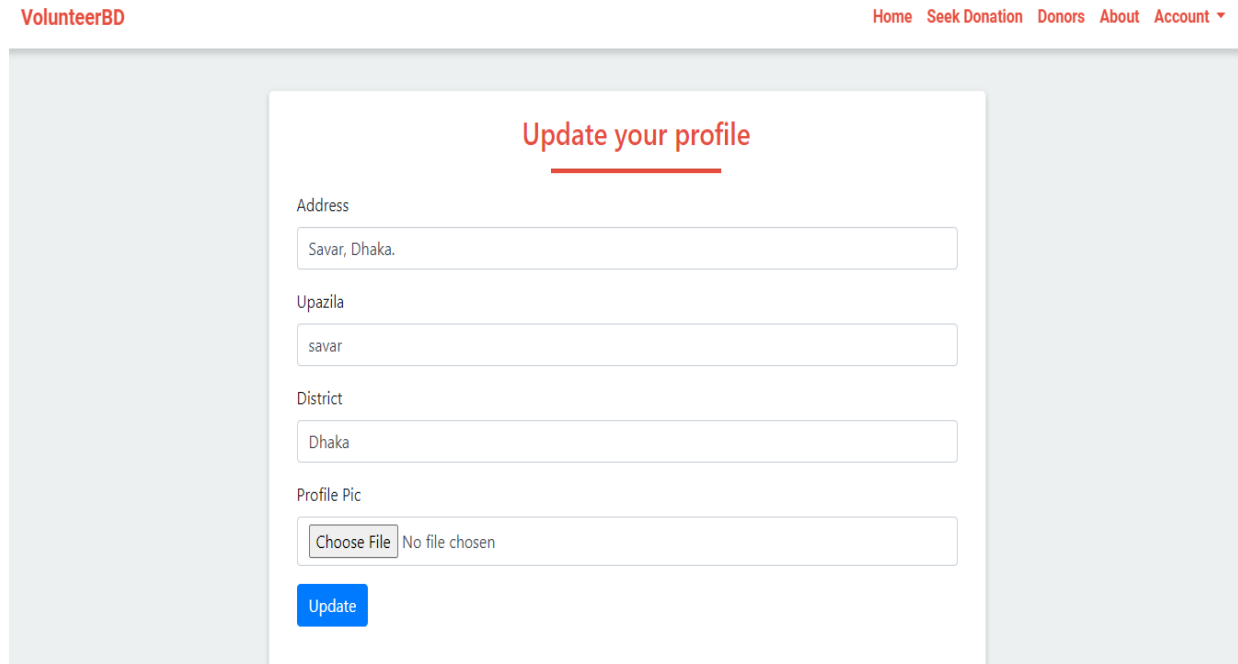


Figure 10: Donors

4.5.7 Update Profile:

User can update their profile and add more information.



The screenshot shows the 'Update your profile' form on the VolunteerBD website. The form is centered on a light gray background. At the top left, the text 'VolunteerBD' is visible. At the top right, there is a navigation menu with links: 'Home', 'Seek Donation', 'Donors', 'About', and 'Account' with a dropdown arrow. The form itself has a white background and a red title 'Update your profile' with a red underline. Below the title, there are four input fields: 'Address' with the value 'Savar, Dhaka.', 'Upazila' with the value 'savar', 'District' with the value 'Dhaka', and 'Profile Pic' with a 'Choose File' button and the text 'No file chosen'. At the bottom of the form is a blue 'Update' button.

Figure 11: update profile

4.5.8 About Selection:

Visitors can learn about our mission, vision And Goal in this section.

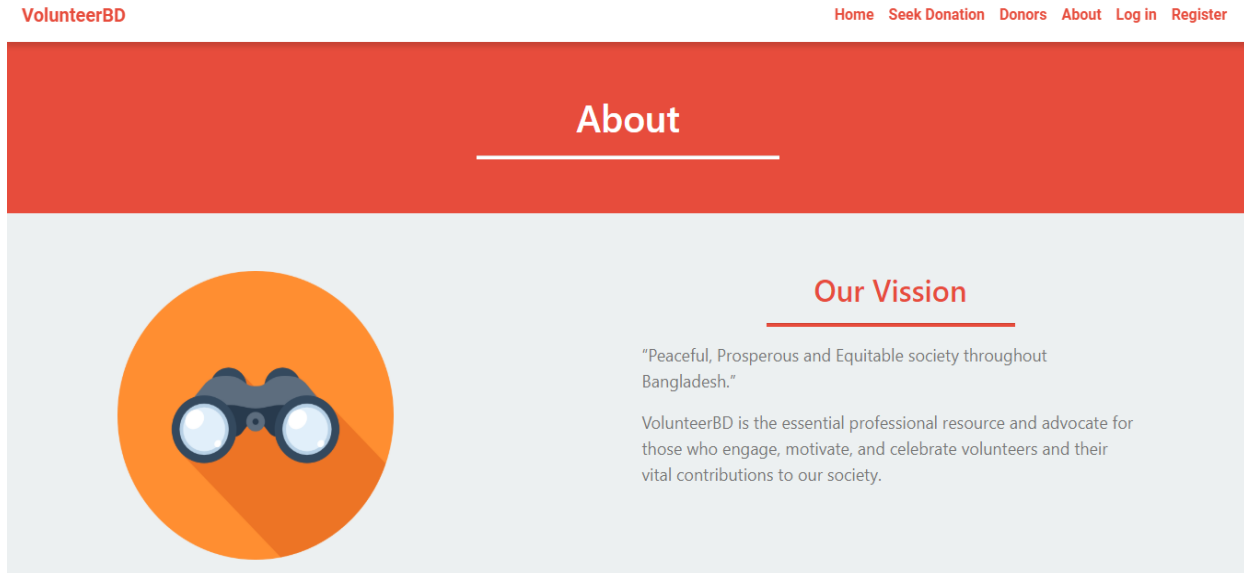


Figure 12: about page

4.5.9 Admin Panel:

Admin show, edit and delete the posts.

VolunteerBD Home Seek Donation Donors About Account ▾

Here is your Index View

All Bank

#	Title	Type	Description	Image	Action
1	Help	volunteer	wddswa		Show Edit Delete
2	Volunteer	Volunteer need Dhaka.	We need volunteer need in dhaka assp.....!!!!	1591462157.jpeg	Show Edit Delete
3	Hello There	Plasma need..	i need one bag In Rajshahi..	1591461985.png	Show Edit Delete
4	hello	we need help	need blood A+.....	1591460936.png	Show Edit Delete
5	Help	blood	i need A+ blood	1591460705.png	Show Edit Delete

Figure 13: admin panel

4.5.10 Contact Us:

The patient can contact us by sending their message.

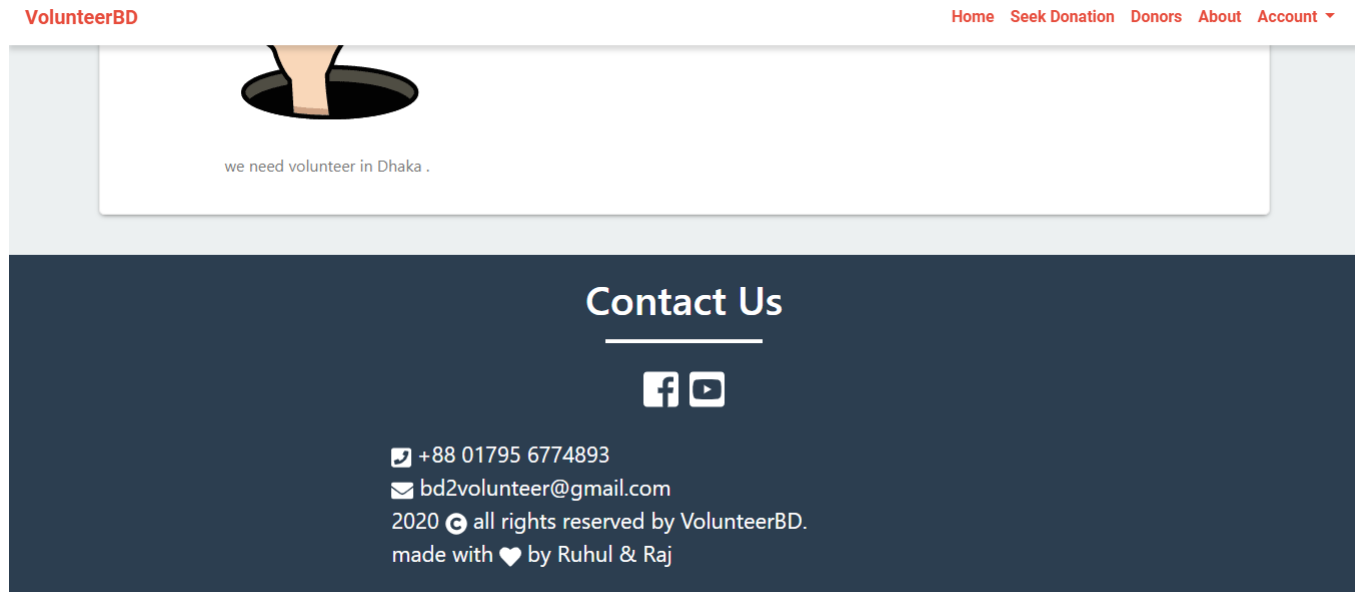


Figure 26: Contact

Chapter 5

Testing and Implementation

5.1 Database management:

Data management is very important for storing data and retrieving data from the database. For this project, try to make a good database management by using My SQL database.

5.1.1 Database illustration:

Migration: A migration has a unique id, has migration when admin or user can edit, delete a post.

User info: User has a unique id, has a name, blood group, date of birth, contact number, city, token id and email in the database that have been shown on the website.

Seek Donation: Specialist type has unique id, title, type, image and user id and city that have added in the database.

Post: A post has a unique id, title, description, image and a user id in the database.

Friend Request: Has an id, sender id and receiver id in the database.

5.1.2 Database Objects:

Password resets: email, token, created at

Post: id, title, type, image, created at, updated at, user id, city

Users: id, name, blood group, gender, date of birth,

User profile: id, user id, address, created at, updated at

Friends: id, user id, friend id, approved

Comments: id, post id, user id, comment

5.1.3 Entity Relationship Diagram:

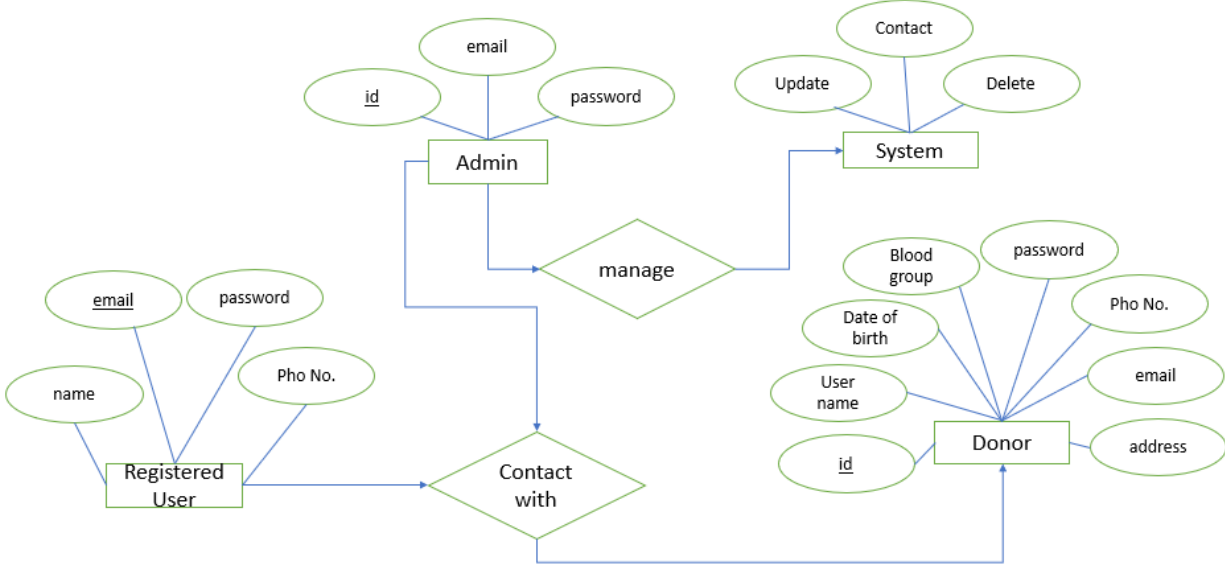


Figure 27: Entity Relationship Diagram

5.2 Database table Figure:

```
CREATE TABLE `users` (  
  `id` int(11) NOT NULL,  
  `username` varchar(30) COLLATE utf8mb4_unicode_ci NOT NULL,  
  `user_email` varchar(50) COLLATE utf8mb4_unicode_ci NOT NULL,  
  `user_password` varchar(100) COLLATE utf8mb4_unicode_ci NOT NULL,  
  `user_image` varchar(10) COLLATE utf8mb4_unicode_ci NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
```

Figure 20: Users

```
CREATE TABLE `friend_request` (  
  `id` int(11) NOT NULL,  
  `sender` int(11) NOT NULL,  
  `receiver` int(11) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
```

Figure 21: Friend Request

```
CREATE TABLE `friends` (  
  `id` int(10) UNSIGNED NOT NULL,  
  `user_one` int(11) NOT NULL,  
  `user_two` int(11) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
```

Figure 22: Friends


```

public function up()
{
    Schema::create('user_profile', function (Blueprint $table) {
        $table->bigIncrements('id');
        $table->unsignedInteger('user_id');
        $table->string('address');
        $table->string('upazila');
        $table->string('district');
        $table->string('image')->nullable();
        $table->timestamps();
    });
}

```

Figure 23: User Profile

```

public function up()
{
    Schema::create('post', function (Blueprint $table) {
        $table->bigIncrements('id');
        $table->text('title')->nullable();
        $table->string('type')->nullable();
        $table->longText('description')->nullable();
        $table->string('image')->nullable();
        $table->timestamps();
    });
}

```

Figure 24: Create Post

```

public function up()
{
    Schema::table('post', function (Blueprint $table) {
        $table->unsignedInteger('user_id');
        $table->string('city')->nullable();
    });
}

```

Figure 25: Edit Post

5.3 Implementation of Front-end Design:

Advancement of customer side of WA is called front-end improvement and front-end (FE) itself is then acknowledged as each substance client can see and can cooperate within a program. It is typically a blend of Hypertext Markup Language (Html), JavaScript (JS), and Cascading Style Sheet (CSS). These dialects are composed and managed by an internet browser, bringing about a website page - interface client can collaborate with. The set of all accessible website pages is called a site.

CHAPTER 6

Conclusion and Future scope

6.1 Discussion:

For improving basic Public health condition of community people. Conserving, promoting and protecting environment and culture for future generation. Minimize the risk of natural disaster and provide relief and safety to vulnerable communities.

6.2 Conclusion:

As we know that Volunteering isn't a Choice, it's a Responsibility for every human. This platform Volunteering service in Bangladesh allows an individual part of people to grow into a responsible citizen band hope their contribution is appreciated with appreciation letters, certificates, and recommendation letters after successfully completing the campaigns and programs.

6.3 Future scope:

- We will add admin log in system and also add user comment section.
- Spread this division wise
- In future we will build it mobile application
- we will be adding more options and many other services

References:

- [1]. <https://serac-bd.org/volunteering/>
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- [2]. <https://jaago.com.bd/about/>
- [4]. <http://secondwindmovement.com/volunteer-websites/>
- [5]. <https://www.volunteeringoptions.org/international-volunteer-organizations/>