

ABSTRACT

“Blood Donation Campaign Organizer” (BDC Organizer) is the name of our website which helps organizer to setup the camps easily. We believe that conventional way of organizing is not that efficient though we are taking help of technology.

For conducting these campaigns, organizer have to register himself/herself first then enter their all necessary details camp. Donors can visit the website and register in the campaign. Organizer can see registered donors and keep them posted. He/She can remind them of campaign via E-mail, download data of donors.

BDC Organizer is developed for organizers convenience. Rather than using Google form, WhatsApp, Excel sheets, we provide organizers one single platform.

ACKNOWLEDGMENT

It gives me immense pleasure to express my gratitude to those who are associated with my project “Blood donation campaign organizer” as partial fulfilment of course BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) affiliated by the University of Mumbai.

I am very thankful to the principal of M.L. DAHANUKAR COLLEGE, Dr. D. M. Doke for his kind cooperation in the completion of my project.

I am also grateful to our Head of Department “Smt. Archana Talekar” and my project guide “Mrs. Navneet Kaur Nagpal” for being resourceful, helpful, and also for their constant support, helped me complete this project.

Last but not the least, I would like to thank the IT Department, for all teaching and nonteaching.

DECLARATION

I hereby declare that the project entitled, “Blood Donation Campaign Organizer” done at MUMBAI, MAHARASHTRA has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfilment of the requirement for the award of the degree of BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) to be submitted as a final semester project as part of our curriculum.

Shubham G. Patil and Jay Y. Sawant

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CHAPTER 1:

INTRODUCTION

1.1) Background

Many countries facing chronic blood shortage. Donating blood, not only saves many lives but also gives an opportunity to add value to your life. There is no substitute for human blood. As we have seen the need of blood/plasma is more than ever in this pandemic situation, social media's (Twitter, Facebook etc.) timeline's were flooded by the requests for help.

Many deaths could have been avoided if there was no blood shortage. We cannot completely avoid these but can try to reduce it by making more blood units available, conducting donation campaigns. And that's where our website come into picture.

1.2) Objectives

- Ease the process of organizing blood donation campaigns.
- It allows organizer to easily set the camp so there will be more blood donations.
- And eventually number of available blood units will increase.
- BDC Organizer provides advantage of using only one platform unlike other organizers.
- BDC Organizer replaces conventional time consuming ways of organizing and reminding donors.
- Organizer has announcement section where he can post any updates related to camp.
- Many donors are unaware of eligibility to donate so there is eligibility window.
- Beforehand donor will check and then proceed further.
- That would be beneficial to not only organizers but also to donor as it will save his/her time.
- After registrations of donors, organizer can see list of donors and can filter them by time slot they have chosen and by their blood group.

1.3) Purpose

In India, more than 38,000 of blood donations are needed every day. A single car accident victim can require 100 units of blood. Every year our nation requires about 5 crore blood units out of which only meager 2.5 crore units are available. So our website helps to conduct such campaigns to fill the gap of need.

Drawbacks of Typical way of organizing campaigns:-

- Organizers need to make posters of event, then circulate them on social media, societies and expect that people will show up to donate blood. As here we are unaware of how many of them will come.
- Other way is to circulate Google forms asking for details of participants, to register. And here advantage is organizer already got an idea how many will come. By that he can prepare for event, facilities, beds needed etc. Organizer can answer their queries or notify them with further notices regarding campaign. Organizer adds them in whatsapp group by time slot preferred by donors. This causes multiple whatsapp groups.
- This system make you switch between 2 to 3 platforms, and this is also very hectic and tedious process for organizer and donor.

1.4) Scope

1. Organizing event:-

Help event managers/organizers to organize event. Add event details, add venue date and time and other details. Organizer can update the details of camp if there is any.

2. List of participants:-

Organizer can see list of donors registered in campaign. He can update or can delete data.

- Update/remove donor -**

If somebody mistakenly entered wrong details in Google forms, to correct it they resubmit the form again, It causes problem and confusion in excel sheet (which is generated automatically in Google form) for organizer. On our website, organizer can edit the donor details and even can remove the donor.

3. Remind everyone:-

To remind donors about camp, we send them E-mail.

4. Filter donors:-

Filter participants by their blood group and time slot they have chosen.

5. Announcement section:-

Here organizer can announce anything related to campaign.

6. Edit the campaign details:-

Organizer can edit the details of camp.

7. Registration form for donor:-

Organizer will provide time slots for donor and how many donors can register for associated slot.

8. Participants per time slot:-

- Event manager decides how many will come for donation at specified time slot.
- Typical way of time slots sometimes leads to cause rush at one certain time slot
- To overcome this, we are adding feature where, if specified number of participants registered for that slot, the time slot will be disabled automatically.
- With this organizer can manage rush and donors do not have to wait.

9. Eligibility window: -

Many are unaware of the eligibility criteria to donate. This window will be there in registration form. Before you fill the form confirm your eligibility then proceed.

10.Check status of your camp:-

Here organizer can check out whether his request of organizing event is approved, rejected or still pending. Pending status means camp is yet to be checked.

11.Admin verification:-

Whenever organizer request for setting up the campaign, it will be examined by admin whether campaign is genuine or not. And then Admin will decide whether to approve or reject the pending request.

12.Admin deactivates the campaign:-

The expired campaigns should be removed from website. Admin can deactivate those expired camps.

1.5) Applicability

- Any organizer who wishes to organize blood donation campaign can do it.
- In hospitals, when in extreme shortage of blood. They can conduct a blood donation drive.
- On College level clubs like Rotary, N.S.S can use it to organize campaigns.
- In locality, on some occasion can organize such events, where it will be helpful.
- On special occasions (Birthdays, anniversaries) can set campaigns.

1.6) Achievements

The system is successfully implemented using PHP and MySQL as the backend, which provides a great scalability option.

While working on the project, I got acquainted with coding, problem solving. We learned new languages and logic building skill developed. Project building developed the self confidence in me and improved my error solving ability.

Objectives laid down were achieved.

1.7) Organization of reports

- In chapter 2 we will know what expectations of user from such system and technologies used to build the project.
- Chapter 3 consists of, planning of project and several diagrams that will simplify technical details.
- Chapter 4 will tell us about the designs for the system.
- Testing approaches and test cases etc. that are carried out are explained in Chapter 5.
- Chapter 6 talks about the actual outcome of the test cases and whether the test cases have passed and failed to give a good idea about the project's success.
- In chapter 7, conclusion is given with opportunities for improvements with existing limitations and what sources we have used as aid during the development.

CHAPTER 2:

SURVEY OF TECHNOLOGY

2.1) Survey of technology

2.1.1) Front end

Front end development is development of graphical user interface through which user can interacts with website. It is basically what we see on the screen, external end of the site to interact with that website for service. Following programming languages can be used to bulid BDC Organizer website.

1. HTML,CSS and JavaScript

When we talk about Frontend Development, there always comes these names comes first- HTML, CSS and JavaScript

HTML: HTML5 is the latest iteration of HTML addressing modern needs and expectations of websites. Its Mark up language. HTML5 is becoming a new standard. It is very rapidly becoming a standard. Developers want to use HTML5 which in return makes it all the more popular. Modern browsers all support HTML5 allowing developers to use all the new features it offers in order to create more dynamic end results.

HTML5 is faster and cheaper and reduces development time. By focusing on latest browsers and not being held up on old ones developers can focus on writing functionalities that work, look good, while using latest tools. HTML5 supports mobile devices .HTML5 is mobile friendly.

Advantages:

- Simple to Use
- Ability to Integrate with other languages
- Multiple Browser Support

Disadvantages:

- It cannot produce dynamic output alone, since it's a static language.
- Making the structure of HTML documents becomes tough to understand.
- Errors can be costly.
- It is time-consuming as the time it consumes to maintain the colour scheme of a page and to make lists, tables, and forms

CSS: Style sheets describe how documents are represented on screen and in print, CSS stands for Cascading Style sheets. CSS is language that describes the style of an HTML document. It describes style of HTML document and how it should be displayed.

Cascading Style Sheets provides easy and effective alternatives to specify various attributes for the HTML tags. Using CSS, you can specify number of style properties for given HTML document. Each property has name and value, separated by colon (:). Each property declaration is separated by semi colon (;). All browsers supports CSS today.

Advantages:

- The main advantage of CSS is that style is applied consistently across a variety of sites. One instruction can control several areas which are advantageous.
- Speed and Easy to Use
- Multiple Browser Support

Disadvantages:

- There exists a scarcity of security.
- After making the changes we need to confirm the compatibility if they appear. A similar change affects all the browsers.

JavaScript: JavaScript gives you the freedom to add interactivity and responsiveness to your web pages. JavaScript is a scripting language that is a lightweight programming language interpreted by the browser engine when the web page is loaded.

JavaScript is a web programming language, a language that enables the designer of a website, to control how a web page behaves. This makes JavaScript crucially different from HTML, the language that gives structure to web documents, and CSS, the language that controls the appearance of web pages.

JavaScript is an open language that anyone can use without purchasing a license. JavaScript and Java are not the same. Java (developed by Sun Microsystems) is a powerful and much more complex programming language in the same category as C and C++. JavaScript was created by Brendan Eich at Netscape and was first introduced in December 1995 under the name of LiveScript. However, it was renamed to JavaScript, although JavaScript's official name is ECMAScript, which is developed and maintained by the ECMA (European Computer Manufacturer's Association) International organization.

Advantages:

- Speed
- Simplicity
- Extended Functionality

Disadvantages:

- The main problem or disadvantage in JavaScript is that the code is always visible to everyone anyone can view JavaScript code.
- This may be difficult to develop large applications, although you'll also use the TypeScript overlay.

2. React

This development language is JavaScript library (User Interface library) created by Facebook. React is ideal to build UI components. Website which are built with react are fast and can smoothly switch between different elements.

Allowing user to create dynamic pages. If user experience is top priority is then you can consider React through user friendly elements. It's simple to use and also compatible with most back end setups. Design layout of the page can be split into separate elements and components with piece of code and it allows to edit and design separate parts.

Advantages

- Simple to use
- Time consuming
- Open source to Community

Disadvantages

- SEO Difficulty
- Slow Language Development

3. SASS

Equally popular language for front end language SASS. It stands for Syntactically Awesome Style Sheets. It is a scripting language similar to CSS. SASS offers benefits of variables, nestles rules, mixins, and other features for smoother experience.

Able to used by most operating systems. As it is compatible with Mac, Windows or even Linux. Speed and complicity it offers has made this language first choice for many web developers. The site becomes easier to maintain as these style sheets development is easy.

Advantages:

- Reusable Features
- Extensive Frameworks
- Clear Code

Disadvantages:

- A New Method of Coding
- Difficulty Troubleshooting
- Code Has To Be Complied

4. Bootstrap

Bootstrap, originally named Twitter Blueprint, was developed by Mark Otto and Jacob Thornton at Twitter as a framework to encourage consistency across internal tools. Before Bootstrap, various libraries were used for interface development, which led to inconsistencies and a high maintenance burden.

It was renamed from Twitter Blueprint to Bootstrap and released as an open-source project on August 19, 2011.

Bootstrap is a free front-end framework for faster and easier web development

Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins

Bootstrap also gives you the ability to easily create responsive designs.

Advantages:

- Easy initiation
- Responsiveness
- Highly customizable
- Extremely user-centric
- Top-notch support

Disadvantages:

- Has a learning curve
- Can be heavy

5. jQuery

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code. jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

Many of the biggest companies on the Web use jQuery, such as: Google Microsoft IBM Netflix

Advantages:

- Ease of use
- Large library
- Strong open source community

Disadvantages:

- jQuery JavaScript file required
- Functionality may be limited

Conclusion:

We use HTML, CSS, JavaScript, Bootstrap, jQuery.

HTML, CSS, and JavaScript are at the heart of Front End development.

Purpose of jQuery is to make it much easier to use JavaScript website

Bootstrap is a free front-end framework for faster and easier web development.

2.2.2) Back end

We primarily require a backend (or server-side) programming language to make the website function along with various other tools & technologies such as databases, frameworks, web servers, etc.

It is responsible for storing and organizing data and ensuring everything on client-side actually works. Back-end is the most focused on site's responsiveness and speed.

1. Python

Python is quite famous for its compatibility with advanced technologies like Machine Learning, Internet of Things (IoT), Data Science, etc. It's also enriching programming language widely used and very much suitable for backend web development also.

Even one of the leading IT giants of the current times Google significantly relies on Python, and it is one of the 3 primary languages used by Google (the other two are Java and C++). One of the major advantages of using Python for web development is its huge collection of standard libraries that make the work of developers comparatively easier and efficient. The additional prominent and unique features of Python such as better code readability. Easier integration with other languages, GUI Programming support, portability, and numerous others makes it a more preferred language among web developers. Python Frameworks for Backend Web Development: Django, Flask, Pyramid, etc. Websites using Python: Spotify, Pinterest etc.

Advantages:

- Presence of third party module
- Extensive support libraries
- Open source and community development

Disadvantages:

- Not memory efficient
- Slow speed
- Weak in mobile computing

2. Java

Java is another exemplary programming language for backend web development. The object-oriented programming language is widely used for developing enterprise-scale web applications along with development android applications, desktop applications, scientific applications, etc. The primary advantage of using Java is that it works on the Write Once Run Anywhere principle i.e. the compiled Java code can be executed on any platform that supports Java without the need for recompilation. In more specific terms, the Java code is first compiled into byte code which is machine-independent and then this byte code runs on the JVM regardless of the underlying architecture. Besides, Java supports multithreading that allows the concurrent execution of two or more threads for maximum utilization of CPU. Other additional features of Java are – platform-independent, follows the OOP concepts, rich open-source libraries, automatic memory

allocation & garbage collection, portability, etc. Java Frameworks for Backend Web Development: Spring, Struts, Grails. Websites using Java: LinkedIn, Yahoo etc.

Advantages:

- Java is simple and easy to learn.
- It is secured language as it do not use exploit pointers.
- Platform independent

Disadvantages:

- Memory consumption
- Less machine interactive

3. PHP

PHP (or you can say Hypertext Preprocessor) is a veteran player in the web development world. This open-source server-side scripting language is created in 1994 and is specifically used for web development. As it is an interpreted language – it doesn't require a compiler either and also it can run on almost every major operating system like Windows, Linux, macOS, Unix, etc. It's a dynamic, server-side scripting language that makes it really easy to create fully functional web applications. If that's not enough, half of the internet is running on PHP's shoulder, the most popular web application software Wordpress is made on PHP. PHP also has frameworks like Laravel, which is both powerful and allows you to swiftly create web applications using a model–view–controller architectural pattern

PHP Frameworks for

Backend Web Development: Laravel, CodeIgniter, Symfony, etc. Websites using PHP: WordPress, MailChimp etc.

Advantages:

- Easy to learn nature
- Cross-platform compatibility
- OOPs features
- Supports various databases like MySQL ,SQLiite
- Community support
- Secured

Disadvantages:

- A limited set of tools and libraries
- Massive file size
- Weak iOS features support

Conclusion:

We use PHP as our back-end language.

It is platform-independent. PHP-based applications can run on any OS like UNIX, Linux, Windows, etc.

The application can easily be loaded which is based on PHP and connected to the database. It's mainly used due to its faster rate of loading over slow internet speed than another programming language.

2.3.3) Database

1. MySQL

MySQL is the world's most popular open source database. With its proven performance, reliability and ease-of-use, MySQL has become the leading database choice for web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, Yahoo! and many more. Oracle drives MySQL innovation, delivering new capabilities to power next generation web, cloud, mobile and embedded applications.

Advantages:

- Portability
- Seamless connectivity
- Data security
- Rapid development and round the clock uptime
- The reduced total cost of ownership

Disadvantages:

- MySQL lower version (5.0 or less) doesn't support ROLE, COMMIT and stored procedures.

- MySQL does not support a very large database size as efficiently.
- MySQL doesn't handle transactions very efficiently and it is prone to data corruption.
- MySQL doesn't have a good developing and debugging tool compared to other databases.
- MySQL doesn't support SQL check constraints.

2. IBM Db2

IBM Db2 is a family of data management products, including the Db2 relational database. The products feature AI-powered capabilities to help modernize the management of both structured and unstructured data across on-premises and multicloud environments. By helping to make data simple and accessible, the Db2 family aims to position businesses to pursue the value of AI. Most of the Db2 family is available on the IBM Cloud Pak® for Data platform, either as an add-on or an included data source service, making virtually all data available across hybrid or multicloud environments to fuel AI applications. To support the user's agility Db2 can be run on any cloud vendor.

Advantages:

- Robust Relational database
- High Scalability
- High Performance

Disadvantages:

- Data recovery and back-ups can be complex to new users.
- Only runs and scales well on IBM power-based platforms..
- It's costing is too high.

Conclusion:

We are using MySQL database to store the all data of campaigns and donors.

The flexibility of open source: All the fears and worries that arise in an open-source solution can be brought to an end with support.

High performance: MySQL features a distinct storage-engine framework that facilitates system administrators to configure the MySQL database server for flawless performance.

2.2) SURVEY QUESTIONS

2.2.1) Survey

Blood Campaign Organizer

Form description

1) Are you aware of the blood banks around you? *

Yes

No

2) Are you aware about the eligibility criteria for donating blood? *

Yes

No

3) Would you like an option to chat with the organizer regarding an event? *

- Yes
- No

4) Does a less qualified nurse bother you while donating blood? *

- Yes
- No

5) Which method of registration would you prefer for blood donation? *

- Google Forms
- Website Registration

6) Have you been advised by any doctor to not donate blood at a camp(for some reason)? *

- Yes
- No

7) Have you ever faced any problem finding blood? *

- Yes
- No

8) Do crowded and unhygienic donation centers bother you while donating blood? *

- Yes
- No

9) Have you ever faced difficulties to contact an organizer for a blood donation camp? *

- Yes
- No

10) Have you ever waited for too long to donate blood because of rush in donation center? *

- Yes
- No

11) In which mode would you like to receive notifications for our upcoming events? *

- Via Emails
- Via SMS

12) As a participant, in which way would you prefer to know details about the event? *

- On a notice board at the place of the event
- On a Website

13) As a participant in which way would you like to know exact location of the event? *

- Through a Google map link to the venue
- Through a Location given on the website

2.2) Survey Responses

Response 1:-

1) Are you aware of the blood banks around you? *

Yes

No

2) Are you aware about the eligibility criteria for donating blood? *

Yes

No

3) Would you like an option to chat with the organizer regarding an event? *

Yes

No

4) Does a less qualified nurse bother you while donating blood? *

Yes

No

5) Which method of registration would you prefer for blood donation? *

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11) In which mode would you like to receive notifications for our upcoming events? *

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Via SMS

12) As a participant, in which way would you prefer to know details about the event? *

On a notice board at the place of the event

On a Website

13) As a participant in which way would you like to know exact location of the event? *

Through a Google map link to the venue

Through a Location given on the website

Response 2:-

1) Are you aware of the blood banks around you? *

Yes

No

2) Are you aware about the eligibility criteria for donating blood? *

Yes

No

3) Would you like an option to chat with the organizer regarding an event? *

Yes

No

4) Does a less qualified nurse bother you while donating blood? *

Yes

No

5) Which method of registration would you prefer for blood donation? *

- Google Forms
- Website Registration

6) Have you been advised by any doctor to not donate blood at a camp(for some reason)? *

- Yes
- No

7) Have you ever faced any problem finding blood? *

- Yes
- No

8) Do crowded and unhygienic donation centers bother you while donating blood? *

- Yes
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Yes

No

10) Have you ever waited for too long to donate blood because of rush in donation center? *

Yes

No

11) In which mode would you like to receive notifications for our upcoming events? *

Via Emails

Via SMS

12) As a participant, in which way would you prefer to know details about the event? *

On a notice board at the place of the event

On a Website

13) As a participant in which way would you like to know exact location of the event? *

Through a Google map link to the venue

Through a Location given on the website

Response 3:-

1) Are you aware of the blood banks around you? *

- Yes
 No

2) Are you aware about the eligibility criteria for donating blood? *

- Yes
 No

3) Would you like an option to chat with the organizer regarding an event? *

- Yes
 No

4) Does a less qualified nurse bother you while donating blood? *

- Yes
 No

5) Which method of registration would you prefer for blood donation? *

- Google Forms
- Website Registration

6) Have you been advised by any doctor to not donate blood at a camp(for some reason)? *

- Yes
- No

7) Have you ever faced any problem finding blood? *

- Yes
- No

8) Do crowded and unhygienic donation centers bother you while donating blood? *

- Yes
- No

9) Have you ever faced difficulties to contact an organizer for a blood donation camp? *

Yes

No

10) Have you ever waited for too long to donate blood because of rush in donation center? *

Yes

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On a Website

13) As a participant in which way would you like to know exact location of the event? *

Through a Google map link to the venue

Through a Location given on the website

Response 4:-

1) Are you aware of the blood banks around you? *

- Yes
 No

2) Are you aware about the eligibility criteria for donating blood? *

- Yes
 No

3) Would you like an option to chat with the organizer regarding an event? *

- Yes
 No

4) Does a less qualified nurse bother you while donating blood? *

- Yes
 No

5) Which method of registration would you prefer for blood donation? *

- Google Forms
- Website Registration

6) Have you been advised by any doctor to not donate blood at a camp(for some reason)? *

- Yes
- No

7) Have you ever faced any problem finding blood? *

- Yes
- No

8) Do crowded and unhygienic donation centers bother you while donating blood? *

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9) Have you ever faced difficulties to contact an organizer for a blood donation camp? *

Yes

No

10) Have you ever waited for too long to donate blood because of rush in donation center? *

Yes

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11) In which mode would you like to receive notifications for our upcoming events? *

Via Emails

Via SMS

12) As a participant, in which way would you prefer to know details about the event? *

On a notice board at the place of the event

On a Website

13) As a participant in which way would you like to know exact location of the event? *

Through a Google map link to the venue

Through a Location given on the website

Response 5:-

1) Are you aware of the blood banks around you? *

- Yes
 No

2) Are you aware about the eligibility criteria for donating blood? *

- Yes
 No

3) Would you like an option to chat with the organizer regarding an event? *

- Yes
 No

4) Does a less qualified nurse bother you while donating blood? *

- Yes
 No

5) Which method of registration would you prefer for blood donation? *

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- Website Registration

6) Have you been advised by any doctor to not donate blood at a camp(for some reason)? *

- Yes
- No

7) Have you ever faced any problem finding blood? *

- Yes
- No

8) Do crowded and unhygienic donation centers bother you while donating blood? *

- Yes
- No

9) Have you ever faced difficulties to contact an organizer for a blood donation camp? *

Yes

No

10) Have you ever waited for too long to donate blood because of rush in donation center? *

Yes

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11) In which mode would you like to receive notifications for our upcoming events? *

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12) As a participant, in which way would you prefer to know details about the event? *

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On a Website

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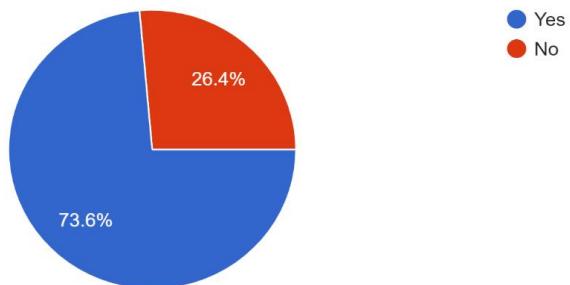
Through a Google map link to the venue

Through a Location given on the website

2.3) Statistical Diagrams:

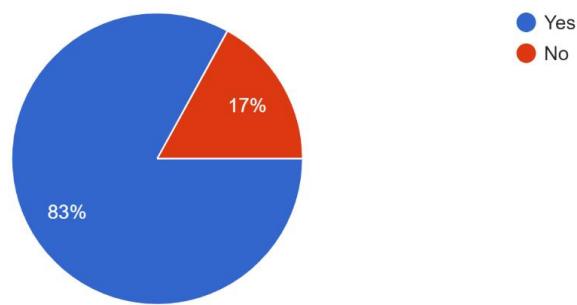
1) Are you aware of the blood banks around you?

53 responses



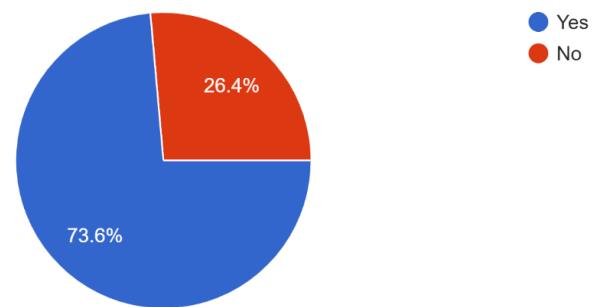
2) Are you aware about the eligibility criteria for donating blood?

53 responses



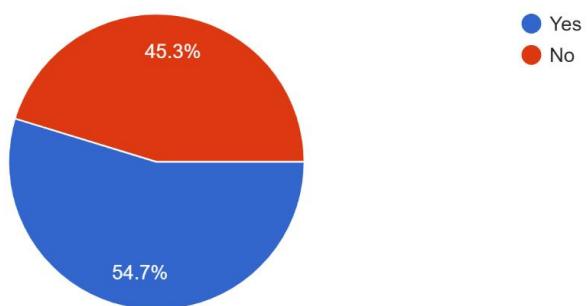
3) Would you like an option to chat with the organizer regarding an event?

53 responses



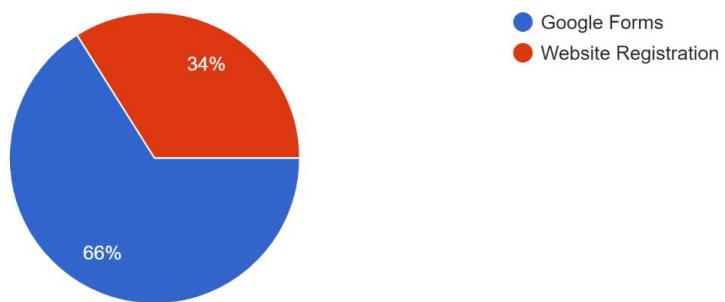
4) Does a less qualified nurse bother you while donating blood?

53 responses



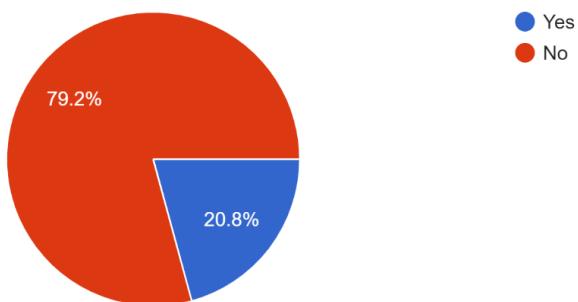
5) Which method of registration would you prefer for blood donation?

53 responses



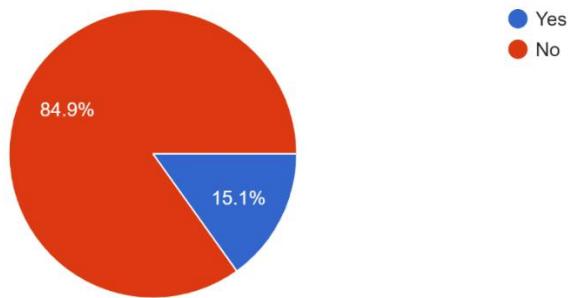
6) Have you been advised by any doctor to not donate blood at a camp(for some reason)?

53 responses



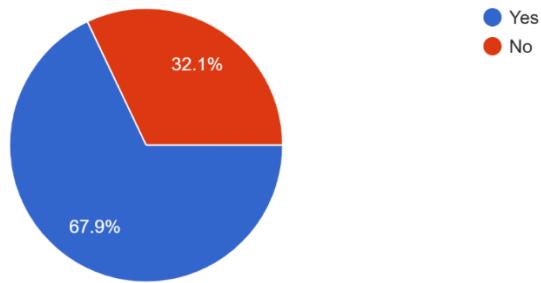
7) Have you ever faced any problem finding blood?

53 responses



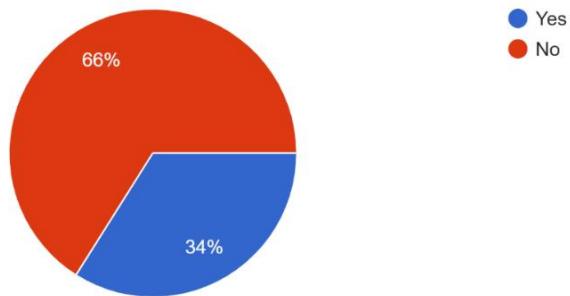
8) Do crowded and unhygienic donation centers bother you while donating blood?

53 responses



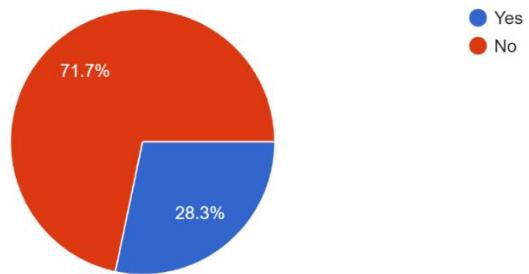
9) Have you ever faced difficulties to contact an organizer for a blood donation camp?

53 responses



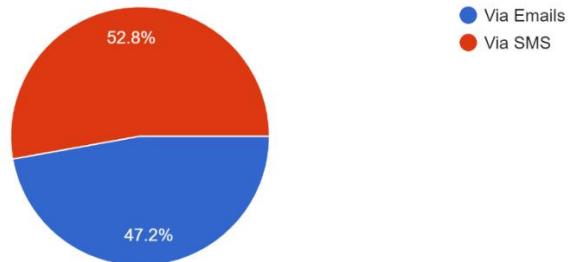
10) Have you ever waited for too long to donate blood because of rush in donation center?

53 responses



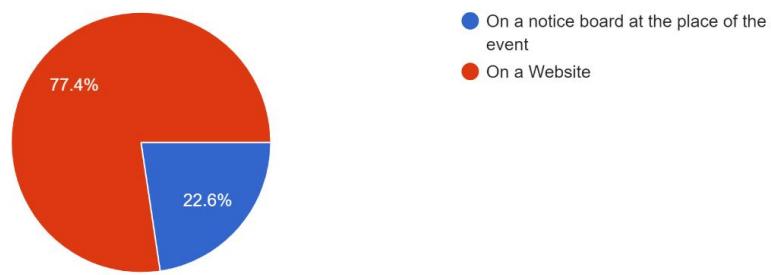
11) In which mode would you like to receive notifications for our upcoming events?

53 responses



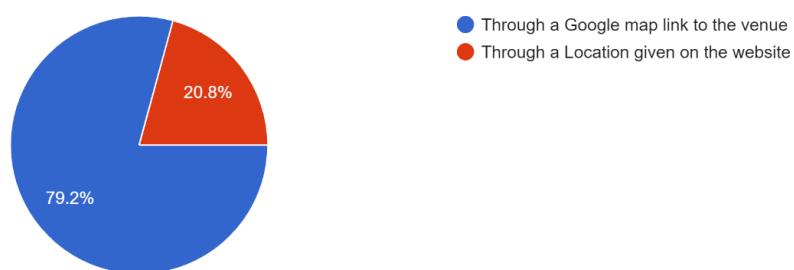
12) As a participant, in which way would you prefer to know details about the event?

53 responses



13) As a participant in which way would you like to know exact location of the event?

53 responses



2.4) Survey results:

- 1) **77.4%** people would **prefer** to know the **details of the event on the website.**
- 2) **79.2%** people would prefer a **Google maps link for the venue.**
- 3) **34%** people have **faced difficulties to contact a camp organizer.**
- 4) **83% people are aware about the eligibility criteria** for donating blood and **17% are unaware** about it.
- 5) **20.8%** people have been **advised** by their doctors **to not donate blood.**
- 6) We asked people if they would like the option to chat with the organizer regarding an event and **73.6% people liked** the idea about the **option to chat with the organizer** while the rest thought otherwise.
- 7) **28.3%** people had **a wait time** due to the crowd at the camp for blood donation.
- 8) Out of the **53 people 35** people consider Google forms for registration and the remaining **18% prefer website registration.**
- 9) **47.2%** would like to **get notifications** about the upcoming events **via E-mails**
- 10) **57.4% people** are bothered if a **less qualified nurse attends** them while donating blood.
- 11) **15.1% people face difficulties to find blood** when needed.
- 12) **Majority of people** are bothered by **unhygienic or crowded places** for blood donation.
- 13) Out of the 53 responses **39 people are aware** about the blood banks near their area while the remaining **14 people are unaware.**

CHAPTER 3:

REQUIREMENT AND ANALYSIS

3.1) Problem definition

Conventional way of organizing campaign is tedious, lengthy, time-consuming process. From making posters to create Google form for registration of donors and then circulate the form. For further instructions, updates adding donors in WhatsApp groups by the timeslot they have preferred.

There are certain limitations in Google forms, some points we explained below:-

- If somebody mistakenly entered wrong details, to correct it they resubmit the form, It leads to problem and confusion for organizer. Arises issue of misleading count of donors.
- In G-forms when asked to choose time slot, sometimes happen that majority of participants choose one or another slot. Causing donors to wait too long and rush at centre.
- There are G-forms of expired campaigns which are still accepting inputs.

To overcome this, we adding feature where specified number of participants registered for the slot it will be disabled automatically. On our website, organizer can edit the donor details and even can remove the donor. Admin can deactivate the expired campaigns.

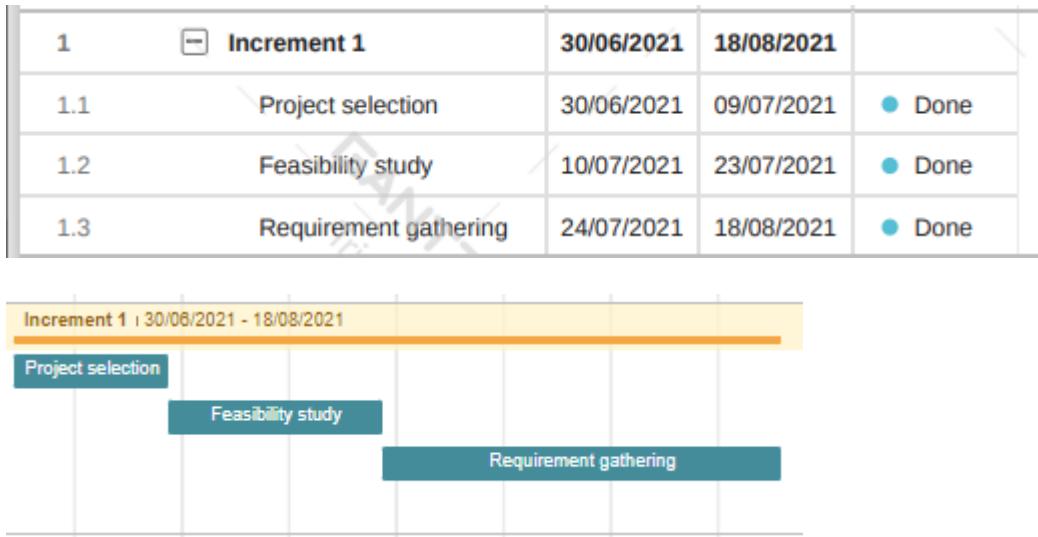
We have built our website to ease this campaign process. All necessary features we have added in website such as displaying list of donors registered for campaign, updating/removing donor, announcements section, reminding every participants by sending them Email. Website will reduce the work and surely will save the time of organizer.

3.2) Planning and Scheduling

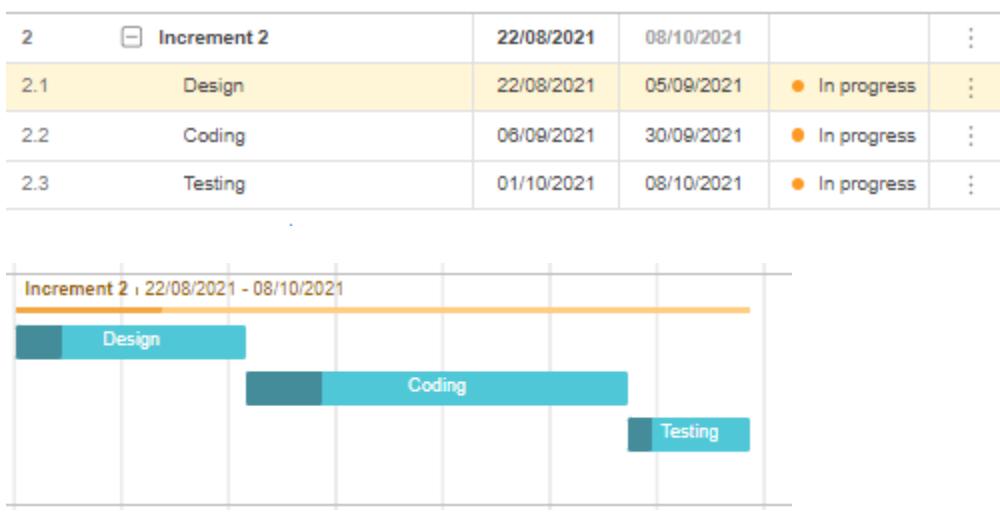
3.2.1) Gantt chart

A Gantt chart is a type of bar chart that illustrates a project schedule, named after its popularizer, Henry Gantt, who designed such a chart around the years 1910–1915. Modern Gantt charts also show the dependency relationships between activities and the current schedule status.

Increment 1:

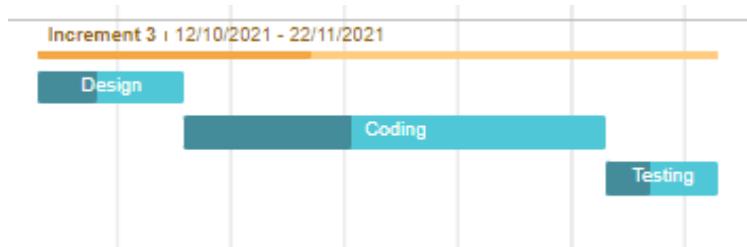


Increment 2:



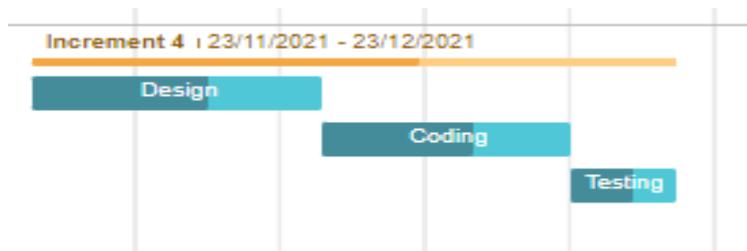
Increment 3:

3	⊖ Increment 3	12/10/2021	22/11/2021		
3.1	Design	12/10/2021	20/10/2021	● In progress	⋮
3.2	Coding	21/10/2021	15/11/2021	● In progress	⋮
3.3	Testing	16/11/2021	22/11/2021	● In progress	⋮



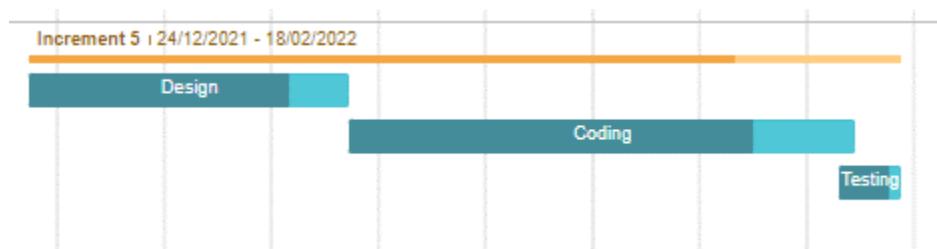
Increment 4:

4	⊖ Increment 4	23/11/2021	23/12/2021		⋮
4.1	Design	23/11/2021	06/12/2021	● In progress	⋮
4.2	Coding	07/12/2021	18/12/2021	● In progress	⋮
4.3	Testing	19/12/2021	23/12/2021	● In progress	⋮



Increment 5:

5	⊖ Increment 5	24/12/2021	18/02/2022		⋮
5.1	Design	24/12/2021	13/01/2022	● In progress	⋮
5.2	Coding	14/01/2022	15/02/2022	● In progress	⋮
5.3	Testing	15/02/2022	18/02/2022	● In progress	⋮



Increment 6:

6	⊖ Increment 6	19/02/2022	10/03/2022		⋮
6.1	Design	19/02/2022	23/02/2022	● Done	⋮
6.2	Coding	23/02/2022	07/03/2022	● Done	⋮
6.3	Testing	07/03/2022	10/03/2022	● Done	⋮

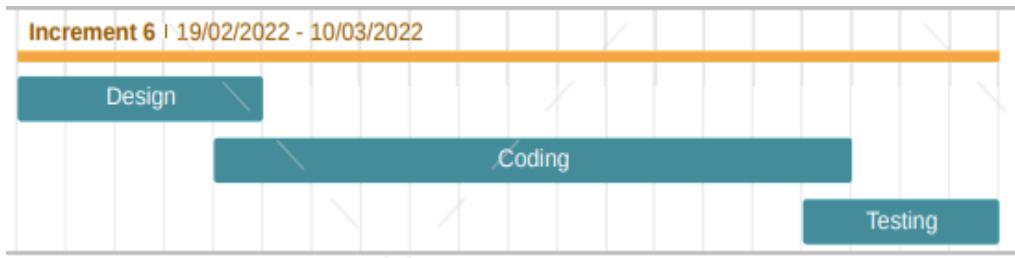


Figure no. 3.2.1, Figure name: Gantt chart

3.2.2) Pert Diagram:

A PERT chart is a project management tool that provides a graphical representation of a project's timeline. The Program Evaluation Review Technique (PERT) breaks down the individual tasks of a project for analysis.

A PERT uses circles or rectangles called nodes to represent project events or milestones. These nodes are linked by vectors, or lines that represent various task. It allows managers to evaluate the time and resources necessary to manage a project.

The 3 points of estimates are as below:

Optimistic estimate (a) - Estimate when all favourable things will happen (all opportunities take place and no threat take place)

Pessimistic estimate (b) – Estimate when all unfavourable conditions happen (all threats happen and no opportunities take place)

Most likely estimate (m) – Estimate when both favourable and unfavourable conditions will happen.

(Expected duration) $te = (a+4m+b) / 6$

(Standard deviation) $s = (b - a) / 6$

Denotion	Activity	Precedents	(In Weeks)				
			a	m	b	te	s
Feasibility Study	A	-	5.2	5.3	6	5.4	0.134
Requirement Gathering	B	A	5	5.2	6	5.3	0.167
Designing	C	B	5	4.4	6	4.76	0.167
Coding	D	C	8	8	9	8.176	0.167
Testing	E	D	2	2.3	3	2.366	0.167

Table no. 3.2.1, Table name: Pert Table

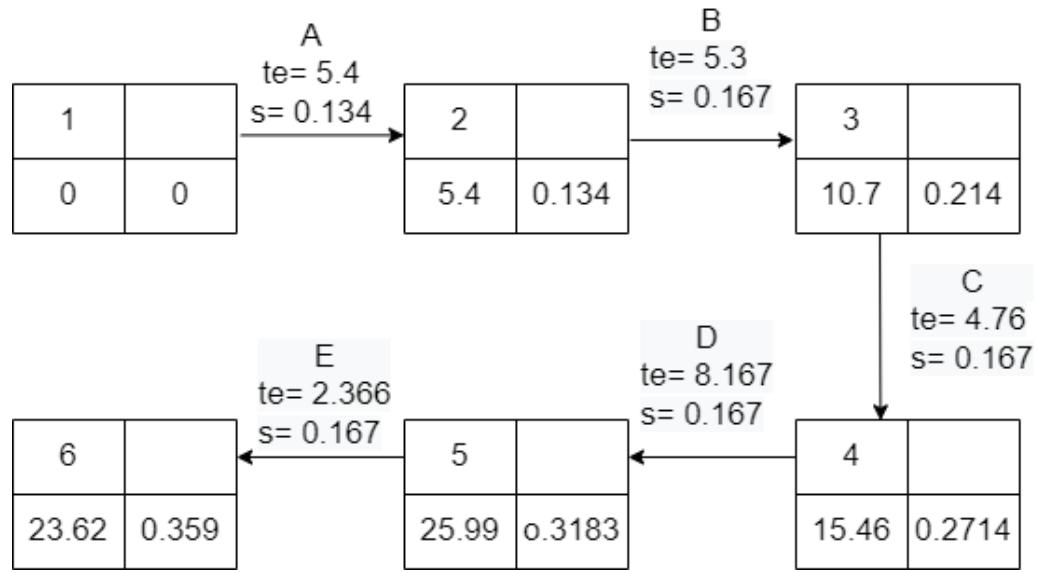


Figure no. 3.2.2, Figure name: Pert chart

3.3) hardware and Software specification

Hardware Requirements

- 64 bit Operating System
- 500 MB free run time memory
- Recommended 4 GB of RAM

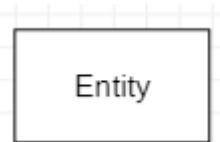
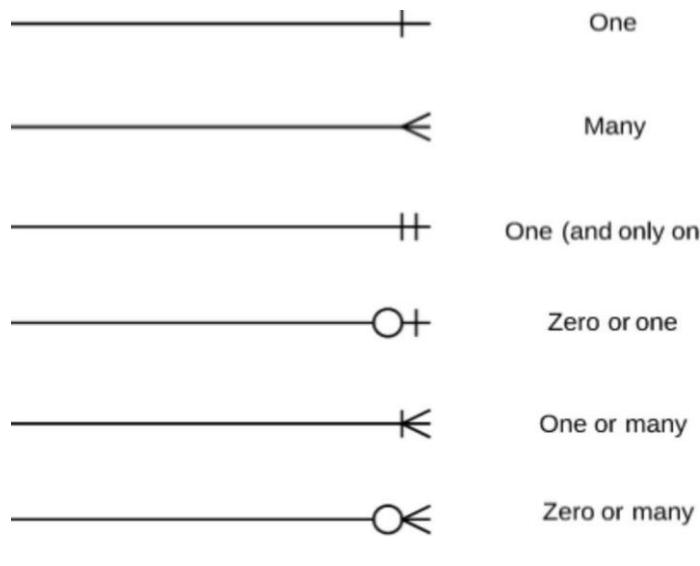
Software Requirements

- Visual Studio Code
- Xampp server
- HTML 5
- CSS
- JavaScript
- Bootstrap
- jQuery 3.6
- PHP 7.4

3.4) Conceptual model

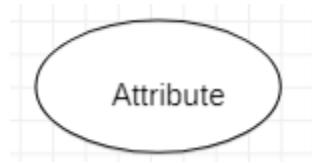
3.4.1) Entity-Relationship Diagram

- A graphical model of the data needed by a system, including things about which information is stored and the relationships among them, produced in structured analysis and information engineering.
- The traditional approach to system development places a great deal of emphasis on data storage requirements for the new system.
- Data storage requirements include the data entities, their attributes and the relationships among the data entities.
- The model used to define the data storage requirements is called the entity relationship diagram (ERD)



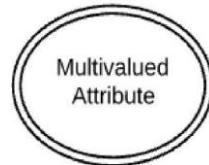
1. Entity

An entity is an object or an object in ER diagram. And represented as rectangle.



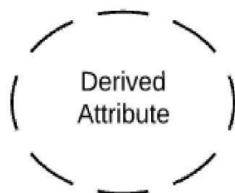
2. Attribute :

Attributes are characteristics of an entity, a many-to-many relationship, or a one-to one relationship.



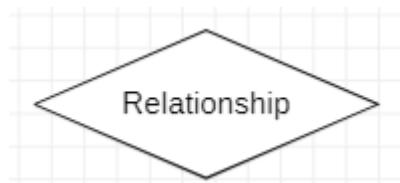
3. Multivalued attribute :

Multivalued attributes are those that can take on more than one value.



4. Derived attribute:

Derived attributes are attributes whose value can be calculated from related attribute values.



5. Relationship :

Relationships are associations between or among entities

Entity relationship diagram

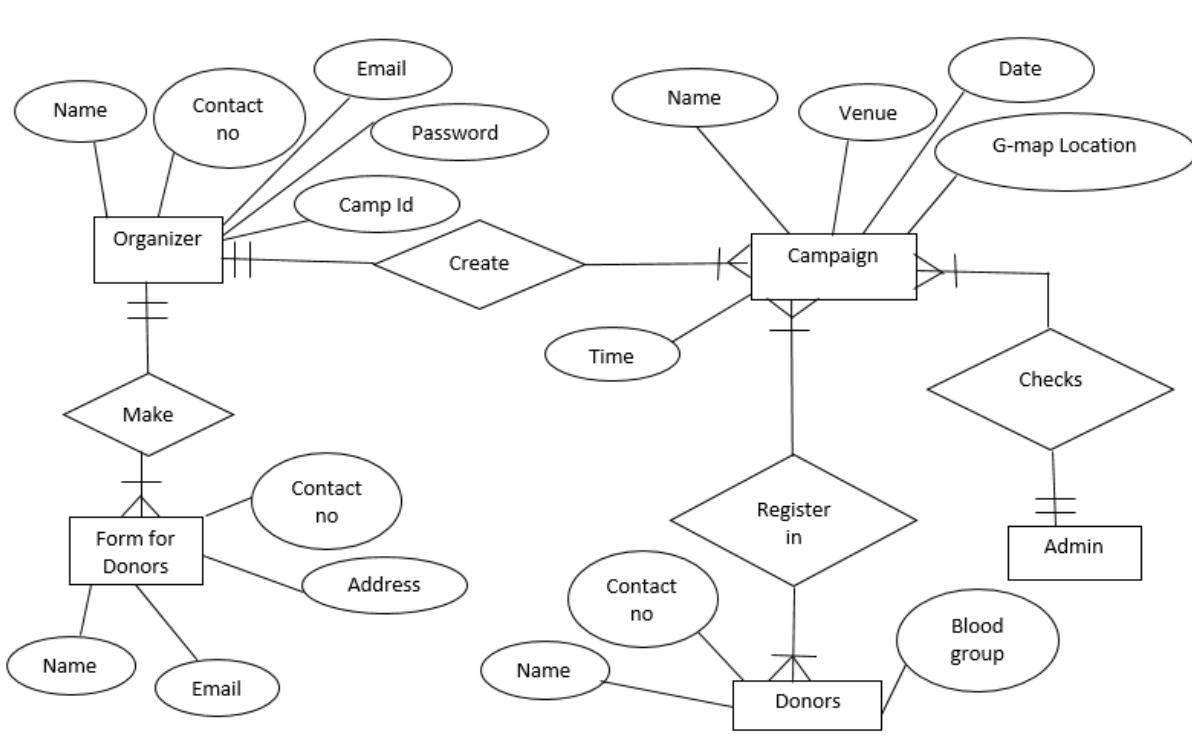


Figure no. 3.4.1, Figure name: ER Diagram

3.4.2) Use - Case Diagram

- A use case diagram is a set of scenarios that describe the interaction between a user and a system.
- They prove helpful in exposing requirements and planning the project and specify the user goals system must carry out.
- In software and systems engineering, a use case is a list of steps, typically defining interactions between a role (known in UML as an "actor") and a system, to achieve a goal. The actor can be a human or an external system.
- In systems engineering, use cases are used at a higher level than within software engineering.



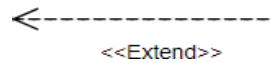
1. Actor

You can picture an actor as a user of the IT system, for example Mr. Steel or Mrs. Smith from check-in. Because individual persons are irrelevant for the model, they are Abstracted. So the actors are called “check-In employee” or “passenger”.

Actors represent roles that users take on when they use the IT system, e.g., the role of a check-in employee. One person can act in more than one role toward the IT system. It is important for the IT system in which role a person is acting. Therefore, it is necessary to log on to many IT systems in a certain role, for instance, as a normal user or as an administrator. In each case access to the appropriate functionalities (use cases) is granted. Actors themselves are not part of the IT system. However, as employees they can be part of the business system.

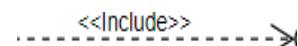
2. Association

An association is a connection between an actor and a use case. An association indicates that an actor can carry out a use case. Several actors at one use case mean that each actor can carry out the use case on his or her own and not that the actors carry out the use case together.



3. Extend

Extend is a directed relationship that specifies how and when the behavior defined in usually supplementary (optional) extending use case can be inserted into the behavior defined in the extended use case. Extended use case is meaningful on its own, it is independent of the extending use case. Extending use cases typically defines optional behavior that is not necessarily meaningful by itself. The extended relationship is owned by the extending use case. The same extending use case can extend more than one use case, and extending use case may itself be extended. The extension takes place at one or more extension points defined in the extended use case. Extend relationship is shown as a dashed line with an open arrowhead directed from the extending use case to the extended (base) use case. The arrow is labeled with the keyword «extend».



4. Include

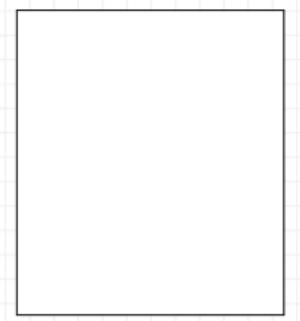
It indicates that the use case to which the arrow points is included in the use case on the other side of the arrow. This makes it possible to reuse a use case in another use case. In the flow of the use case, express check-in is a point at which the use case generating boarding pass is included. This means that at this point the entire process generating the boarding pass is carried out.



5. Use-Case

Use cases describe the interactions that take place between actors and IT systems

during the execution of Business processes.



6. System boundary boxes:

A box that sets a system scope to use cases. All use cases outside the box would be considered outside the scope of that system. For example, Psycho Killer is outside the scope of occupations in the chainsaw example found below.

Use-case Diagram

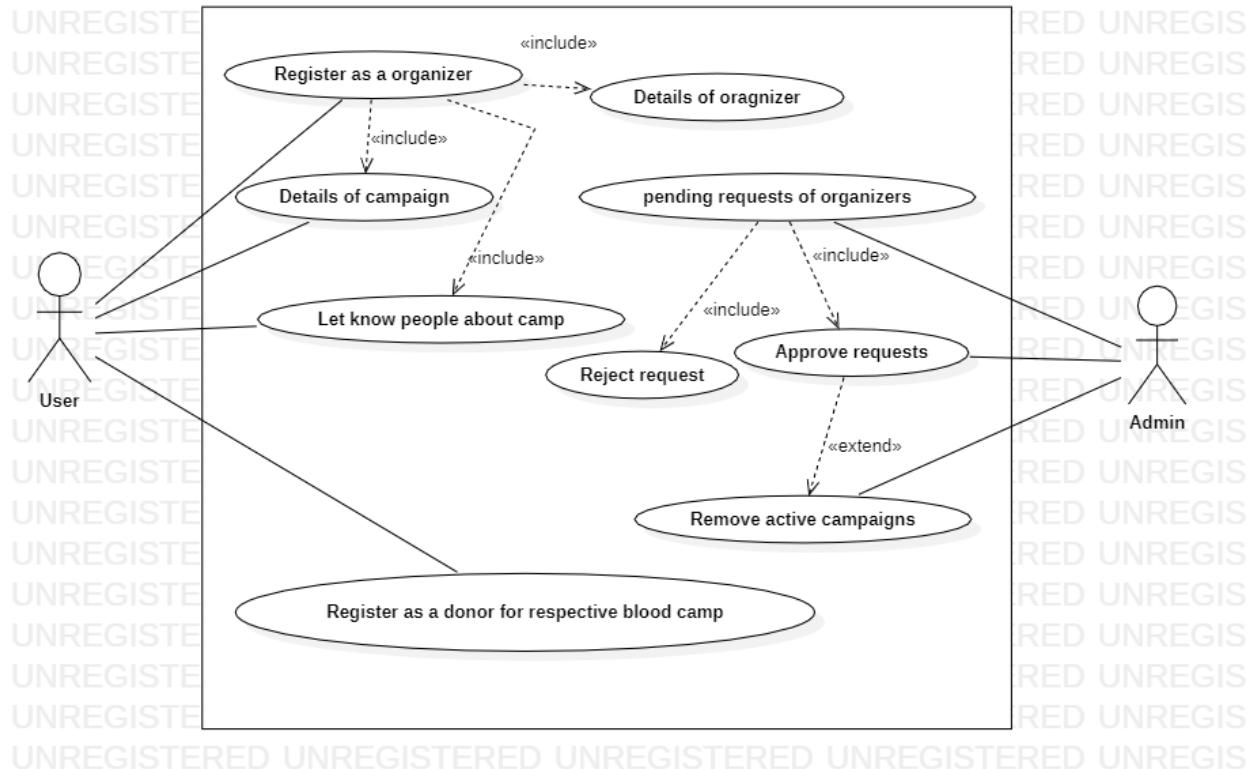


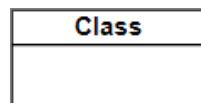
Figure no. 3.4.2, Figure name: Use case diagram

3.4.3) CLASS DIAGRAM

- Class diagram is a static diagram and it is used to model the static view of a system. The static view describes the vocabulary of the system.
- Class diagrams are also considered as the foundation for component and deployment diagrams. Class diagrams are not only used to visualize the static view of the system but they are also used to construct the executable code for forward and reverse engineering of any system.
- Generally, UML diagrams are not directly mapped with any object-oriented programming languages but the class diagram is an exception.
- Class diagram clearly shows the mapping with object-oriented languages such as Java, C++, etc. From practical experience, class diagrams are generally used for construction purposes.
- In a nutshell it can be said, class diagrams are used for –
 - Describing the static view of the system.
 - Showing the collaboration among the elements of the static view.
 - Describing the functionalities performed by the system.
 - Construction of software applications using object oriented languages.

1. Association

Associations represent static relationships between classes. Place association names above, on, or below the association line. Use a filled arrow to indicate the direction of the relationship. Place roles near the end of an association. Roles represent the way the two classes see each other.



2. Class

Classes represent an abstraction of entities with common characteristics. Associations represent the relationships between classes. Illustrate classes with rectangles divided into

compartments. Place the name of the class in the first partition, list the attributes in the second partition, and write operations into the third.



3. Generalization

Generalization is another name for inheritance or an "is a" relationship. It refers to a relationship between two classes where one class is a specialized version of another.

Class diagram

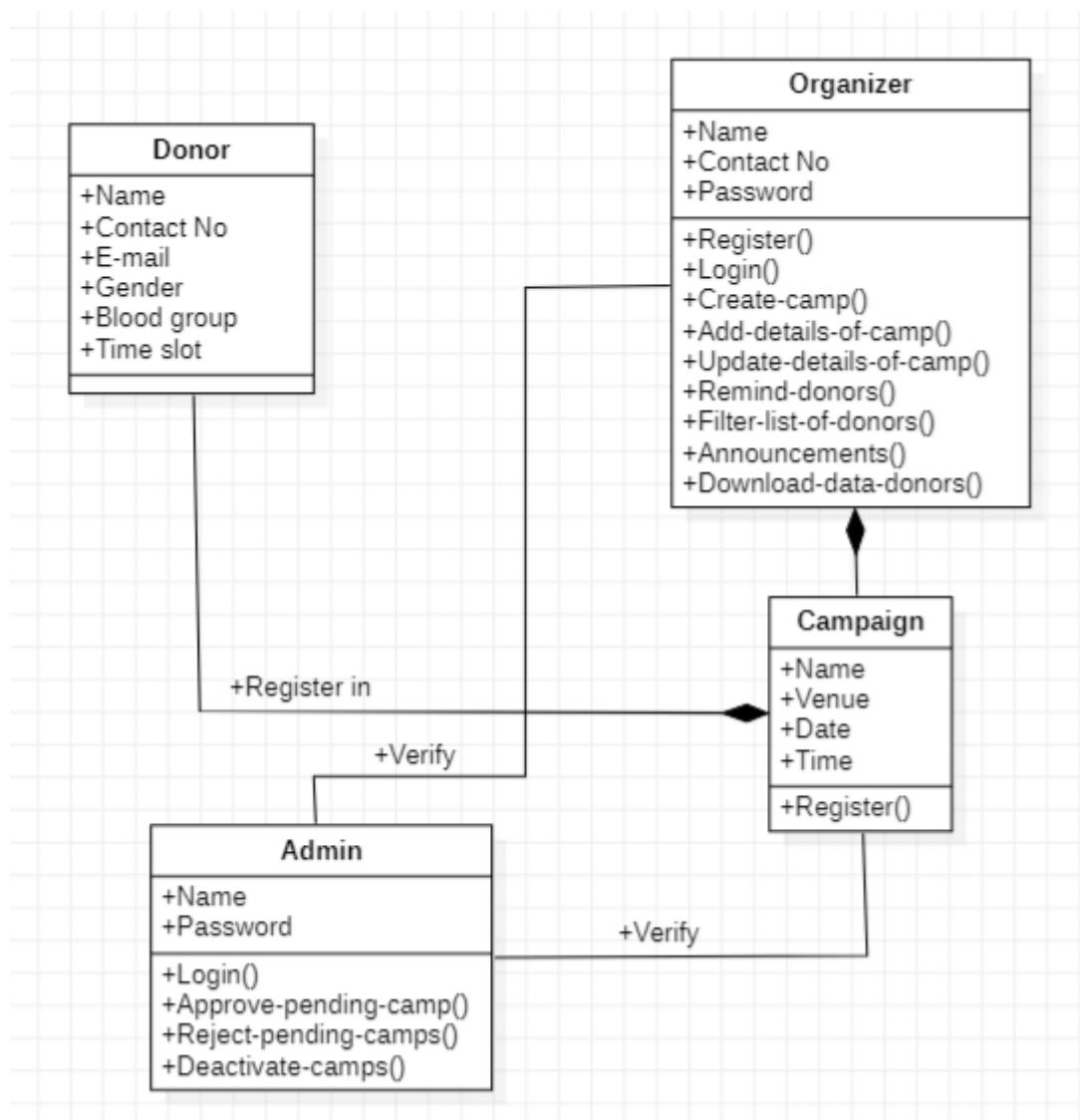
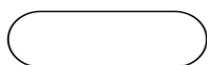


Figure no. 3.4.3, Figure name: Class Diagram

3.4.4) Flow Chart

- A flowchart is a type of diagram that represents a workflow or process. A flowchart can also be defined as a diagrammatic representation of an algorithm, a step-by-step approach to solving a task.
- The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows.



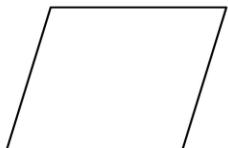
1. Start/End

An oval represents a start or endpoint in the flowchart.



2. Arrows

A line is a connector that shows the relationship between representative steps.



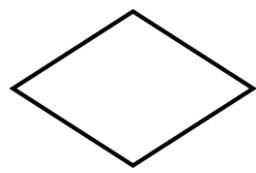
3. Input/ Output

A parallelogram represents input or output.



4. Process

A rectangle represents a process.



5. Decision

A diamond indicates a decision.

Flowchart of organizing campaign

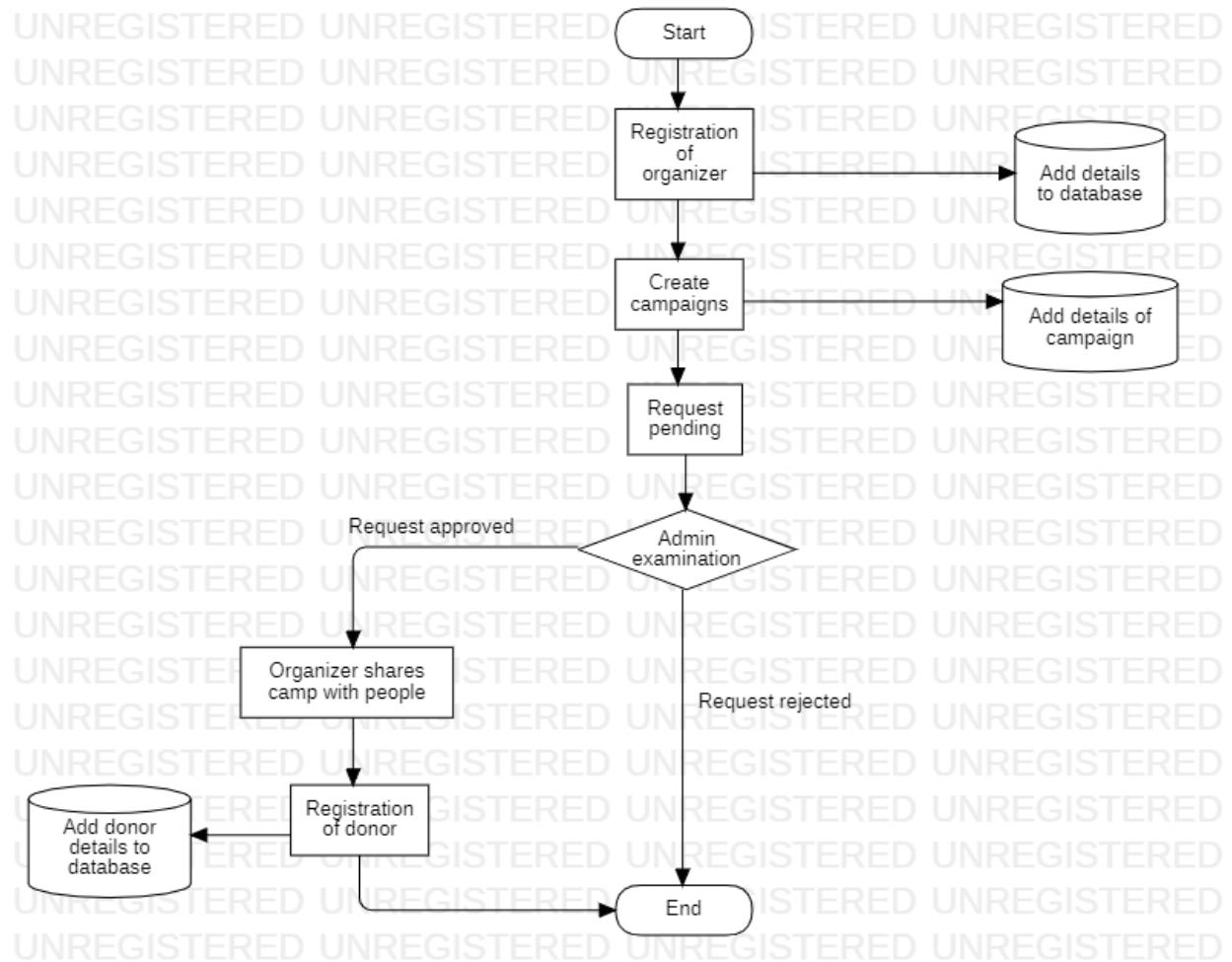


Figure no. 3.4.4, Figure name: Flowchart

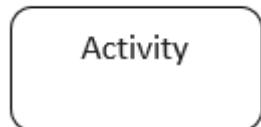
3.4.5) Activity diagram

- Activity diagram is another important behavioral diagram in UML diagram to describe dynamic aspects of the system.
- Activity diagram is essentially an advanced version of flowchart that modelling the flow from one activity to another activity.



1. Start symbol

Represents the beginning of a process or workflow in an activity diagram. It can be used by itself or with a note symbol that explains the starting point.



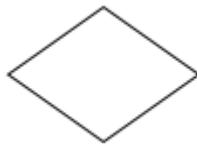
2. Activity symbol

Indicates the activities that make up a modeled process. These, which include short descriptions within the shape, are the main building blocks of an activity diagram.



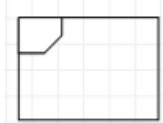
3. Connector symbol

Shows the directional flow or control flow, of the activity. An incoming arrow starts a step of an activity; once the step is completed, the flow continues with the outgoing arrow.



4. Option loop symbol

Allow the creator to model a respective sequence within the optional symbol.



5. Flow final symbol

Represents the end of a specific process flow. This symbol shouldn't represent the end of all flows in an activity; in that instance, you would use the end symbol. The flow final symbol should be placed at the end of a process in single activity flow.



6. Condition text

Placed next to a decision marker to let you know under what condition an activity flow should split off in direction.



7. End symbol

Marks the end state of an activity and represents the completion of all flows of a process.

Activity diagram of organizing campaign

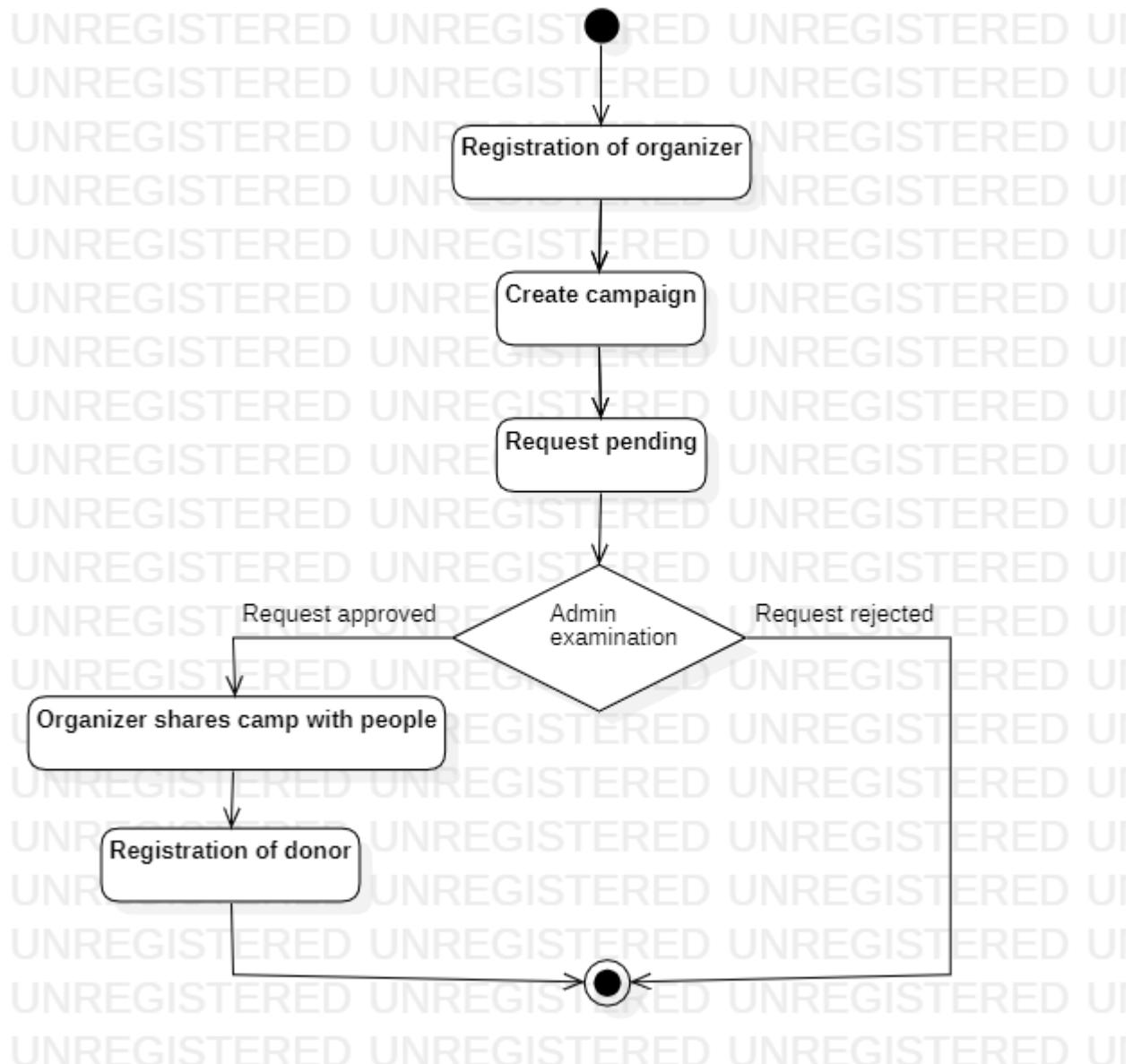


Figure no. 3.4.5, Figure name: Activity Diagram

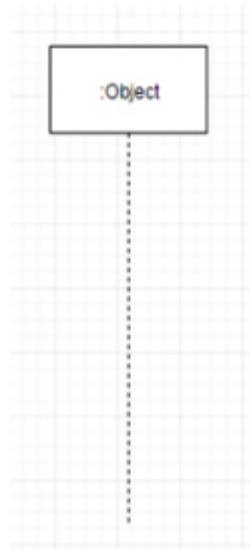
3.4.6) Sequence diagram

- A sequence diagram shows object interactions arranged in a time sequence. It depicts the objects and classes involved in the scenario and the sequence of the messages exchanged between the objects needed to carry out the functionality of the scenario.
- In simpler words, a sequence diagram shows different parts of a system work in a sequence to get something done



1. Object

Denoted by rectangle



2. Lifeline

Lifelines are vertical dashed lines that indicates object's presence over a time.



3. Activation

These are the boxes over the lifelines. Also called as invocation boxes, and indicates

that an object is responding to a message. It starts where the message is received and ends where the object is done handling the message

4. Types of message

a) Synchronous Message

Synchronous message requires a response before the interaction can continue.



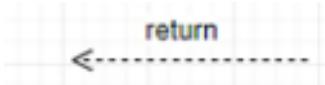
b) Asynchronous message

Asynchronous message doesn't need a reply for interaction to continue. Like synchronous message they are drawn with an arrow connecting two lifelines.



c) Reply or return message

Reply or return message is drawn with dotted line and an open arrow head pointing back to the original lifeline.



Sequence diagram of organizing campaign

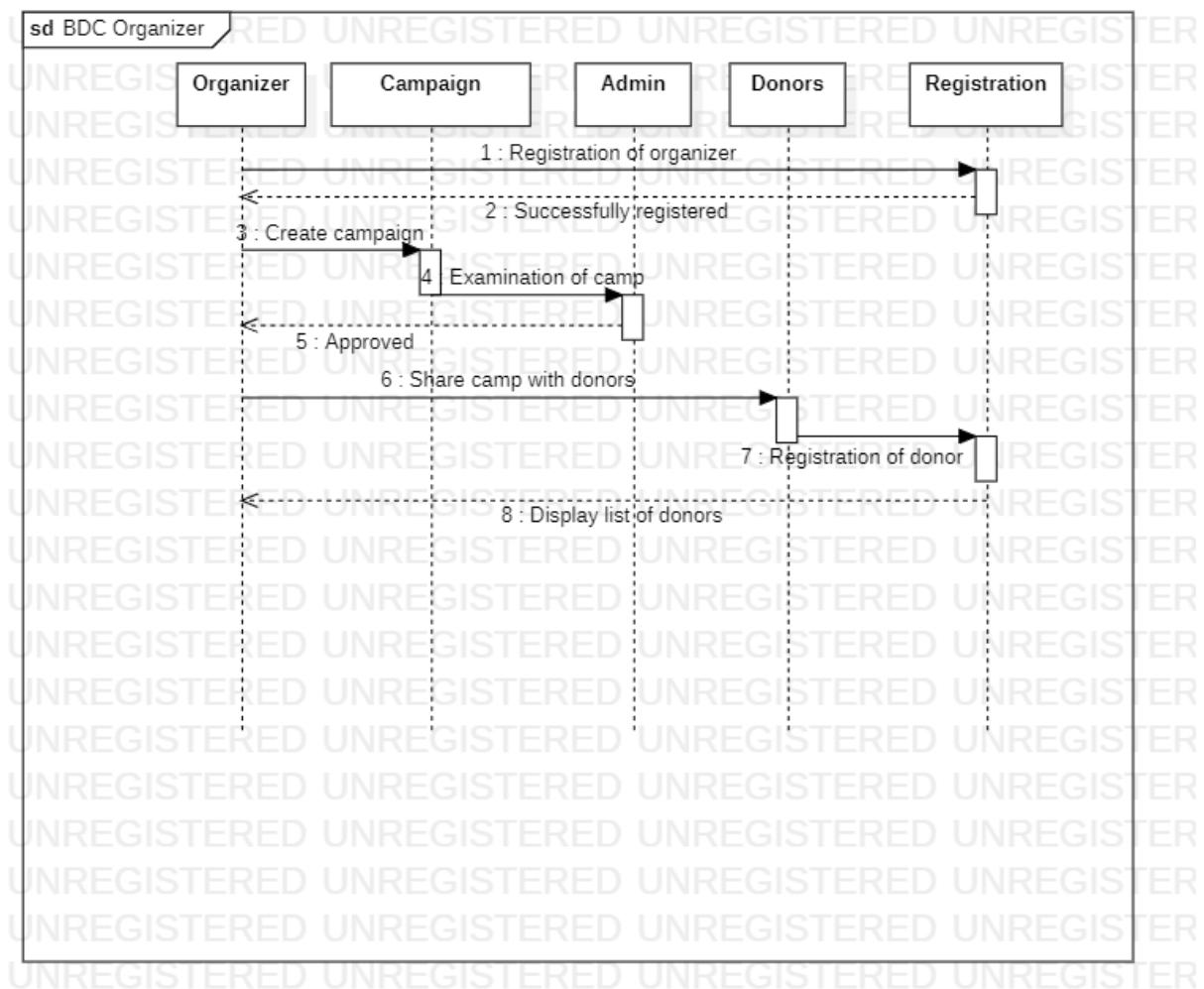


Figure no. 3.4.6, Figure name: Sequence Diagram

CHAPTER 4:

SYSTEM DESIGN

4.1) Pseudo Code

1. Registration of organizer

```
Begin
If (Registered)
{
    Proceed further to add Camp details
}
Else
{
    Register page
}
End if
```

2. Organize campaign

```
If (Organizer added all the details)
{
    Request pending
}
end if

If (Admin approved the request)
{
    Display campaign on Home page
}
end if
```

3. For donor to register

```
Begin
If (eligible)
{
    Register
}
Else {
    Do not register
}
End if
```

4.2) System Design

Home page:

Welcome to blood donation campaign organizer.

BDC ORGANIZER

HOME ABOUT US CAMPAIGNS ADD CAMPAIGN CONTACT

DONATE BLOOD AND GET REAL BLESSINGS.

Blood is the most precious gift that anyone can give to another person.
Donating blood not only saves the life also save donor's lives.

DONATION CAMPAIGNS

Campaigns to encourage new donors to join and existing to continue to give blood.



2022-03-16

NILAYA

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Sit, natus!

010 AM to 3 PM | 9ileparle

[Click to see Details](#)



2022-03-27

MLDC

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Sit, natus!

08 AM to 2 PM | 9MLDC

[Click to see Details](#)



2022-02-09

MISHRA

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Sit, natus!

010 AM to 3 PM | 9D.N.Nagar

[Click to see Details](#)



ARE YOU ORGANIZER?

Looking for conducting campaign in your locality, We ease the process of organizing campaign.

[CREATE CAMPAIGN](#)

Our website helps organizer to setup the camps easily. We believe that traditional way of organizing is not that efficient though we using, taking help of technology. For conducting blood donation camps we have features that will help organizer.

SUBSCRIBE US

Signup for regular newsletter and stay up to date with our latest news.

Enter Your Email

[SUBSCRIBE NOW](#)

CONTACT US

shubhampatil@gmail.com
jaysawant@gmail.com

[Irla, Vileparle](#)
mum-400056,

[Office: \(+91\) 0823 560 433](#)
Cell: (+91) 0723 161 343

CHECK STATUS

[CHECK STATUS OF YOUR CAMP](#)

Copyright shubham © 2022, All Rights Reserved
localhost/Template/BloodDonation/#

Home | About Us | Campaigns | Add Campaign | Login

Campaign details

Ganesh

Deborah Beck → Blood, Save Life

Announcements [Login](#)

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Facilis necessitatibus magni optio nobis dicta esse quas molestias deserunt et, sint fuga debitis asperiores dolorum illum soluta quae eos itaque nemo.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Perspiciatis tenetur nulla consequatur. Facere eaque quod assumenda dolorem beatae, nulla et rem quisquam possimus vitae, commodi optio sunt fugit? Ilo, itaque debitis. Amet, ex pariatur dolores cupiditate provident recusandae veritatis voluptatibus velit eius quos impedit nulla saepe iste dolor assumenda reprehenderit laborum itaque id. Voluptatum sit ipsam provident officiis, aspernatur aliquid.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Ipsa doloremque incident ad nobis quod natus, repudiandae suscipit iste error laudantium aperiam, quae, eum aspernatur hic facere officiis architecto totam quis ea nostrum consequuntur? Veniam qui ad tempore, dicta obcaecati veritatis eaque voluptatem saepe animi. Magnam nemo dolor excepturi eligendi, repellendus.

Details	Organizer	Venue
Date: 2022-03-10	Ganesh	Dahanukar
Time: 11AM to 4PM	Phone: 91 4537 8639 243	Location on G-maps : See location on G-maps
	Email: sameemore@gmail.com	

[REGISTER NOW→](#)

Announcements for donors



ANNOUNCEMENTS

—  —
Here you will see any updates related to campaign

nikhil here

About us



ABOUT US

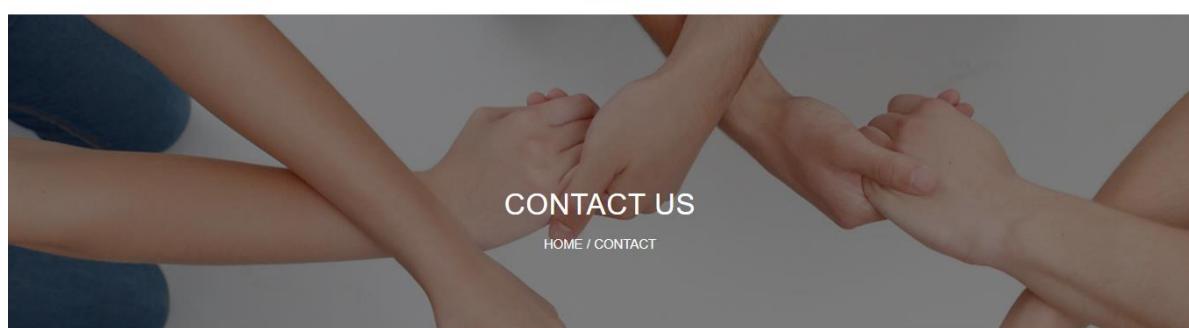
—  —
Why BDC Organizer?

"Blood Donation Campaign Organizer" (BDC Organizer) is the name of our website which helps organizer to setup the camps easily. We believe that conventional way of organizing is not that efficient though we are taking help of technology.

For conducting these campaigns, organizer have to register himself/herself first then enter their all necessary details camp. Donors can visit the website and register in the campaign. Organizer can see registered donors and keep them posted. He/She can remind them of campaign via E-mail, download data of donors.

BDC Organizer is developed for organizers convenience. Rather than using Google form, WhatsApp, Excel sheets, we provide organizers one single platform.

Contact us page



Contact us

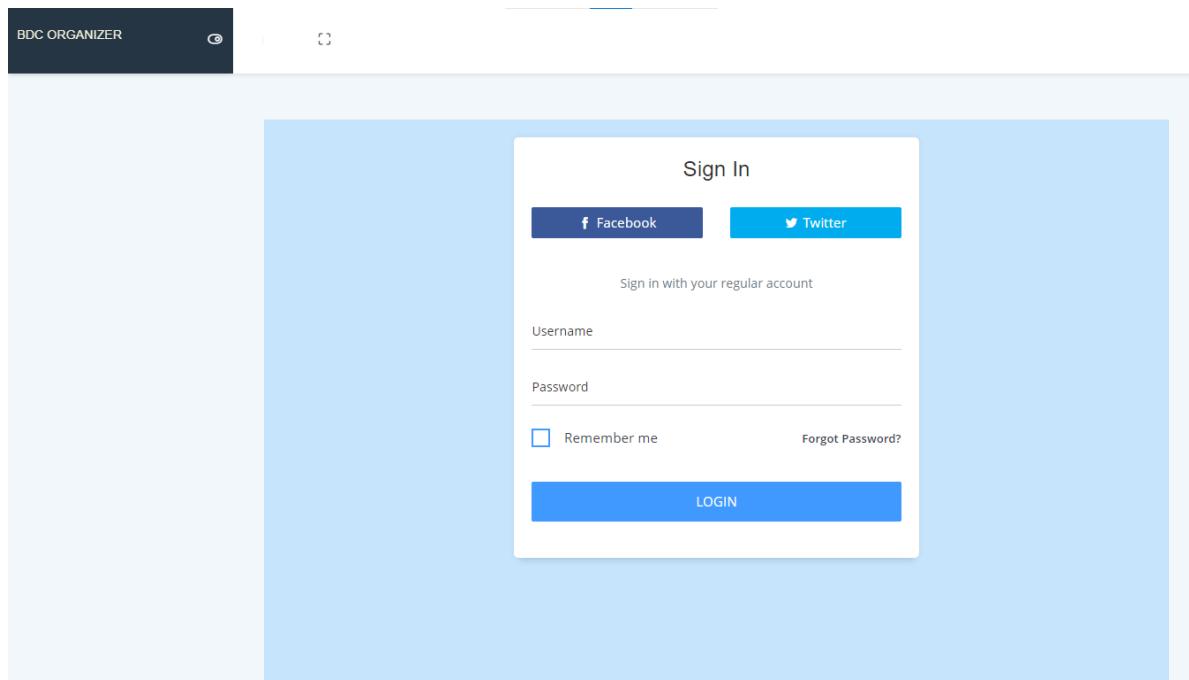
Irla,Vileparle

+91-120-525-9162

shubhamgpatil@gmail.com

jaysawant4@gmail.com

Login page of organizer and admin



Sign In

[**f Facebook**](#) [**Twitter**](#)

Sign in with your regular account

Username

Password

Remember me [Forgot Password?](#)

LOGIN

Registration form of organizer

BDC ORGANIZER 





Details Of Organizer

Enter Your Name

Contact Number

Password

Confirm Password

Submit



Details Of Organizer

Enter Your Name

Contact Number

Password

Confirm Password

Form of adding campaign details for organizer

Campaign Details

Enter Campaign Name

Enter Date

Enter Time

Enter Venue

Campaign Details

Enter Campaign Name

Enter Date

Enter Time

Enter Venue

BDC ORGANIZER

Timeslots For Donors

Enter First Time Slot	7:30 AM to 10:30 AM
Enter Number For First Time Slot	Enter Max No. Of Donors Can Donate For First Slot
Enter Second Time Slot	10:30 AM to 12:30 AM
Enter Number For Second Time Slot	Enter Max No. Of Donors Can Donate For Second Slot
Enter Third Time Slot	12:30 AM to 3:30 AM
Enter Number For Third Time Slot	Enter Max No. Of Donors Can Donate For First Slot

Submit

Timeslots For Donors

Enter First Time Slot	7:30 AM to 10:30 AM
Enter Number For First Time Slot	Enter Max No. Of Donors Can Donate For First Slot
Enter Second Time Slot	10:30 AM to 12:30 AM
Enter Number For Second Time Slot	Enter Max No. Of Donors Can Donate For Second Slot
Enter Third Time Slot	12:30 AM to 3:30 AM
Enter Number For Third Time Slot	Enter Max No. Of Donors Can Donate For First Slot

Submit

Pending request

The screenshot shows a web application interface. At the top left is a dark header bar with the text "BDC ORGANIZER". Below the header is a light gray content area with a title "Request Pending...". Underneath the title, there is a message: "Wait For Admin's Approval ! You can check the status of camp [here](#)". A vertical scroll bar is visible on the right side of the content area.

Check status of your camp

The screenshot shows a web application interface. At the top left is a dark header bar with the text "BDC ORGANIZER". Below the header is a light gray content area with a section titled "Status of Campaigns". This section contains a table with the following data:

#	Name Of Organizer	Name Of Campaign	Status
1	nikhil	nik	Approved
2	Pratham	mishra	Approved
3	Raj	Nair college	Rejected
4	Sahil	Sahil	Pending
5	Jay	Jay Sawant	Approved
6	Mahesh	Patil	Rejected
7	ABC	ABc	Pending

Donors :-

Registration form of donor

The screenshot shows a registration form for a blood donation event. At the top left, there is a dark header bar with the text "BDC ORGANIZER" and a small circular icon. The main form area has a light blue background and is titled "Registration Form". It contains the following fields:

- A button labeled "Click Me".
- A text input field labeled "Enter Your Name" with the placeholder "Enter Name Here..".
- A gender selection section with the label "Select Gender" and two radio buttons: "Male" and "Female".
- A dropdown menu labeled "Select Blood Group" with the placeholder "Select blood group".
- An email input field labeled "Enter Email" with the placeholder "Enter Email Here..".
- A contact number input field labeled "Enter Contact No" with the placeholder "Contact No".

Below the registration form, there is another modal window titled "Choose Timeslot". It lists three time slots with radio buttons and their respective capacities:

- First Slot: 10AM to 11AM *⁵⁰
- Second Slot: 11AM to 1PM *⁴⁰
- Third Slot: 1PM to 5PM *¹⁰⁰

At the bottom of the "Choose Timeslot" window is a blue "Submit" button.

Registration Form

[Click Me](#)

Enter Your Name

Enter Name Here..

Select Gender

Male Female

Select Blood Group

Select blood group

Enter Email

Enter Email Here..

Enter Contact No

Contact No

Choose Timeslot

First Slot 10:30 AM to 11:30 AM *³⁰

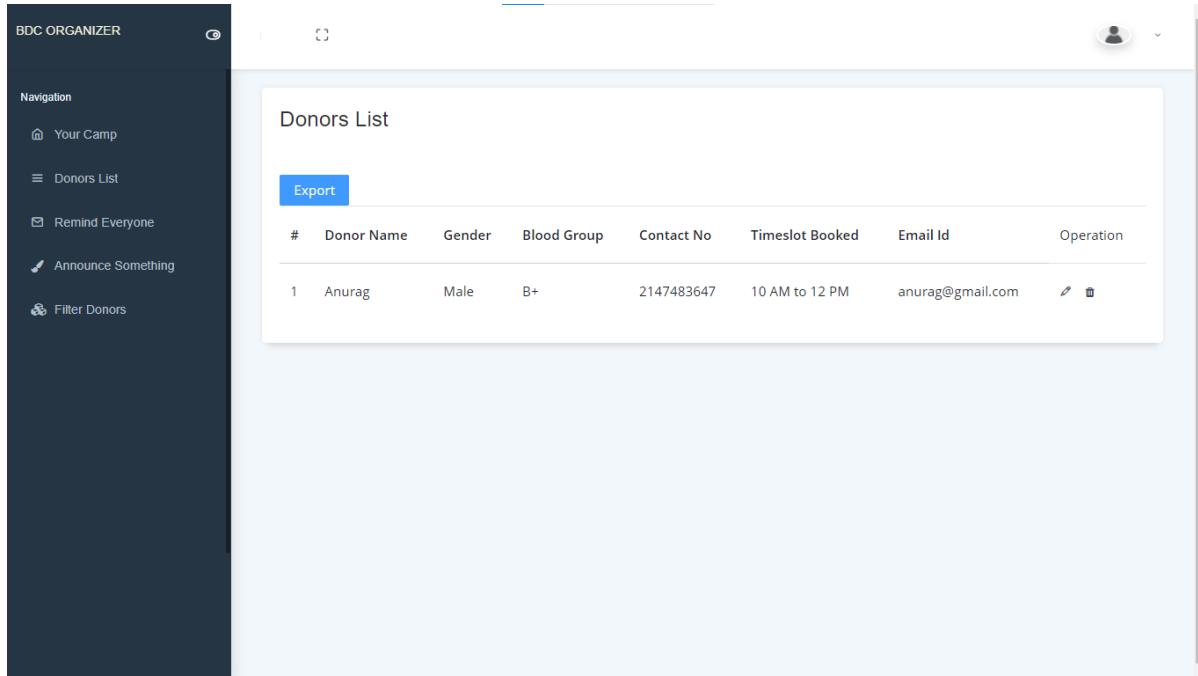
Second Slot 11:30 AM to 12:30 PM *²⁰

Third Slot 12:30 PM to 3PM *⁸⁰

[Submit](#)

Organizer:-

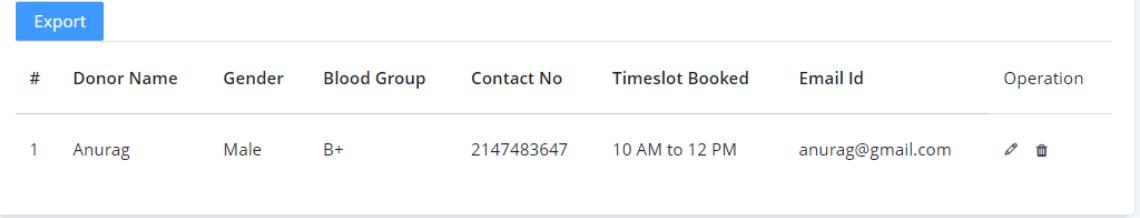
Donors registered in the campaign



The screenshot shows the 'BDC ORGANIZER' application interface. On the left, a dark sidebar titled 'Navigation' contains links: 'Your Camp', 'Donors List', 'Remind Everyone', 'Announce Something', and 'Filter Donors'. The main area is titled 'Donors List' and features a blue 'Export' button. A table displays donor information with columns: #, Donor Name, Gender, Blood Group, Contact No, Timeslot Booked, Email Id, and Operation. One row is shown for Anurag.

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked	Email Id	Operation
1	Anurag	Male	B+	2147483647	10 AM to 12 PM	anurag@gmail.com	 

Donors List



A modal window titled 'Donors List' is displayed. It includes a blue 'Export' button and a table with columns: #, Donor Name, Gender, Blood Group, Contact No, Timeslot Booked, Email Id, and Operation. One row is listed for Anurag.

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked	Email Id	Operation
1	Anurag	Male	B+	2147483647	10 AM to 12 PM	anurag@gmail.com	 

Edit camp

MLDC

👤 Deborah Beck ➔ Blood, Save Life

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Facilis necessitatibus magni optio nobis dicta esse quas molestias deserunt et, sint fuga debitis asperiores dolorum illum soluta quae eos itaque nemo.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Perspiciatis tenetur nulla consequatur. Facere eaque quod assumenda dolorem beatae, nulla et rem quisquam possimus vitae, commodi optio sunt fugit? Ilo, itaque debitis. Amet, ex pariatur dolores cupiditate provident recusandae veritatis voluptatibus velit eius quos impedit nulla saepe iste dolor assumenda reprehenderit laborum itaque id. Voluptatum sit ipsum provident officiis, aspernatur aliquid.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Ipsa doloremque incident ad nobis quod natus, repudiandae suscipit iste error laudantium aperiam, quae, eum aspernatur hic facere officiis architecto totam quis ea nostrum consequuntur? Veniam qui ad tempore, dicta obcaecati veritatis eaque voluptatem saepe animi. Magnam nemo dolor excepturi eligendi, repellendus.

Details	Organizer	Venue
Date: 2022-03-25	Mrunali	MLDC
Time: 8 AM to 2 PM	Phone: 01 4537 8639 243 Email: info@codeecstasy.com Website: http://booking.codeecstasy.com	Phone: 01 8745 4362 329 Website: http://venue.codeecstasy.com

EDIT CAMP DETAILS

BDC ORGANIZER

Campaign Details

Campaign Name	MLDC
Enter Date	25-03-2022
Enter Time	8 AM to 2 PM
Enter Venue	MLDC

Timeslots For Donors

Enter First TimeSlot	8AM to 10AM
Enter Number	50
Enter Second TimeSlot	10 AM to 12 PM
Enter Number	48
Enter Third TimeSlot	12 PM to 2 PM

Campaign Details

Campaign Name	MLDC
Enter Date	27-03-2022 <input type="button" value="Edit"/>
Enter Time	8 AM to 2 PM
Enter Venue	MLDC

Timeslots For Donors

Enter First TimeSlot	8AM to 10AM
Enter Number	50
Enter Second TimeSlot	10 AM to 12 PM
Enter Number	48
Enter Third TimeSlot	12 PM to 2 PM
Enter Number	100

BDC ORGANIZER

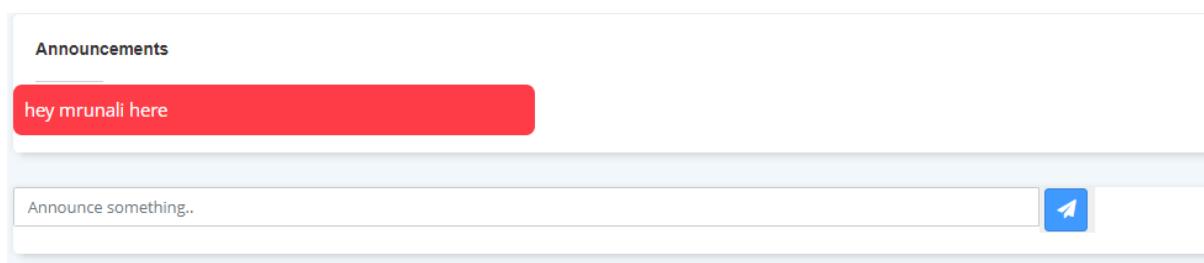
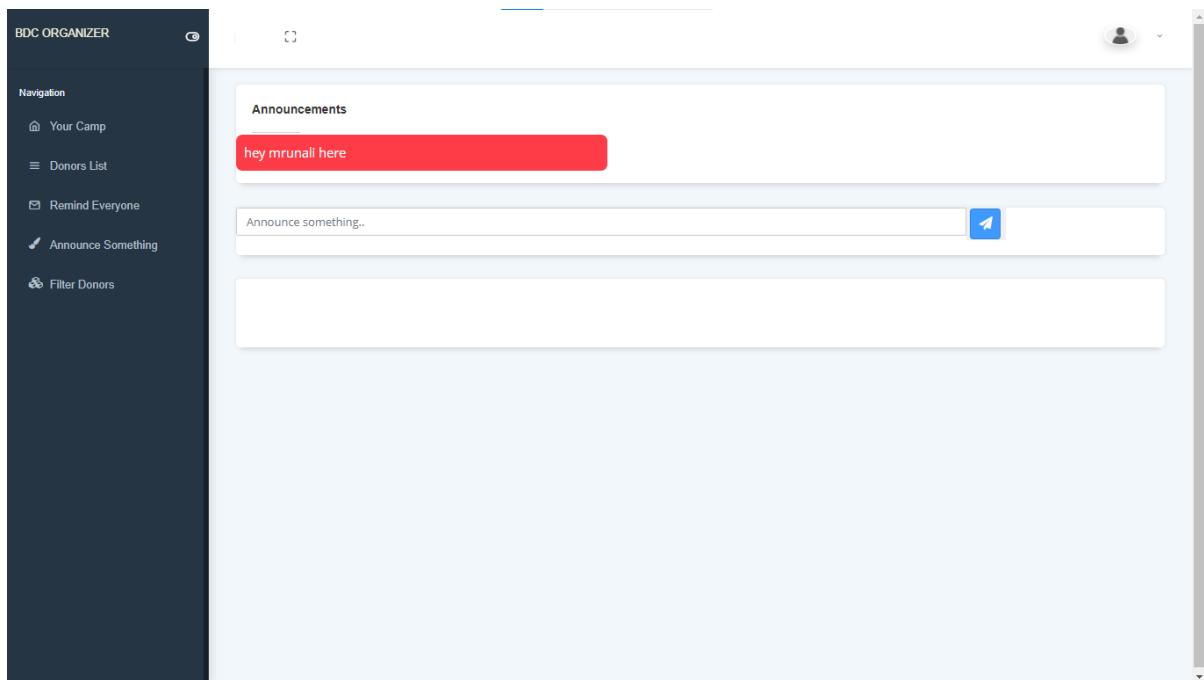
Updated successfully

Remind everyone

The screenshot shows the BDC ORGANIZER application window. On the left, a dark sidebar titled "Navigation" contains links: "Your Camp", "Donors List", "Remind Everyone" (which is highlighted in blue), "Announce Something", and "Filter Donors". The main area is titled "Send Mail" and includes fields for "Enter Name" (with a placeholder "John Doe"), "Email ID" (with a placeholder "john.doe@example.com"), and "Email Body" (containing the text "Dear, We sending this email to remind you about blood campaign held at Dahanukar college."). A "Send E-Mail" button is at the bottom. Below the form are two small colored squares, one teal and one red.

This is a zoomed-in view of the "Send Mail" form. It has three input fields: "Enter Name" (empty), "Email ID" (empty), and "Email Body" (containing the text "Dear, We sending this email to remind you about blood campaign held at Dahanukar college."). Below the form is a "Send E-Mail" button.

Announcements section



Filter donors by blood group

The screenshot shows the BDC Organizer software interface. On the left is a dark sidebar with navigation options: Your Camp, Donors List, Remind Everyone, Announce Something, and Filter Donors. The main area is titled "Search Donors" and has two tabs: "By Blood Group" (selected) and "By Time Slot". A dropdown menu under "Blood Group" shows "Blood Group" and "B+", with "B+" highlighted. The results table lists one donor: Anurag, Male, B+, contact number 2147483647, and timeslot booked from 10 AM to 12 PM.

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked
1	Anurag	Male	B+	2147483647	10 AM to 12 PM

A zoomed-in view of the "By Blood Group" table from the previous screenshot. The columns are labeled: #, Donor Name, Gender, Blood Group, Contact No, and Timeslot Booked. One row is visible for Anurag, who is Male and belongs to the B+ blood group.

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked
1	Anurag	Male	B+	2147483647	10 AM to 12 PM

Filter donors by time slot

The screenshot shows the BDC ORGANIZER application interface. On the left, there is a dark sidebar with a navigation menu containing options like 'Your Camp', 'Donors List', 'Remind Everyone', 'Announce Something', and 'Filter Donors'. The main area is titled 'Search Donors' and has two tabs at the top: 'By Blood Group' (which is currently selected) and 'By Time Slot'. Below the tabs, there is a dropdown menu labeled 'Time Slot' with the option '10 AM to 12 PM' highlighted. A table below the dropdown lists donor information: #, Donor Name, Gender, Blood Group, Contact No, and Timeslot Booked. One entry is shown: Anurag (Male, B+, 2147483647, 10 AM to 12 PM).

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked
1	Anurag	Male	B+	2147483647	10 AM to 12 PM

This screenshot shows the same 'Search Donors' interface as the previous one, but with the 'By Blood Group' tab selected instead of 'By Time Slot'. The dropdown menu for 'Time Slot' is still visible. The table below shows the same single entry for Anurag.

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked
1	Anurag	Male	B+	2147483647	10 AM to 12 PM

Update donor details

The screenshot shows the 'BDC ORGANIZER' application interface. On the left is a dark sidebar with a navigation menu:

- Your Camp
- Donors List
- Remind Everyone
- Announce Something
- Filter Donors

The main area is titled 'Update donor's form'. It contains the following fields:

Enter Your Name	Anurag
Chosen Gender	Male
Select Gender	<input type="radio"/> Male <input type="radio"/> Female
Chosen Blood Group	B+
Select Blood Group	Select blood group
Enter Email	anurag@gmail.com
Enter Contact No	2147483647

Below these fields, there is a section titled 'Choose Timeslot' with the following options:

First Slot	<input type="radio"/> 8AM to 10AM * ⁵⁰
------------	---

Enter Your Name Anurag

Chosen Gender Male

Select Gender Male Female

Chosen Blood Group B+

Select Blood Group Select blood group

Enter Email anurag@gmail.com

Enter Contact No 2147483647

Chosen Time slot 10 AM to 12 PM

Choose Timeslot

First Slot	<input type="radio"/> 8AM to 10AM * ⁵⁰
Second Slot	<input type="radio"/> 10 AM to 12 PM * ⁴⁸
Third Slot	<input type="radio"/> 12 PM to 2 PM * ¹⁰⁰

Update

Organizer Logout

The screenshot shows the BDC ORGANIZER application interface. On the left, there is a dark sidebar with a navigation menu:

- Your Camp
- Donors List
- Remind Everyone
- Announce Something
- Filter Donors

The main content area is titled "Donors List". It features a blue "Export" button. Below it is a table with the following data:

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked	Email Id	Operation
1	Anurag	Male	B+	2147483647	10 AM to 12 PM	anurag@gmail.com	

In the top right corner of the main content area, there is a "Logout" button.

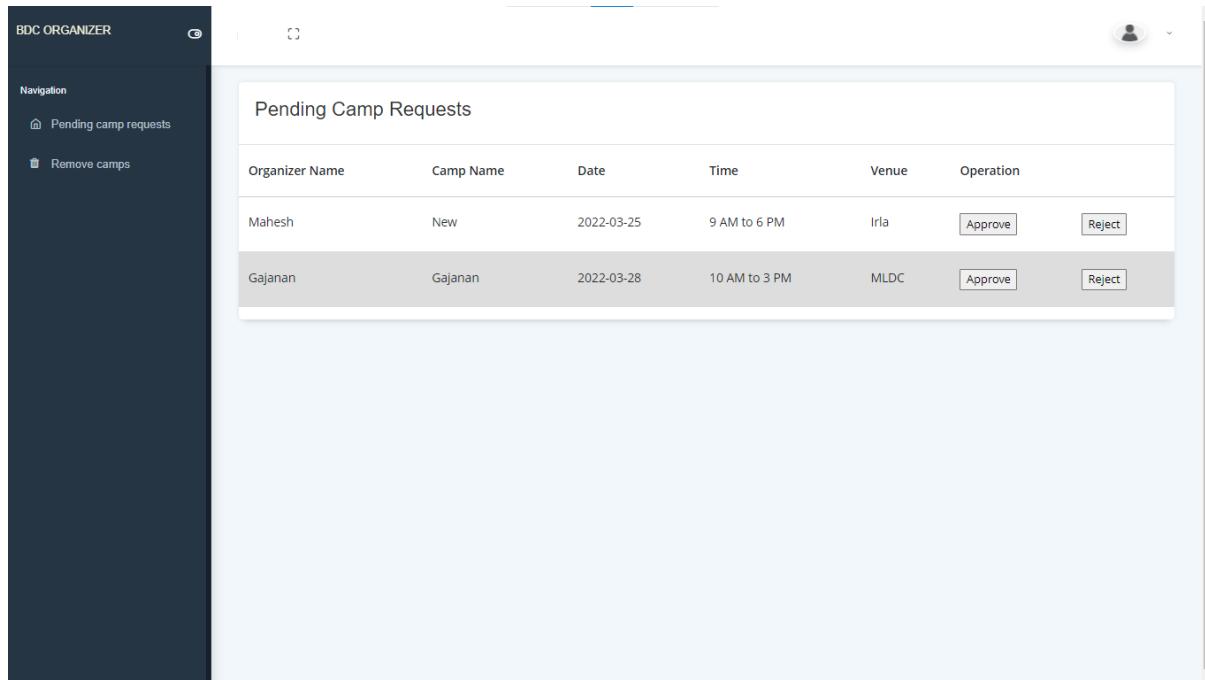
This screenshot shows the same "Donors List" page as the previous one, but it appears to be a different instance or a slightly different view. The table data is identical:

#	Donor Name	Gender	Blood Group	Contact No	Timeslot Booked	Email Id	Operation
1	Anurag	Male	B+	2147483647	10 AM to 12 PM	anurag@gmail.com	

The "Logout" button is also present in the top right corner.

Admin:-

Admin pending campaigns



The screenshot shows a web-based application for managing camp requests. On the left, there is a dark sidebar with the title "BDC ORGANIZER" and a navigation menu containing "Pending camp requests" and "Remove camps". The main content area is titled "Pending Camp Requests" and displays a table with two rows of data. The columns are "Organizer Name", "Camp Name", "Date", "Time", "Venue", and "Operation". The first row represents a request from "Mahesh" for a "New" camp on "2022-03-25" from "9 AM to 6 PM" at "Irla", with "Approve" and "Reject" buttons. The second row represents a request from "Gajanan" for a "Gajanan" camp on "2022-03-28" from "10 AM to 3 PM" at "MLDC", also with "Approve" and "Reject" buttons.

Organizer Name	Camp Name	Date	Time	Venue	Operation
Mahesh	New	2022-03-25	9 AM to 6 PM	Irla	<button>Approve</button> <button>Reject</button>
Gajanan	Gajanan	2022-03-28	10 AM to 3 PM	MLDC	<button>Approve</button> <button>Reject</button>

Pending Camp Requests

Organizer Name	Camp Name	Date	Time	Venue	Operation
Mahesh	New	2022-03-25	9 AM to 6 PM	Irla	<button>Approve</button> <button>Reject</button>
Gajanan	Gajanan	2022-03-28	10 AM to 3 PM	MLDC	<button>Approve</button> <button>Reject</button>

Deactivate campaigns

The screenshot shows a user interface for managing campaigns. On the left, a dark sidebar titled "BDC ORGANIZER" contains a "Navigation" section with links for "Pending camp requests" and "Remove camps". The main area is titled "Deactivate Camps" and displays a table of current campaigns. The table has columns for Organizer Name, Camp Name, Date, Time, Venue, and Operation (with a "Remove" button). Three rows are listed:

Organizer Name	Camp Name	Date	Time	Venue	Operation
nikhil	nilaya	2022-03-16	10 AM to 3 PM	vileparle	<button>Remove</button>
Pratham	mishra	2022-02-09	10 AM to 3 PM	D.N.Nagar	<button>Remove</button>
Mrunali	MLDC	2022-03-27	8 AM to 2 PM	MLDC	<button>Remove</button>

Deactivate Camps

Organizer Name	Camp Name	Date	Time	Venue	Operation
nikhil	nilaya	2022-03-16	10 AM to 3 PM	vileparle	<button>Remove</button>
Pratham	mishra	2022-02-09	10 AM to 3 PM	D.N.Nagar	<button>Remove</button>
Mrunali	MLDC	2022-03-27	8 AM to 2 PM	MLDC	<button>Remove</button>

CHAPTER 5:

IMPLEMENTATION AND TESTING

5.1) Implementation approaches:

Incremental Model:

The incremental process model is also known as the Successive version model. First, a simple working system implementing only a few basic features is built and then that is delivered to the customer. Then thereafter many successive iterations/ versions are implemented and delivered to the customer until the desired system is released. The development Team first undertakes to develop core features (these do not need services from other features) of the system. Once the core features are fully developed, then these are refined to increase levels of capabilities by adding new functions in Successive versions. Each mental version is usually developed using an iterative waterfall model of development.

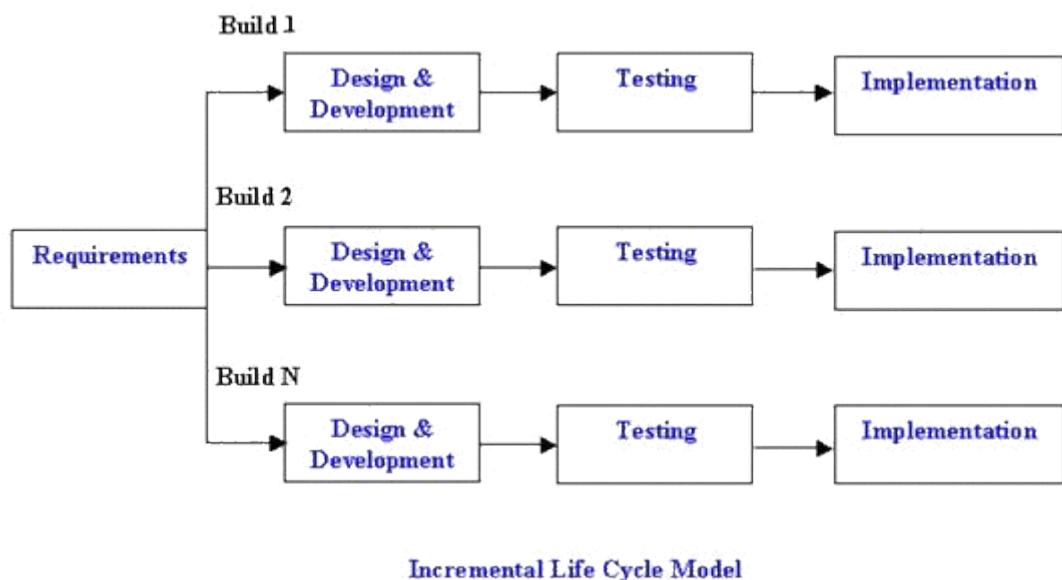


Figure no.5.1, Figure name: Incremental model

- 1. Requirement analysis:** In the first phase of the incremental model, the product analysis expertise identifies the requirements. And the system functional requirements are understood by the requirement analysis team. To develop the website under the incremental model, this phase performs a crucial role.

2. Design & Development: In this phase of the Incremental model of SDLC, the design of the system functionality and the development method are finished with success. When website develops new practicality, the incremental model uses the style and development phase.

3. Testing: In the incremental model, the testing phase checks the performance of each existing function as well as additional functionality. In the testing phase, various methods are used to test the behaviour of each task.

4. Implementation: The implementation phase enables the coding phase of the development system. It involves the final coding that is designed in the designing and development phase and tests the functionality in the testing phase. After completion of this phase, the number of the products working is enhanced and upgraded up to the final system product

In implementing of project, languages used to develop were HTML, CSS, JavaScript, jQuery, bootstrap and PHP used. MYSQL was used for the database. Active campaign are shown on the home page. Then there button labelled as create your own campaign, on clicking the button by adding necessary details he can set the camp. And then organizer can see the list of registered donors and other privileges given to organizer.

At the end of all phases, the app was tested.

Increment 1:

- Project was approved in the first phase.
- Feasibility study was also done.
- Then for requirement gathering we circulated forms. Responses of people has been taken in the account while adding the features in website.

Increment 2:

- In second increment, we designed registration page, form of campaign details for organizer and then request pending window. Header and Footer designed here.
- Coded the same pages and inserted data successfully in “Campaign” table of database. Coding of header and footer was also done in this phase.
- Testing of all pages whether they working together properly or not by entering valid and invalid inputs was done.

Increment 3:

- In third increment, designing of Home page, Check status of your campaign, login logout page of admin, request approving/ rejecting page, admin deactivating expired campaigns page was done.
- Then we worked on coding part of pages mentioned above. In check status of your camp page, it will display all camps with request pending, approved and rejected.
- Testing of Home page and Admin interface was done in second increment.

Increment 4:

- In this increment, we designed Home page, navigation bar, event details page and registration form for donor.
- Approved campaigns and details related were displayed dynamically on Index page. Form of donors displayed dynamically as well. Details of donors inserted successfully in “Donor-details” table.
- We also tested that, campaigns are displayed on Home page whether approved by admin or not. Testing was done by entering valid, invalid values on from pages.

Increment 5:

- In fifth increment, designed dashboard of organizer. It contains List of donors , update/edit camp details section, announcements section, remind everyone, Filtering , download data of donors.
- Then we coded the same mentioned above. Coding part of updating campaign details, updating details of donor or removing donor was done. Coding of reminding participants, announcement section, Filtering donors by the blood group and timeslot they have chosen, exporting donors in csv format was done.
- Testing was done and it is working properly.

Increment 6:

- Designed About us page, Contact us page, designing of logo, preloader was done here.
- They were tested and working as expected.

5.2) Coding Details and Code Efficiency:

1. Organizing campaign:-

Registration form of organizer

```
<h5>Details Of Organizer</h5>
<div class="card-block">
<form id="main" method="post" action="form-camp-details.php" onsubmit="return
validateForm()" name="oform">

<div class="form-group row" id="name">
<label class="col-sm-2 col-form-label">Enter Your Name</label>
<div class="col-sm-10">
<input type="text" class="form-control" name="fname" placeholder="Name.." required>
<b><span class="formerror"> </span></b>
</div>
</div>

<div class="form-group row" id="phone">
<label class="col-sm-2 col-form-label">Contact Number</label>
<div class="col-sm-10">
<input type="number" class="form-control" name="fphone" id="numeric"
placeholder="Contact Number" required >
<b><span class="formerror"> </span></b>
</div>
</div>

<div class="form-group row" id="pass">
<label class="col-sm-2 col-form-label">Password</label>
<div class="col-sm-10">
<input type="password" class="form-control fill" id="password" name="fpass"
placeholder="Password input">
<b><span class="formerror"> </span></b>
</div>
</div>

<div class="form-group row" id="cpass">
<label class="col-sm-2 col-form-label">Confirm Password</label>
```

```

<div class="col-sm-10">
<input type="password" class="form-control fill" id="password" name="fcpass"
placeholder="Password input">
<b><span class="formerror"> </span></b>
</div>
</div>

<div class="form-group row">
<label class="col-sm-2"></label>
<div class="col-sm-10">
<button type="submit" class="btn btn-primary m-b-0">Submit</button>
</div>
</div>

</form>
</div>
</div>

```

Form of adding campaign details

```

<div class="card">
<div class="card-header">
<h4>Campaign Details</h4>
</div>
<div class="card-block">
<form action="Event-data-success.php" method="get" onsubmit="return
validateForm()" name="oform">
<div class="form-group row" id="cname">
<label class="col-sm-2 col-form-label">Enter Campaign Name</label>
<div class="col-sm-10">
<input type="text" class="form-control" placeholder="Campaign Name"
name="cpname" required >
<b><span class="formerror"> </span></b>
</div>
</div>
<div class="form-group row">
<label class="col-sm-2 col-form-label">Enter Date</label>

```

```

<div class="col-sm-10">
<input type="date" class="form-control" placeholder="Campaign Date"
name="camp_date" required min="<?php echo date("Y-m-d"); ?>">
</div>
</div>

<div class="form-group row" id="camp-time-id">
<label class="col-sm-2 col-form-label">Enter Time</label>
<div class="col-sm-10">
<input type="text" class="form-control" placeholder="10 AM to 3 PM"
name="camptime" required>
<b><span class="formerror"> </span></b>
</div> </div>
<div class="form-group row" id="vname">
<label class="col-sm-2 col-form-label">Enter Venue</label>
<div class="col-sm-10">
<input type="text" class="form-control" placeholder="Andheri" name="vn"
required>
<b><span class="formerror" > </span></b>
</div>
</div>
</div>
</div>

<div class="card">
<div class="card-header">
<h4>Timeslots For Donors </h4>
</div>
<div class="card-block">
<div class="form-group row" id="FT">
<label class="col-sm-2 col-form-label">Enter First Time Slot</label>
<div class="col-sm-10">
<input type="text" class="form-control" placeholder="7:30 AM to 10:30 AM"
name="first_timeslot" required>
<b><span class="formerror"> </span></b>

```

```

</div>
</div>

<div class="form-group row" id="FTN">
<label class="col-sm-2 col-form-label">Enter Number For First Time Slot</label>
<div class="col-sm-10">
<input type="number" class="form-control" placeholder="Enter Max No. Of Donors
Can Donate For First Slot" data-toggle="tooltip" data-original-title="These Number
Of People Only Can Register For This Slot" name="first_timeslot_no" required>
<b><span class="formerror"></span></b>
</div>
</div>

<div class="form-group row" id="ST">
<label class="col-sm-2 col-form-label">Enter Second Time Slot</label>
<div class="col-sm-10">
<input type="text" class="form-control" placeholder="10:30 AM to 12:30 AM"
name="second_timeslot" required>
<b><span class="formerror"></span></b>
</div>
</div>

<div class="form-group row" id="STN">
<label class="col-sm-2 col-form-label">Enter Number For Second Time Slot</label>
<div class="col-sm-10">
<input type="number" class="form-control" data-toggle="tooltip" data- original-
title="These Number Of People Only Can Register For This Slot"
placeholder="Enter Max No. Of Donors Can Donate For Second Slot"
name="second_timeslot_no" required>
<b><span class="formerror"></span></b>
</div>
</div>

<div class="form-group row" id="TT">
<label class="col-sm-2 col-form-label">Enter Third TimeSlot</label>
<div class="col-sm-10">
<input type="text" class="form-control" placeholder="12:30 AM to 3:30 AM"
name="third_timeslot" required>

```

```
<b><span class="formerror"> </span></b>
</div>
</div>
<div class="form-group row" id="TTN">
<label class="col-sm-2 col-form-label">Enter Number For Third Time Slot</label>
<div class="col-sm-10">
<input type="number" class="form-control" data-toggle="tooltip" data-original-
title="These Number Of People Only Can Register For This Slot" placeholder="Enter
Max No. Of Donors Can Donate For First Slot" name="third_timeslot_no" required>
<b><span class="formerror"> </span></b>
</div>
</div>
<div class="form-group row">
<label class="col-sm-2"></label>
<div class="col-sm-10">
<button type="submit" class="btn btn-primary m-b-0">Submit</button>
</div>
</div>
</form>
</div>
</div>
```

5.3) Testing Approach:

1. Unit Testing:

Unit testing involves the testing of each unit or an individual component of the software application. It is the first level of functional testing. The aim behind unit testing is to validate unit components with their performance. It may include code files, classes that are tested individually.

This testing was carried out during the programming phase itself. Each unit was thoroughly tested to check whether any unit does not give any error. A few changes were made in ‘check status of your campaign’ page for organizers. At the end of the unit testing, each unit was completely tested and was working as expected.

2. Integration Testing:

Integration testing is the second level of the software testing process that comes after unit testing. In this testing, units or individual components of the software are tested in a group. The focus of the integration testing level is to expose defects at the time of interaction between integrated components or units. Unit testing uses modules for testing purposes, and these modules are combined and tested in integration testing.

Integration testing starts at the module level where different components come together to form a module and go up to the system level.

This testing was carried out after the Registration, login and logout page of organizer, on organizing campaign part, on registration form of donors, updating camp details, donor’s details, filtering the donors by blood group and time slot, reminding donor’s window. Changes were made in code, while inserting campaign details, before the name it was adding space that was causing problem on Login page. Now it is working properly.

3. System Testing:

System Testing is a type of software testing that is performed on a complete integrated system to evaluate the compliance of the system with the corresponding requirements. In system testing, integration testing passed components are taken as input.

System Testing is carried out on the whole system in the context of either system requirement specifications or functional requirement specifications or in the context of both. We performed system testing on the whole system, inputs taken from integration testing were checked in this testing and they are working without any error.

4. Usability Testing:

Usability testing is a type of testing that is done from an end user's perspective to determine if the system is easily usable. Usability testing is generally the practice of testing how easy design is to use on a group of representative users. Usability testing provides some benefits and the main benefits and purpose of usability testing are to identify usability problems with a design as early as possible, so they can be fixed before the design is implemented or mass produced.

While performing usability testing, we made some changes in form validation part. When user enters invalid/wrong data in the form we displayed proper error instead of "Invalid input".

5. Smoke Testing:

Smoke testing is a software testing method that determines whether the employed build is stable or not. It acts as a confirmation whether the quality assurance team can proceed with further testing. Smoke tests are a minimum set of tests run on each build. Smoke testing is a process where the software build is deployed to quality assurance environment and is verified to ensure the stability of the application. Smoke Testing is also known as Confidence Testing or Build Verification Testing.

We performed smoke testing for our website. Main purpose is organizing campaigns and registration of donors and other features, all these are working fine without any error.

5.4) Modifications and Implementations

He who wishes organize the campaign needs to register himself first by that Username and password. And using the same he can login. Here, even after validating the form website was generating whitespace at the beginning of Username. It was causing trouble while login.

Error was found at insertion of data in database. There was a single space before name and it was causing all this issue. By removing the space issue was resolved.

In registration form for donors, donor chooses time slot to donate. In the right corner of timeslot, displays the no of slots available. Each time donor submits the form, time slot he has chosen, no of slots available associated to time slot will be reduced by one. The issue I was facing here how website will deduct associated number of available slot.

I modified code, when donor submits the form, value attribute of radio button will send whether it's first slot, second or third slot. Using explode function extracted the value and deducted the number of slots available.

5.5) Test cases:

P1 indicates the highest priority. These are the “MUST BE” requirements which are the primary requirements.

P2 indicates the “SHOULD BE” requirements which may add value to the product.

P3 indicates “COULD BE” requirements which may add a competitive advantage to the product.

Registration and login of organizer:

Test case No.	Priority	Test cases/Objective	Steps/Procedure	Input test data	Test results
TC01	P1	Register with all fields blank	Leave all fields blank and click on Next button	NULL	Please fill out this fields
TC02	P1	Adding numeric value to name	Enter numeric value and click on Next button	Any numeric value	Name must contain only alphabets
TC03	P1	Adding white space to Organizer Name	Enter white space in Organizer Name and click on Next button	Adding white space to Organizer Name	Name must not contain white spaces
TC04	P1	Adding invalid phone no.	Adding phone no. more or less than 10 and click on Next button	Adding more or less values	Phone number must contain 10 digits
TC05	P1	To assign the password	Entering password less than defined range	Any range less than 6	Password must be 6 characters long and max 8 characters
TC06	P1	To verify confirm password enter a password different than above password	Assign password and click on register button	Any password different from assigned password	Password do not match.
TC07	P1	To verify if login is successful with	Entering valid Name, Contact No	Valid inputs	Login Successful and goes to

		valid Name, Contact No and Password	and Password on Login page		Campaign Details form
TC08	P1	To logout	Logout	NULL	Show Login page

Organizer Adding details of Blood donation campaign

Test case no.	Priority	Test cases/ Objective	Steps/ Procedure	Input test data	Test results
TC09	P1	Register with all fields blank	Leave all fields blank and click on register button	NULL	Please fill out this fields
TC10	P1	Adding numeric value to Camp name	Enter numeric value and click on register button	Any numeric value	Name must contain only alphabets
TC11	P1	Adding numeric value to Venue	Enter numeric venue and click on register button	Any numeric value	Venue must contain only alphabets
TC12	P1	Selecting past Date other than today of campaign	Trying to select previous dates	Any previous date	Disabled previous date
TC13	P1	Clicking on Register button without entering to timeslot	Do not enter slot and click on register button	NULL	Please fill out this field
TC14	P1	To verify if registration is successful with all valid fields	Entering valid Camp Name, Date, Time, Venue, Time slots and No. of donors for time slot	Valid inputs	Registration complete and goes to Request pending window

Registration form of donors

Test case no.	Priority	Test cases/ Objective	Steps/ Procedure	Input test data	Test results
TC15	P1	Leave all fields blank	Leave all fields blank and click on register button	NULL	Please fill out this fields
TC16	P1	Adding numeric value to Donor name	Enter numeric value and click on register button	Any numeric value	Name must contain only alphabets
TC17	P1	Clicking on Register button without selecting Gender	Do not select radio button of Gender and click on register button	NULL	Select one of these options
TC18	P1	Clicking on register button without selecting Blood Group	Do not select blood group and click on register button	NULL	Please select an item in the list
TC19	P1	Adding invalid Email	Add invalid Email without '@'	Any invalid Email	Please include '@' in the email address
TC20	P1	Adding invalid phone no.	Adding phone no. more or less than 10 and click on register button	Adding more or less values	Phone number must contain 10 digits
TC21	P1	Clicking on register button without selecting Time slot	Do not select Time slot and click on register button	NULL	Select one of these options
TC22	P1	To verify if registration is successful with all valid fields	Entering valid Name, Contact number and Email and selecting Gender and choosing Time slot	Valid inputs	Registration complete and goes to Response has been recorded successfully page

Table no. 5.4, Table name: Test case table

CHAPTER 6:

RESULT AND DISCUSSION

6.1) Test Reports:

Test case no.	Test case/ Objective	Step/Procedure	Input test data	Expected result	Actual result	Pass /Fail
TC 01	Register with all fields blank.	Leave all the fields blank and click on Next Button	NULL	“Please fill all the fields.”	“Please fill all the fields.”	Fail
TC 02	Adding numeric value to Name	Enter a number and click on Next Button	Any numeric value	“First Name field must only contain alphabets”	“First Name field must only contain alphabets”	Fail
TC 03	Adding white space to Organizer Name	Enter white space in Organizer Name and click on Next button	Adding white space	“Name must not contain white spaces”	“Name must not contain white spaces”	Fail
TC 04	Adding invalid phone no.	Adding phone no. more or less than 10 and click on Register button	Adding more or less values	“Phone number must contain 10 digits”	“Phone number must contain 10 digits”	Fail
TC 05	To assign the password	Entering the password less than the defined range and click on Next Button	Any range less than 8	“Password should contain at least 8 characters”	“Password should contain at least 8 characters”	Fail
TC 06	To verify password	Enter a password different from the assigned password and click Next	Password different from the assigned password	“Password do not match”	“Password do not match”	Fail

TC 07	To verify if registration is successful with all valid fields	Entering valid, Name, Contact No. , Password, Confirm Password and click on Next Button	Valid inputs	“Registration complete and goes to “Campaign Details form”	“Registration complete and goes to “Campaign Details form”	Pass
TC 08	Logout	To Logout	NULL	“Goes back to the Login page”	“Goes back to the Login page”	Pass
TC 09	Leave form of Camp details form with all fields blank.	Leave all the fields blank and click on Register Button	NULL	“Please fill all the fields.”	“Please fill all the fields.”	Fail
TC 10	Adding numeric value to Camp Name	Enter a number and click on Register Button	Any numeric value	“Campaign Name field must only contain alphabets”	“Campaign Name field must only contain alphabets”	Fail
TC 11	Adding numeric value to Venue	Enter numeric venue and click on register button	Any numeric value	“Venue must contain only alphabets”	“Venue must contain only alphabets”	Fail
TC 12	Selecting past Date other than today	Trying to select previous dates	Previous date	“Disabled previous date”	“Disabled previous date”	Fail
TC13	Clicking on Register button without entering to timeslot	Do not enter slot and click on register button	NULL	“Please fill out this field”	“Please fill out this field”	Fail
TC 13	To verify if camp registration is successful	Entering valid Name, Contact number and Email and selecting Gender	Valid inputs	“Registration complete and goes to Response has been	“Registration complete and goes to Response has been	Pass

	with all valid fields	and choosing Time slot		recorded successfully page”	recorded successfully page”	
TC 14	Leave all fields blank in form of donors	Leave all the fields blank and click on Register.	NULL	“Please fill all the fields.”	“Please fill all the fields.”	Fail
TC 15	Adding numeric value to Donor Name	Enter a number and click on Register Button	Any numeric value	“Donor Name field must only contain alphabets”	“Donor Name field must only contain alphabets”	Fail
TC 16	Clicking on register button without selecting Gender	Do not select radio button of Gender and click on Register Button	NULL	“Select one of these options”	“Select one of these options”	Fail
TC 17	Clicking on register button without selecting Blood Group	Do not select drop down list of blood group and click on Register Button	NULL	Please select an item in the list		Fail
TC 18	Entering invalid Email	Enter invalid email without @ and click on Register Button	Any invalid email	“Please include ‘@’ in the email address”	“Please include ‘@’ in the email address”	Fail
TC 19	Adding invalid phone no.	Adding phone no. more or less than 10 and click on Register Button	Adding more or less values	“Phone number must contain 10 digits”	“Phone number must contain 10 digits”	Fail
TC 20	To verify if “response has been recorded page” show	Don't choose any time slot and click on Register Button	NULL	“Please select one of the options”	“Please select one of the options”	Fail

	up without selecting any option of the Time Slot					
TC 21	To verify if registration is successful with all valid fields	Entering valid Name, Contact number and Email and selecting Gender and choosing Time slot	Valid inputs	Registration complete and goes to Response has been recorded page	Registration complete and goes to Response has been recorded page	Pass

Table no. 6.1, Table name: Test report

Form of organizer

- Fields left blank

The screenshot shows a web application interface for 'BDC ORGANIZER'. A user is filling out a form titled 'Details Of Organizer'. The fields are as follows:

Field	Value	Validation Status
Enter Your Name	Name..	Valid
Contact Number		Invalid (highlighted with a red border)
Password	Password input	Valid
Confirm Password	Password input	Valid

A blue 'Submit' button is at the bottom of the form. A validation message 'Please fill out this field.' with an exclamation mark icon is displayed next to the empty contact number field.

- Name containing numbers

The screenshot shows a web application interface for 'BDC ORGANIZER'. A user is filling out a form titled 'Details Of Organizer'. The fields are as follows:

Field	Value	Validation Status
Enter Your Name	ABC123	Invalid (highlighted with a red border)
	*Only alphabets are allowed	Validation message
Contact Number	1234567890	Valid
Password	*****	Valid
Confirm Password	*****	Valid

A blue 'Submit' button is at the bottom of the form. A validation message 'Only alphabets are allowed' with an asterisk icon is displayed next to the invalid name entry.

- Name containing white spaces

The screenshot shows a user interface for 'BDC ORGANIZER'. At the top left is the application title. On the right side, there is a user profile icon. The main area contains a form titled 'Details Of Organizer'. It includes fields for 'Enter Your Name' (containing 'ABC XY'), 'Contact Number' (containing '1234567890'), 'Password' (containing '*****'), and 'Confirm Password' (containing '*****'). A blue 'Submit' button is at the bottom. A red validation message, '*Name must not contain whitespaces', is displayed next to the name input field.

- Contact no less than 10

The screenshot shows a user interface for 'BDC ORGANIZER'. At the top left is the application title. On the right side, there is a user profile icon. The main area contains a form titled 'Details Of Organizer'. It includes fields for 'Enter Your Name' (containing 'ABC'), 'Contact Number' (containing '123456'), 'Password' (containing '*****'), and 'Confirm Password' (containing '*****'). A blue 'Submit' button is at the bottom. A red validation message, '*Number must contain 10 digits', is displayed next to the contact number input field.

- **Password must be greater than 6 and lesser than 8**

The screenshot shows a user interface for 'BDC ORGANIZER'. At the top left is the logo 'BDC ORGANIZER' with a small profile icon. On the right is a user profile icon. The main area has a title 'Details Of Organizer'. It contains four input fields: 'Enter Your Name' with value 'ABC', 'Contact Number' with value '1234567890', 'Password' with value '..', and 'Confirm Password' with value '..'. Below the password field is a red error message: '*Password must be min 6 characters long and max 8 characters!'. A blue 'Submit' button is at the bottom.

- **Password do not match**

The screenshot shows a similar user interface for 'BDC ORGANIZER'. The 'Details Of Organizer' form includes 'Enter Your Name' ('ABC'), 'Contact Number' ('1234567890'), 'Password' ('.....'), and 'Confirm Password' ('..'). A red error message ' *Password do not match!' is displayed below the password fields. A blue 'Submit' button is at the bottom.

- **Valid inputs**

The screenshot shows a web application interface titled "BDC ORGANIZER". A user profile icon is visible in the top right corner. The main content area displays a form titled "Details Of Organizer". It contains four input fields: "Enter Your Name" with value "ABC", "Contact Number" with value "1234567890", "Password" with value "*****", and "Confirm Password" with value "*****". A blue "Submit" button is located below the password fields.

Campaign details form

- **Fields left blank**

The screenshot shows a web application interface titled "BDC ORGANIZER". A user profile icon is visible in the top right corner. The main content area displays a form titled "Campaign Details". It contains four input fields: "Enter Campaign Name" (empty), "Enter Date" with value "dd-mm-yyyy", "Enter Time" with value "10 AM to 3 PM", and "Enter Venue" with value "Andheri". A tooltip message "Please fill out this field." appears above the empty "Campaign Name" input field. Below this section is another titled "Timeslots For Donors" with three input fields: "Enter First Time Slot" with value "7:30 AM to 10:30 AM", "Enter Number For First Time Slot" (empty), and "Enter Second Time Slot" with value "10:30 AM to 12:30 AM".

- **Adding number in name field**

The screenshot shows the 'Campaign Details' section with the following fields:

- Enter Campaign Name: 123 (with validation error: *Only alphabets are allowed)
- Enter Date: 16-03-2022
- Enter Time: 10 AM to 3 PM
- Enter Venue: Vileparle

The 'Timeslots For Donors' section contains:

- Enter First Time Slot: 1
- Enter Number For First Time Slot: 1
- Enter Second Time Slot: 1

- **Previous dates disabled**

The screenshot shows the 'Campaign Details' section with the following fields:

- Campaign Name: nilaya
- Enter Date: 14-02-2022 (highlighted with a blue border, indicating it's a required field)
- Enter Time: 10 AM to 3 PM
- Enter Venue: vileparle

A validation message is displayed next to the 'Enter Date' field: ! Value must be 15-03-2022 or later.

The 'Timeslots For Donors' section contains:

- Enter First TimeSlot: 8:30 AM to 9:30 AM
- Enter Number: 17
- Enter Second TimeSlot: 9:30 AM to 10:30 AM
- Enter Number: 40
- Enter Third TimeSlot: 10:30 AM to 12:30 PM

BDC ORGANIZER

Campaign Details

Enter Campaign Name	ABC
Enter Date	<input type="text" value="dd-mm-yyyy"/> March, 2022
Enter Time	
Enter Venue	
Timeslots For Done	
Enter First Time Slot	1565
Enter Number For First Time Slot	1
Enter Second Time slot	1

- Adding number in Venue name

BDC ORGANIZER

Campaign Details

Enter Campaign Name	ABC
Enter Date	15-03-2022
Enter Time	10 AM to 3 PM
Enter Venue	123 <small>*Only alphabets are allowed</small>

- Not entering time slot

BDC ORGANIZER

Timeslots For Donors

Enter First Time Slot: 7:30 AM to 10:30 AM

Enter Number For First Time Slot: 1 ! Please fill out this field.

Enter Second Time Slot: 1

Enter Number For Second Time Slot: 1

Enter Third TimeSlot: 1

Enter Number For Third Time Slot: 1

Submit

- No of donors in timeslot left blank

BDC ORGANIZER

Timeslots For Donors

Enter First Time Slot: 1 These Number Of People Only Can Register For This Slot

Enter Number For First Time Slot: Enter Max No. Of Donors Can Donate For First Slot ! Please fill out this field.

Enter Second Time Slot: 1

Enter Number For Second Time Slot: 1

Enter Third TimeSlot: 1

Enter Number For Third Time Slot: 1

Submit

- **Valid inputs**

The screenshot displays a user interface for a campaign organizer. At the top, there is a dark header bar with the text "BDC ORGANIZER". Below the header, there is a light blue navigation bar with a user profile icon. The main content area contains two forms.

Campaign Details

Enter Campaign Name	ABC
Enter Date	15-03-2022
Enter Time	10 AM to 3 PM
Enter Venue	Vileparle

Timeslots For Donors

Enter First Time Slot	1
Enter Number For First Time Slot	1
Enter Second Time Slot	1
Enter Number For Second Time Slot	1
Enter Third Time Slot	1
Enter Number For Third Time Slot	1

Submit

- After successful submission

BDC ORGANIZER

Request Pending...

Wait For Admin's Approval !
You can check the status of camp [here](#)

Validation of donor form

- Leave all fields blank

BDC ORGANIZER

Registration Form

Click Me

Enter Your Name ! Please fill out this field.

Select Gender Male Female

Select Blood Group

Enter Email

Enter Contact No

Choose Timeslot

First Slot	<input type="radio"/> 10AM to 11AM * ⁵⁰
Second Slot	<input type="radio"/> 11AM to 1PM * ⁴⁰
Third Slot	<input type="radio"/> 1PM to 5PM * ¹⁰⁰

- Adding number in name field

The screenshot shows a registration form titled "Registration Form". At the top, there is a button labeled "Click Me". Below it, a field for "Enter Your Name" contains the value "12345". A red validation message "Only alphabets are allowed" is displayed below the input field. The form also includes fields for "Select Gender" (radio buttons for Male and Female, with Male selected), "Select Blood Group" (dropdown menu showing "O+"), "Enter Email" (input field containing "sa@gmail.com"), and "Enter Contact No" (input field containing "1234567890"). Below the main form, a section titled "Choose Timeslot" lists three time slots: First Slot (radio button for "10AM to 11AM" is selected), Second Slot (radio button for "11AM to 1PM" is selected), and Third Slot (radio button for "1PM to 5PM" is selected).

- Not selecting gender

The screenshot shows a registration form titled "Registration Form". The "Enter Your Name" field contains the value "Jay". The "Select Gender" field has a radio button for "Male" selected. A red validation message "Please select one of these options." is displayed in a tooltip over the gender selection area. The form also includes fields for "Select Blood Group" (dropdown menu showing "A+"), "Enter Email" (input field containing "sa@gmail.com"), and "Enter Contact No" (input field containing "1234567890"). Below the main form, a section titled "Choose Timeslot" lists three time slots: First Slot (radio button for "10AM to 11AM" is selected), Second Slot (radio button for "11AM to 1PM" is selected), and Third Slot (radio button for "1PM to 5PM" is selected).

- Not selecting blood group

The screenshot shows a registration form with the following fields:

- Enter Your Name:** Jay
- Select Gender:** Male (radio button selected)
- Select Blood Group:** A dropdown menu labeled "Select blood group" is open, showing the placeholder "Enter Email Here..". A validation message "Please select an item in the list." is displayed next to the dropdown.
- Enter Email:** Enter Email Here..
- Enter Contact No:** Contact No

Below the form, there is a section titled "Choose Timeslot" with three options:

- First Slot:** 10AM to 11AM *⁴⁹
- Second Slot:** 11AM to 1PM *⁴⁰
- Third Slot:** 1PM to 5PM *¹⁰⁰

- Email validation

The screenshot shows a registration form with the following fields:

- Enter Your Name:** Jay
- Select Gender:** Male (radio button selected)
- Select Blood Group:** A dropdown menu labeled "O+" is open.
- Enter Email:** Enter Email Here..
- Enter Contact No:** Contact No

A validation message "Please fill out this field." is displayed next to the "Enter Contact No" input field.

BDC ORGANIZER

Registration Form

Click Me

Enter Your Name: Jay

Select Gender: Male Female

Select Blood Group: O+

Enter Email: jay

Enter Contact No: Contact No ! Please include an '@' in the email address. 'jay' is missing an '@'.

This screenshot shows a registration form with several fields. The 'Enter Email' field contains 'jay' and has a validation message: '! Please include an '@' in the email address. 'jay' is missing an '@''. The 'Enter Contact No' field is empty and also has a validation message: '! Please fill out this field.' The 'Select Gender' section shows 'Male' selected. The 'Select Blood Group' dropdown is set to 'O+'. The 'Enter Your Name' field contains 'Jay'. A 'Click Me' button is visible at the top right of the form area.

• Contact no

BDC ORGANIZER

Registration Form

Click Me

Enter Your Name: Jay

Select Gender: Male Female

Select Blood Group: O+

Enter Email: jay@gmail.com

Enter Contact No: Contact No ! Please fill out this field.

Choose Timeslot

First Slot 10AM to 11AM *⁴⁹

Second Slot 11AM to 1PM *⁴⁰

Third Slot 1PM to 5PM *¹⁰⁰

This screenshot shows a registration form with several fields. The 'Enter Contact No' field is empty and has a validation message: '! Please fill out this field.'. The 'Select Blood Group' dropdown is set to 'O+'. The 'Enter Your Name' field contains 'Jay'. A 'Click Me' button is visible at the top right of the form area. Below the form, there is a section titled 'Choose Timeslot' with three options: 'First Slot' (10AM to 11AM), 'Second Slot' (11AM to 1PM), and 'Third Slot' (1PM to 5PM). The first slot is marked with a superscript note: *⁴⁹.

- Not selecting time slot

The screenshot shows a user interface for a blood donation organizer. At the top left is a dark header bar with the text "BDC ORGANIZER". Below it is a main content area with several input fields:

- "Select Gender" with radio buttons for "Male" (selected) and "Female".
- "Select Blood Group" with a dropdown menu showing "O+".
- "Enter Email" with the value "jay@gmail.com".
- "Enter Contact No" with the value "1234567890".

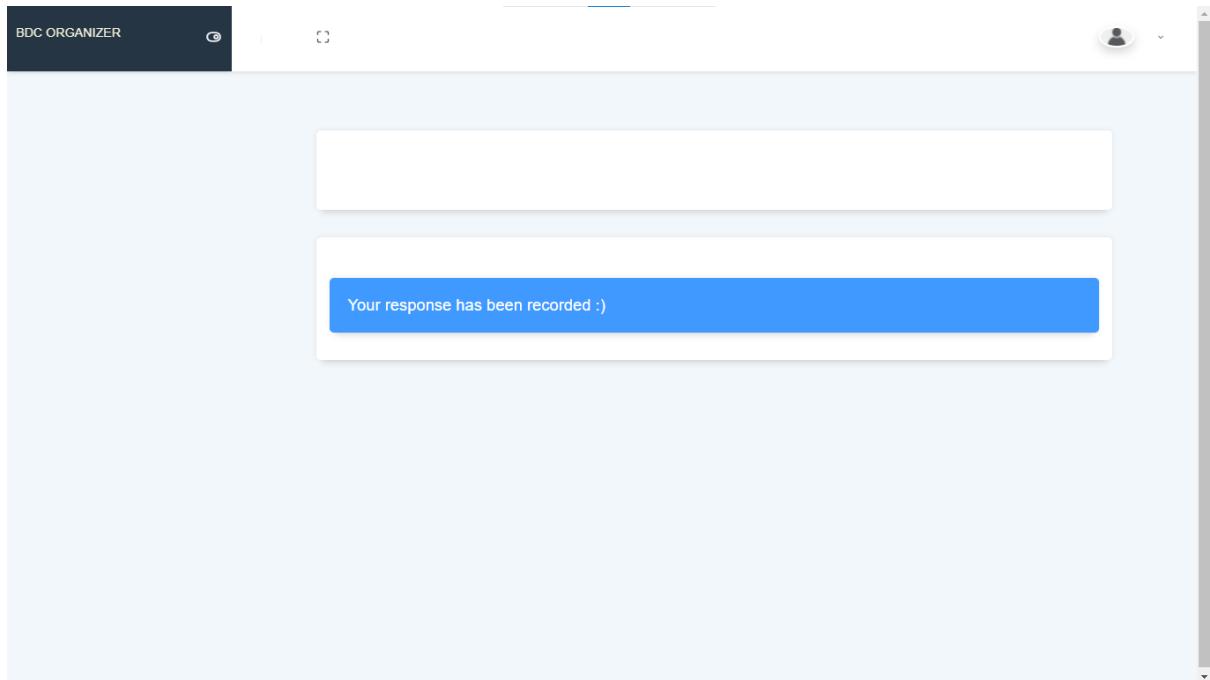
Below these fields is a section titled "Choose Timeslot". It contains three time slot options:

- "First Slot": A radio button next to "10AM to 11AM" with a note "*49".
- "Second Slot": A radio button next to "11AM to 1PM" with a note "*40".
- "Third Slot": A radio button next to "1PM to 5PM" with a note "*100".

A prominent validation message "Please select one of these options." is displayed in a yellow-bordered box over the first slot's radio button. At the bottom of the "Choose Timeslot" section is a blue "Submit" button.

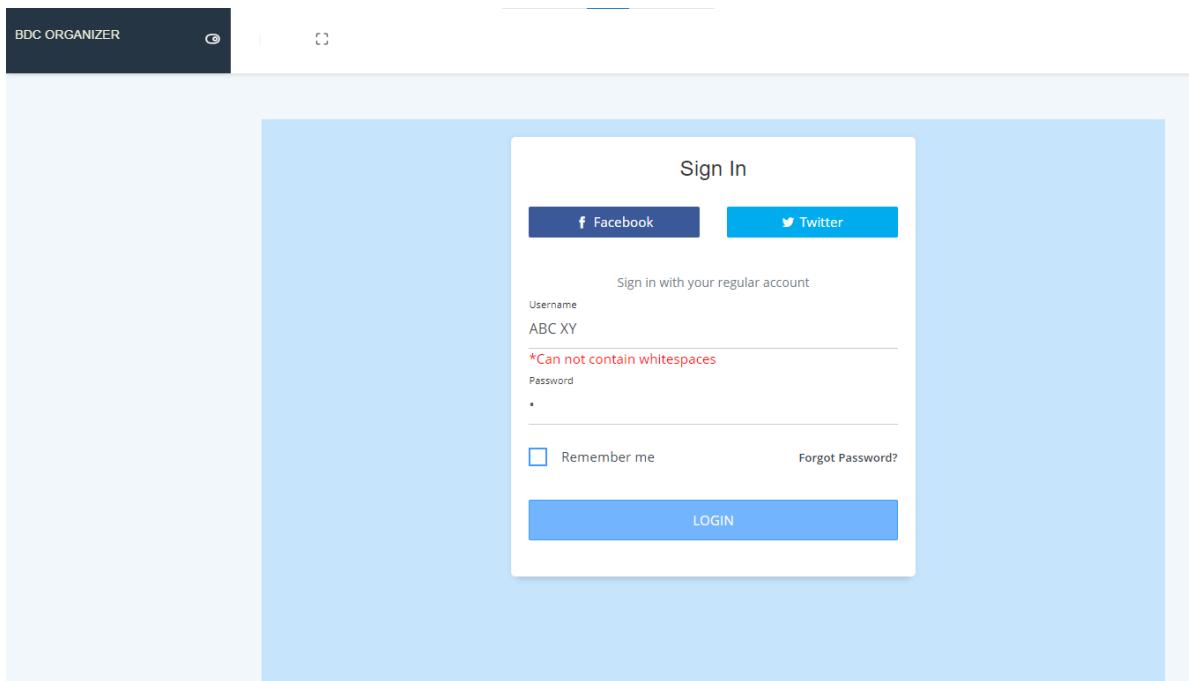
- Valid inputs

This screenshot shows the same web form as the previous one, but with valid inputs. The "Second Slot" radio button is now selected, indicating a valid choice has been made. All other fields (Gender, Blood Group, Email, Contact Number) remain the same as in the first screenshot.

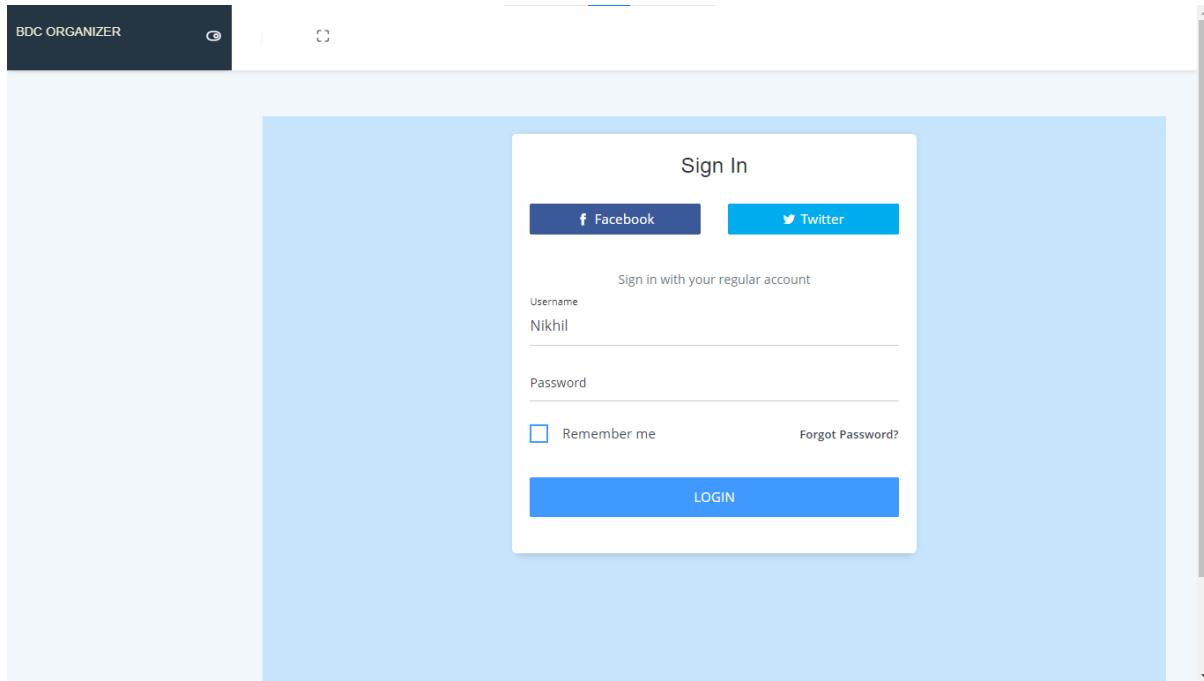


Login and logout page of Organizer

- Whitespace in Name field



- **Valid input**



The screenshot shows the BDC ORGANIZER application's "Donors List" page. On the left, a dark sidebar contains a "Navigation" menu with options: "Your Camp", "Donors List" (which is currently selected), "Remind Everyone", "Announce Something", and "Sorted Donors details". The main content area is titled "Donors List" and features a table with one row of data. The table columns are: #, Donor Name, Gender, Blood Group, Contact No, Timeslot Booked, Email Id, and Operation. The single row of data is: 1, Yash, Male, O+, 1234567891, 8:30 AM to 9:30 AM, yash@gmail.com, with edit and delete icons in the "Operation" column.

6.2) Database design

Donors table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
□ 1	ID 🗝️	int(11)			No	None		AUTO_INCREMENT	Change Drop More
□ 2	Event_Id	int(11)			No	None			Change Drop More
□ 3	Donor_Name	text	utf8mb4_general_ci		No	None			Change Drop More
□ 4	Donor_Gender	text	utf8mb4_general_ci		No	None			Change Drop More
□ 5	Donor_Blood_Group	varchar(5)	utf8mb4_general_ci		No	None			Change Drop More
□ 6	Donor_Email	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
□ 7	Donor_ContactNo	int(11)			No	None			Change Drop More
□ 8	Timeslot_Booked	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
□ 9	Status	text	utf8mb4_general_ci		No	'A'			Change Drop More

Campaign table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
□ 1	ID 🗝️	int(11)			No	None		AUTO_INCREMENT	Change Drop More
□ 2	Organizer_Name	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
□ 3	Organizer_password	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
□ 4	Camp_Name	varchar(70)	utf8mb4_general_ci		No	None			Change Drop More
□ 5	Date	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
□ 6	Time	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
□ 7	Venue	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
□ 8	First_Timeslot	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
□ 9	First_Timeslot_No	int(11)			No	None			Change Drop More
□ 10	Second_Timeslot	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
□ 11	Second_Timeslot_No	int(11)			No	None			Change Drop More
□ 12	Third_Timeslot	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
□ 13	Third_Timeslot_No	int(11)			No	None			Change Drop More
□ 14	Status	varchar(20)	utf8mb4_general_ci		No	A			Change Drop More
□ 15	Added_by	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More

Announcements

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 Id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 Event_Id	int(11)			No	None			Change Drop More
<input type="checkbox"/>	3 msg	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More

Admin

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 ID	int(11)			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 Name	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 Password	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More

CHAPTER 7:

CONCLUSION

7.1) Conclusion

This website can be used by blood donation campaign organizer. It provide easy-to-use interface which will help organizer to conduct camps.

It saves time and reduces work of organizer from making templates and adding participants of respective time slot in WhatsApp groups as we have added necessary features. Editing camp details, filtering donors by their blood groups and time slot they have chosen, reminding donors registered for campaign via E-mails, download the data of donors.

Only motive to build this website is to ease the work of organizer and it will surely help them.

7.2) Limitations

Organizer using E-mail address to remind donor but website is helpless when donor do not own any E-mail address or they do not read their E-mails regularly.

If person submitted the form and mistakenly entered wrong information or might want to switch time slot they have chosen, so they might revisit website and resubmit the form. If they resubmit the form then there will be two slots reserved for the same person.

7.3) Future scope

Promoting every campaign added on website by sending SMS to the people/donors. This website can be used by needy to find blood donors who live around him/her. Needy can also post his/her blood requests and where it is needed with blood group, then website will notify all the donors on the website.

When donor will register sending him Email that he registered. Same Email will be sent when he donated the blood.

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