



Daffodil
International
University

Donate Plasma

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The project report has been submitted in fulfilment of the requirements for the degree of Bachelor of Science in Software Engineering Department.

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APPROVAL

This project titled on “**Donate Plasma**”, submitted by **Sarkar Shahriar Gajnabi (ID-171-35-2008)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

DECLARATION

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

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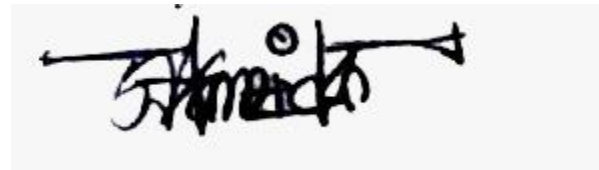
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Abstract

“Donate Plasma” is a web-based application, with purpose to making it easier for people to find donor for plasma. As the cases of covid-19 is surging throughout the country, the need of plasma donor is getting higher every day. People are dying because finding donor manually is very time costly. So, to reduce that time and making it easier to find a donor this web app will be very helpful. People will be able to find donor in their nearest location and contact them easily. Hospitals will also be able to document cured patients as donors from their account and contact them when needed. This will form a donor hub throughout the country. Donors will be notified through this app and they will be able to contact patient accordingly. Users will also be able to sign up themselves as donors by just creating an account on this website.

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Chapter 1:

INTRODUCTION

1.1 OVERVIEW

Location a plasma donor in time is essential as the condition of a covid patient deteriorates rapidly. An admin will be there to verify hospitals that want sign up in this system. Then hospitals will be able to log patients recovering from covid-19 and sign up them as possible donors. In case of need people can search for donors of specific blood group from specific areas. They will be able to send donors a push notification through the website and contact them. Donors will be notified through the system of when and where donation of plasma is needed and contact info. Recovered patients will also be able to sign up as donors but creating an account and make them available as donors.

1.2 PURPOSE

- Finding donors easily
- Connect all the hospitals
- Make a donor database
- Reduce time consumption
- Notifying donors

1.3 BACKGROUND

For a covid patient in need of plasma it is really essential to manage a donor in time. But in this time of crisis, it is really hard for people to track down a donor, even hospitals are not able to provide donors. So there comes the need of a centralized database, from where people will be able to access list of donors. Search for donors accordingly their needs and contact them within the shortest amount of time. So, this need of avoiding these difficulties lead to make this website.

1.4 OBJECTIVES

- Making search for plasma donor easier
- Tracking donors from your preferred area
- Creating a central plasma donor database

➤ Connection all hospitals

1.5 STAKEHOLDERS

In this project there will be mainly two types of stake holders,

Internal Stakeholder: Admin

External Stakeholder: Hospital, User

1.6 PROPOSED SYSTEM

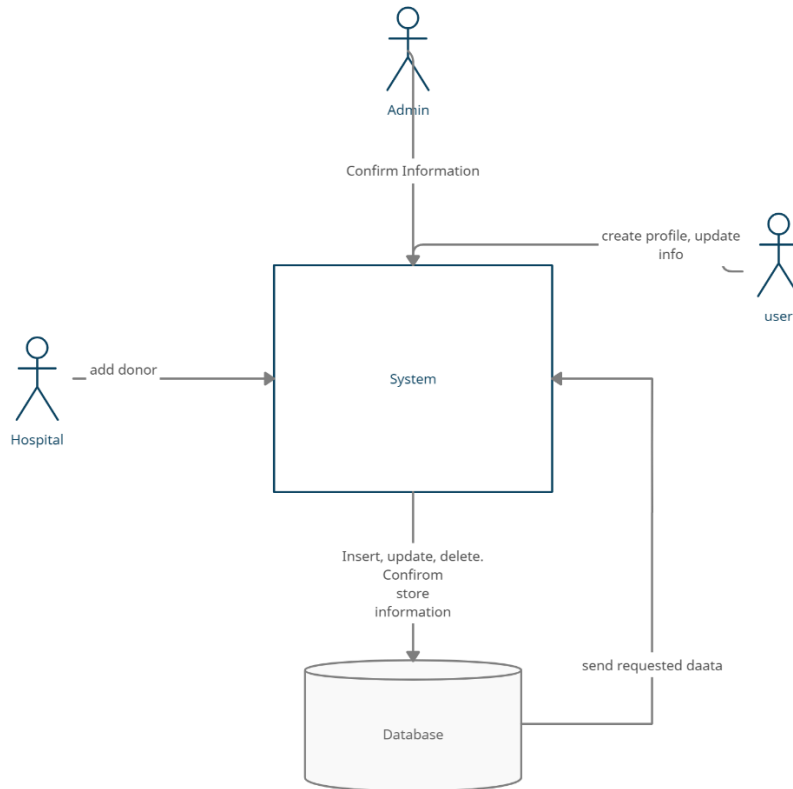


FIG-1.1: SYSTEM

1.7 PROJECT PLAN

Table 1.1: Project Plan

Task name	Resource name	Start	Finish	Duration
Planning		10-01-2021	20-01-2021	10
Requirement		21-01-2021	31-01-2021	11
System design		01-02-2021	14-02-2021	14
Database design		15-02-2021	22-02-2021	8
Development		23-02-2021	29-04-2021	66
Testing		30-04-2021	11-05-2021	12
Implementation		12-05-2021	21-05-2021	10
delivery		23-05-2021	24-05-2021	1

1.8 MILESTONES

Table 1.2: Project Milestones

No	Task Name	Duration
01	Planning	10
02	Requirement gathering and analyzing	11
03	System design	14
04	Database design	8
05	Development	66
06	Testing	12
07	Implementation Task	10
08	Release	1
		132

Chapter 2:

SOFTWARE REQUIREMENT SPECIFICATION

The process of identifying user satisfaction for system is known as Requirement analysis. So, this is the most important part of project management that leads to a successful project.

Some specific requirements for this project are,

- Simplified search system
- On time notification system
- User friendly interface
- Functional and non-functional requirements
- Security

2.1 Functional Requirements

2.1.1 User Registration

Table 2.1 Discussion about user sign up

FR-01	User Sign Up
Description	Users can sign up themselves in the website as donor.
Stakeholder	User, hospital

To login to the system user or hospital have to give valid information.

2.1.2 Hospital Registration

Table 2.2 Discussion about Hospital sign up

FR-02	Hospital Sign Up
Description	Hospitals will apply for creating an account by submitting required document, which will be verified by the Admin.
Stakeholder	Hospital

2.1.3 Login

Table 2.3 Discussion about login

FR-03	Login
Description	Only registered and valid users will be able to login with their credentials.
Stakeholder	Hospital, User

2.1.4 Log out

Table 2.4 Discussion about logout

FR-04	Log out
Description	Those who previously logged in into system can log out.
Stakeholder	Hospital, User, Admin

2.1.5 Search for donor

Table 2.5 Discussion about Searching donor

FR-05	Searching for donor
Description	Users and Hospital can search for donor accordingly
Stakeholder	Hospital, User

2.1.6 Ask for plasma

Table 2.6 Discussion about sending notification

FR-06	Send Notification
Description	Sending out a call to donors for donation for plasma.
Stakeholder	Hospital, Users

2.1.7 Donor Availability

Table 2.7 Discussion about availability as donor

FR-07	Donor availability
Description	Donors can control their availability through their profile that if they available for donation or not.
Stakeholder	User

2.1.8 Check Notification

Table 2.8 Discussion about checking notification

FR-08	Checking Notification
Description	Donor will get notification when someone would ask for donor of his blood group.
Stakeholder	User

2.1.9 Hospitals add donor

Table 2.9 Discussion about hospital adding donor

FR-09	Hospitals Adding donor
Description	Hospitals can create a profile for the cured patients and add them as donors in the system.
Stakeholder	Hospital

Hospital will create profile for users and give it to them after discharge.

2.1.10 Admin Approval for hospital

Table 2.10 Discussion about admin approval

FR-10	Admin Approval
Description	Admin will check hospital credentials, verify them and he can approve or reject them.
Stakeholder	Admin

Hospitals cannot add patient until admin approves their account.

2.2 Non-Functional Requirements

2.2.1 Security

Information has to be authentic. Hospital has to be verified accurately.

2.2.2 Availability

The app will be available 24/7. And to use this user will just need internet connection and a device to connect.

2.2.3 Usability

This app is made keeping a very important fact in mind that user can find donor easily and as early as possible. So its usability will be swift.

2.3 Performance Requirements

This project has to perform simultaneous tasks and queries so it has to be efficient and fast. So its necessary to sustain good performance. And to meet this performance it has to meet the targeted requirements.

2.3.1 Speed and Latency Requirements

Table 2.11 Discussion about speed and latency requirements

SRL-01	The system will be efficient.
Description	Depending on internet connection and bandwidth this system will work efficiently.
Stakeholder	User, Admin, Hospital

The lower latency will provide better performance. Even average bandwidth speed will help to system work efficiently.

2.3.2 Legibility and Accuracy Requirements

Table 2.12 Discussion about legibility and accuracy

SLR-02	Data accuracy
Description	If user's information is not correct it will not be saved in system. This system is a communication medium, so information has to be authentic.
Stakeholder	User, Hospital

2.3.3 Capability Requirements

Table 2.13 Discussion about Capability Requirements

SLR-03	All inserted data in the system will be managed in a database.
Description	This system will organize all data and present in a suitable form. It will show directly from the database.
Stakeholder	User, Hospital

Information and data handling is dealt here in capability requirements. And this system ensures all data will be saved in database and organized so that it can view data and manipulate it according to the query.

2.3.4 Dependability Requirements

Dependability means how much on a software we can depend on. In this software it is fully checked that it will have no dependability issues.

2.3.5 Reliability and Availability Requirements

Table 2.14 Discussion about reliability and availability requirements

SLR-01	System running on all times.
Description	<ul style="list-style-type: none">• Depending on internet speed system will run faster.• Systems has to be checked periodically.• Bugs are part of system, has to be solved• System must perform tasks within certain amount of time.

To meet the best criteria for all kind of users we have to meet all basic reliability and availability requirements.

2.3.6 Safety Critical Requirements

Hospitals has to be verified. They will have to provide necessary documents while registering in the website which be later verified and confirmed by the Admin.

2.4 Maintainability and Support

Some people will be connected with the project to maintain and support the system.

2.4.1 Supportability requirements and specifications

- **SRS-01:** Operator of the system has to understand system behavior and technical support required.
- **SRS-02:** In case of a system malfunction, the exact point of error has to be identified and resolved.
- **SRS-03:** If the system produces wrong result, then developer must be able to reproduce correct data flow.
- **SRS-04:** Software security maintenance is to be handled by the system operator.

2.4.2 Adaptability Requirements

No specific adaptability requirements required.

2.5 Security Requirements

- **SR-01:** Login credentials of Donor (user).
- **SR-02:** Login credentials of hospital.
- **SR-03:** Admin Login credentials.

2.5.1 Access Requirements

System access will be provided to-

- Admin
- Authenticated users

2.5.2 Integrity Requirements

Important information such as login password are going to be encrypted. These requirements will be helpful in making system more secure.

2.6 Usability and Human Integrity Requirements

Its an easy access system for all end users.

2.7 Data Validation

All data will be tested before validation.

2.8 User Interface Design

Design of the system UI is kept to minimum and user friendly to help user getting their task done without any hassle.

CHAPTER 3:

REQUIREMENT ANALYSIS

3.1 USE CASE DIAGRAM

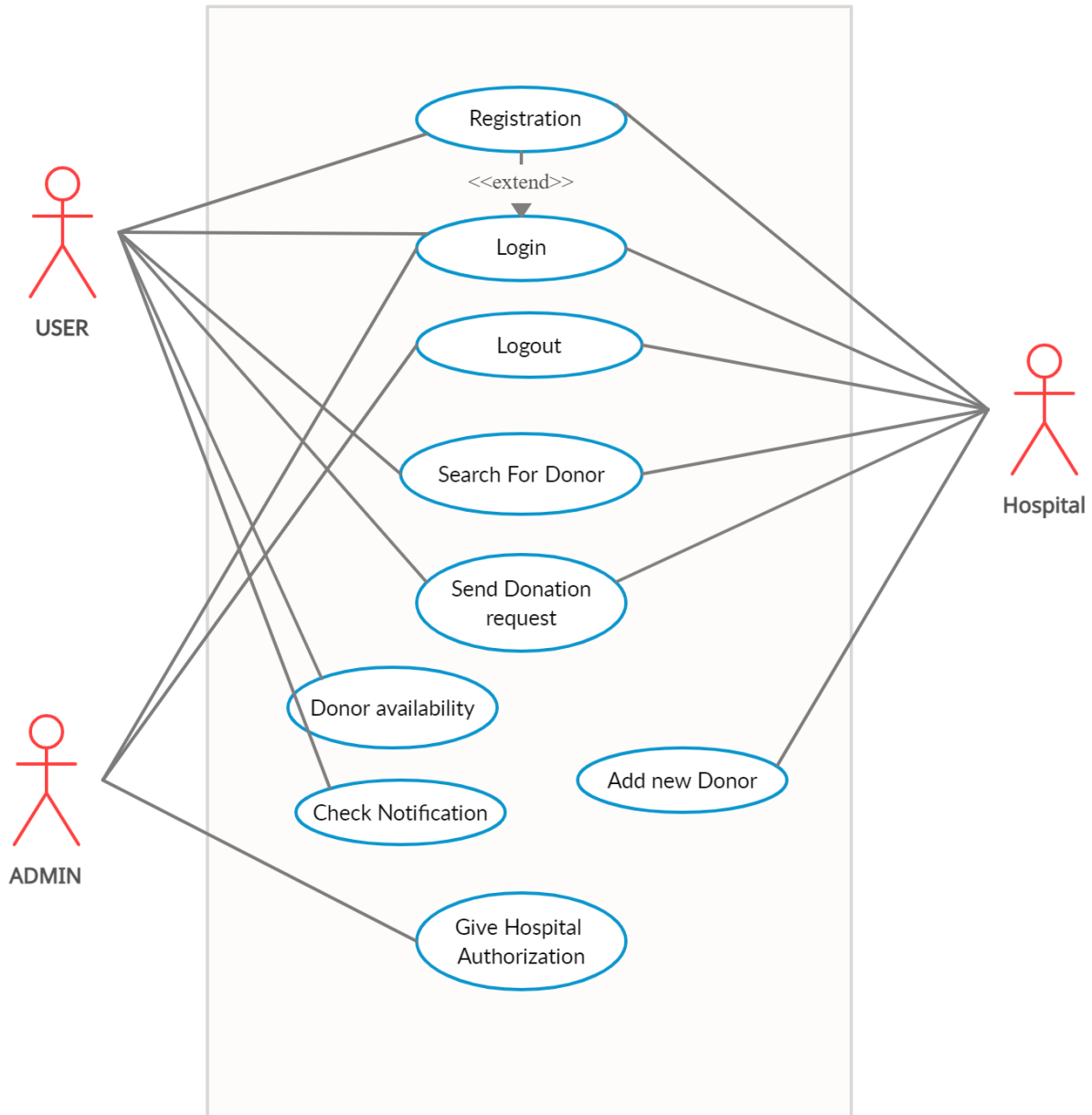


FIG-3.1 USE CASE DIAGRAM

3.2 USE CASE DESCRIPTION

3.2.1 REGISTRATION

Use case title	Registration
Goal	Insert user, hospital information into database
Precondition	A valid username and password
Success and End Condition	Registration successful
Failed End Condition	Cannot store data in database
Primary actors	User, Hospital
Secondary actors	
Triggers	Registration
Description	User have to enter valid information to get registered in to the system
Alternative flows	N/A
Quality requirements	N/A

3.2.2 LOGIN

Use case title	Login
Goal	Getting logged into the system
Precondition	A valid username and password
Success and End Condition	Login Successful
Failed End Condition	Unable to login
Primary actors	User, Hospital, Admin
Secondary actors	
Triggers	Forgot password
Description	User have to enter valid information to login to the system
Alternative flows	N/A
Quality requirements	N/A

3.2.3 Log Out

Use case title	Log Out
Goal	Exit from the user profile
Precondition	Registration and Login has to be done first
Success and End Condition	Logged out from the profile
Failed End Condition	Log Out failed
Primary actors	User, Hospital, Admin
Secondary actors	
Triggers	Home page
Description	To logout any user have to register and login to their profile first.
Alternative flows	N/A
Quality requirements	N/A

3.2.4 Search for Donor

Use case title	Search for donor
Goal	Searching for plasma donor, based on blood group and area.
Precondition	Has to enter website and select area & blood group.
Success and End Condition	Donor list appears
Failed End Condition	Donor list not appeared
Primary actors	User, Hospital
Secondary actors	
Triggers	Donor list
Description	User will be able to search from the home page does to require log in.
Alternative flows	N/A
Quality requirements	N/A

3.2.5 Ask for donation

Use case title	Ask for Donation
Goal	Send donation request to donors of specific blood group and area
Precondition	Has to fill up requirements
Success and End Condition	Notification will be sent to targeted donors
Failed End Condition	Notification will not be sent
Primary actors	User, Hospital
Secondary actors	
Triggers	Notification to donors
Description	User will be able to send donation request to donors.
Alternative flows	N/A
Quality requirements	N/A

3.2.6 Donor availability

Use case title	Donor availability
Goal	Maintaining donor availability status
Precondition	Donor have to setup his profile
Success and End Condition	Donor will be able to control availability
Failed End Condition	Will not be able to control
Primary actors	User
Secondary actors	
Triggers	Will show donor in donor list
Description	Donor will be able to control if they are able to donate or not.
Alternative flows	N/A
Quality requirements	N/A

3.2.7 Check Notification

Use case title	Check Notification
Goal	Donor will be able to check requests for plasma donation.
Precondition	Has to login to user profile
Success and End Condition	Respond to notification
Failed End Condition	Notification will not appear
Primary actors	User (Donor)
Secondary actors	
Triggers	Notifications
Description	Donor will see plasma donation requests.
Alternative flows	N/A
Quality requirements	N/A

3.2.8 Add New Donor

Use case title	Add new donor
Goal	Adding new donor in the system
Precondition	Sign up
Success and End Condition	New donor will be added
Failed End Condition	Donor will not be added
Primary actors	Hospital
Secondary actors	
Triggers	New donor profile
Description	Hospital will be able to add cured covid patients as new donor.
Alternative flows	N/A
Quality requirements	N/A

3.2.9 Give Hospital Authorization

Use case title	Authorize Hospital signup
Goal	Admin will verify hospital signup
Precondition	Hospital have to submit valid document
Success and End Condition	Hospital account verified
Failed End Condition	Hospital signup rejected
Primary actors	Admin
Secondary actors	
Triggers	Hospital account
Description	Hospital will apply for account and admin will verify it
Alternative flows	N/A
Quality requirements	N/A

3.3 ACTIVITY DIAGRAM

3.3.1 REGISTRATION

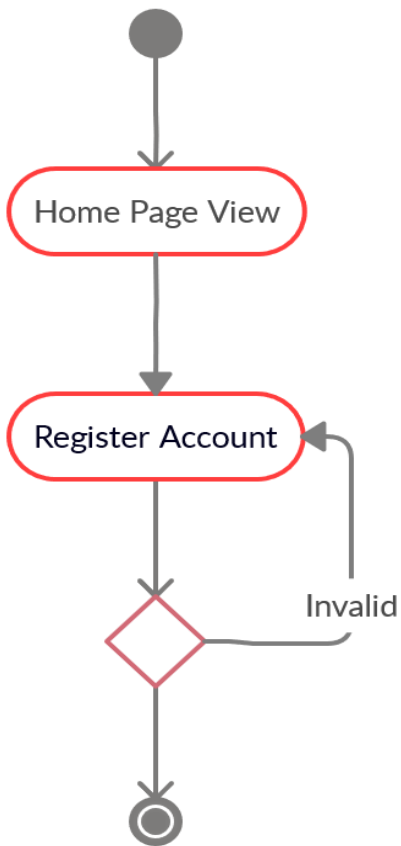


FIG-3.2: REGISTRATION

3.3.2 LOG IN

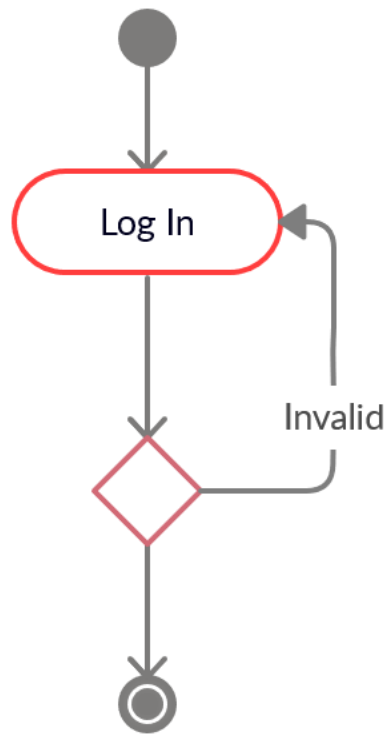


FIG-3.3: LOGIN

3.3.3 SEARCH FOR DONOR

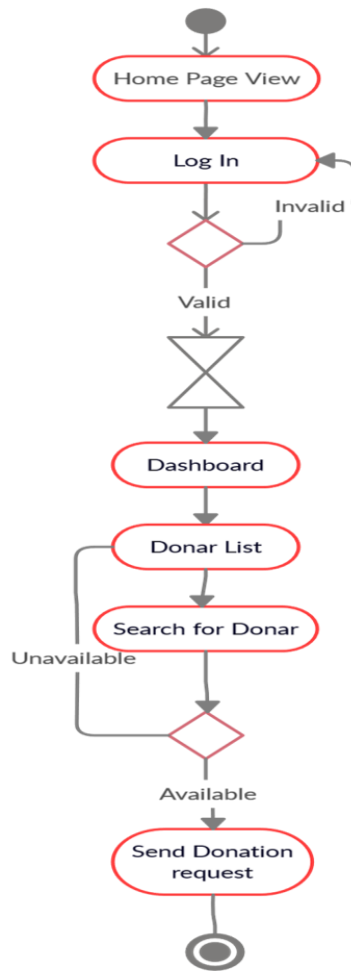


FIG-3.4: SEARCH FOR DONOR

3.3.4 Ask for Donation

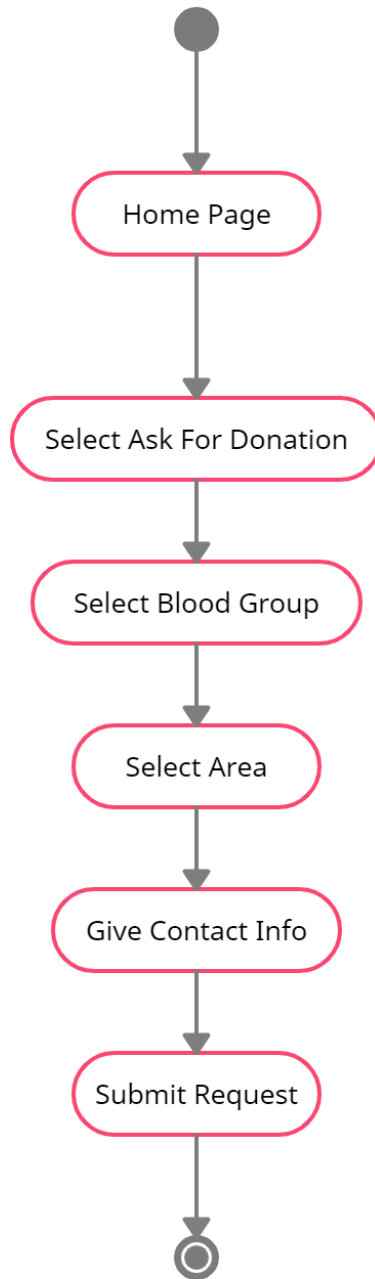


FIG-3.5 Ask for Donation

3.3.5 Add new donor

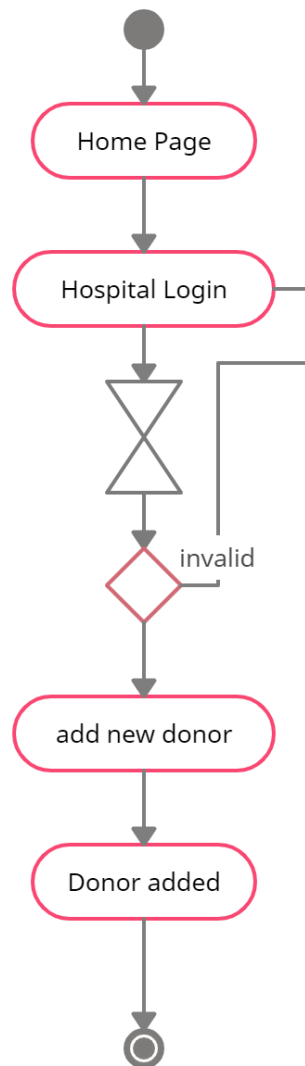


FIG-3.6 Add new Donor

3.3.6 Approve new hospitals

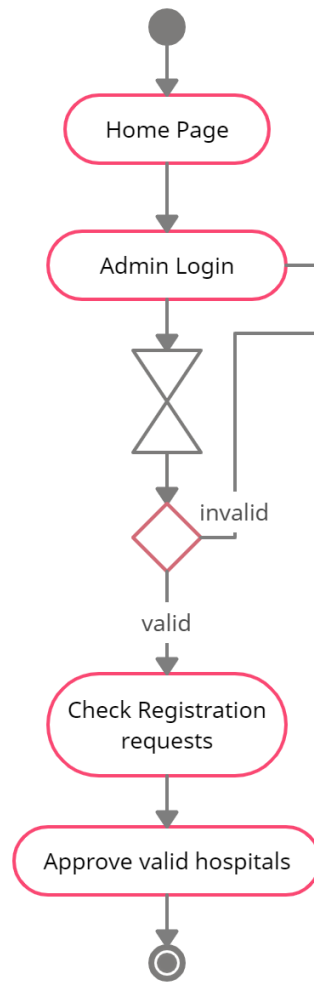


FIG-3.7 Add New Hospital

3.3.7 Availability status

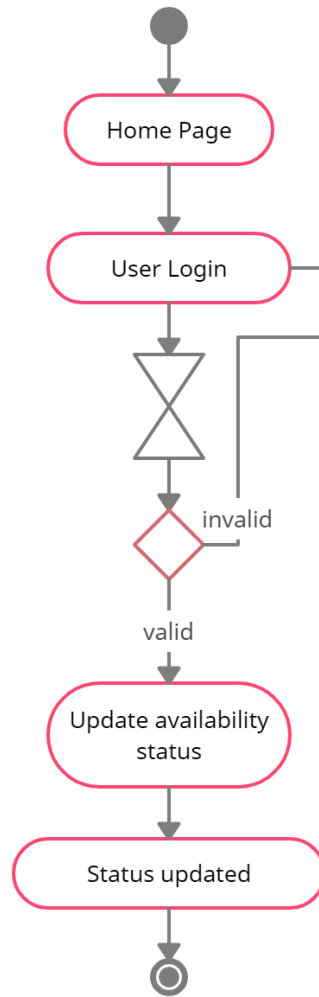


FIG-3.8 Availability Status

3.3.8 Check notification

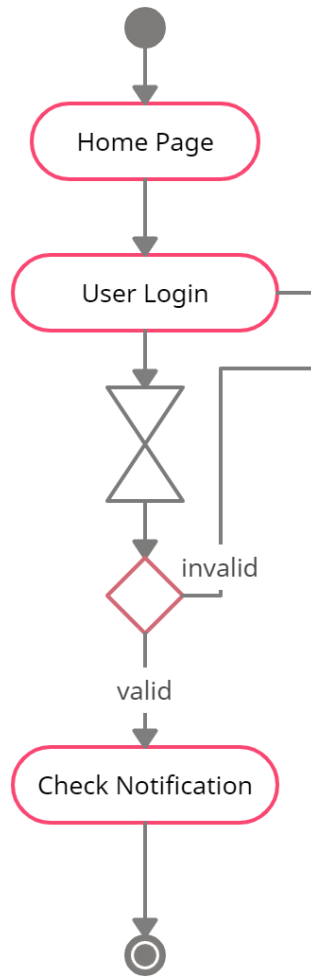


FIG-3.9 Notification Check

3.4 SEQUEENCE DIAGRAMS

3.4.1 Hospital Registration

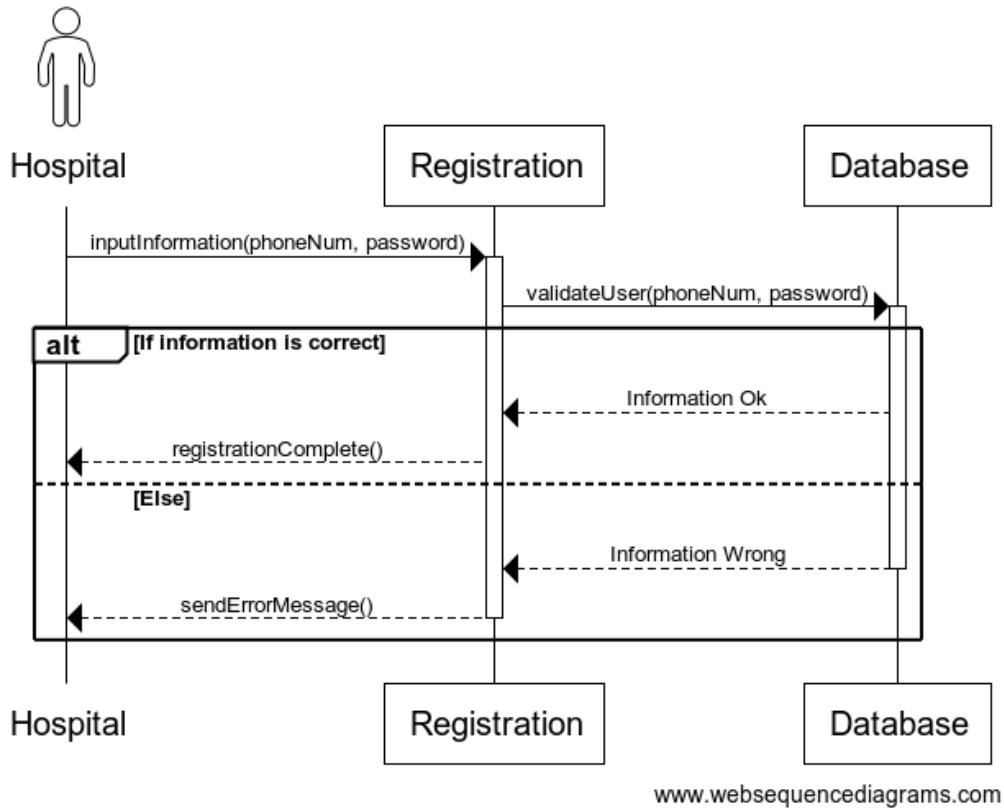


FIG-3.10 Hospital Registration

3.4.2 Hospital Login

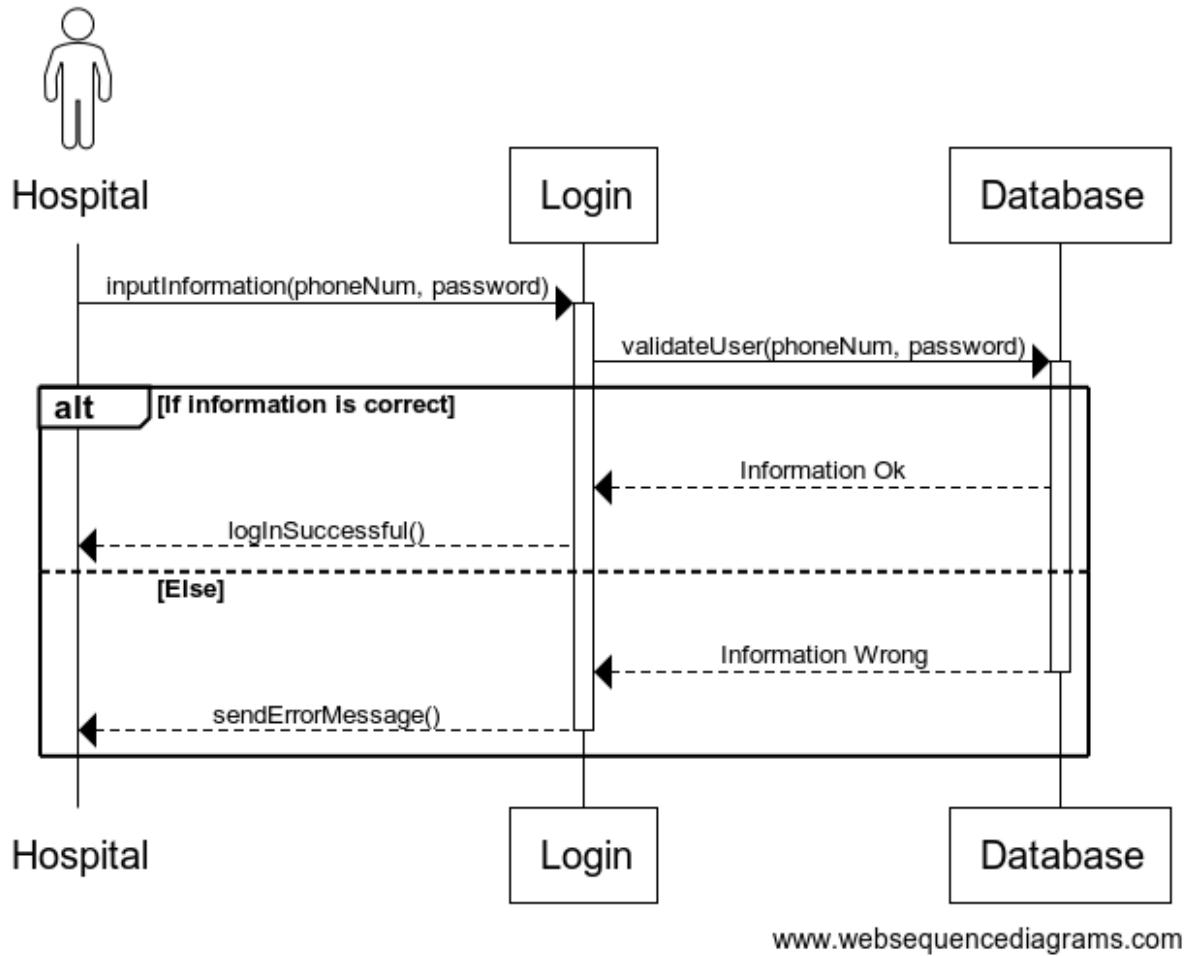
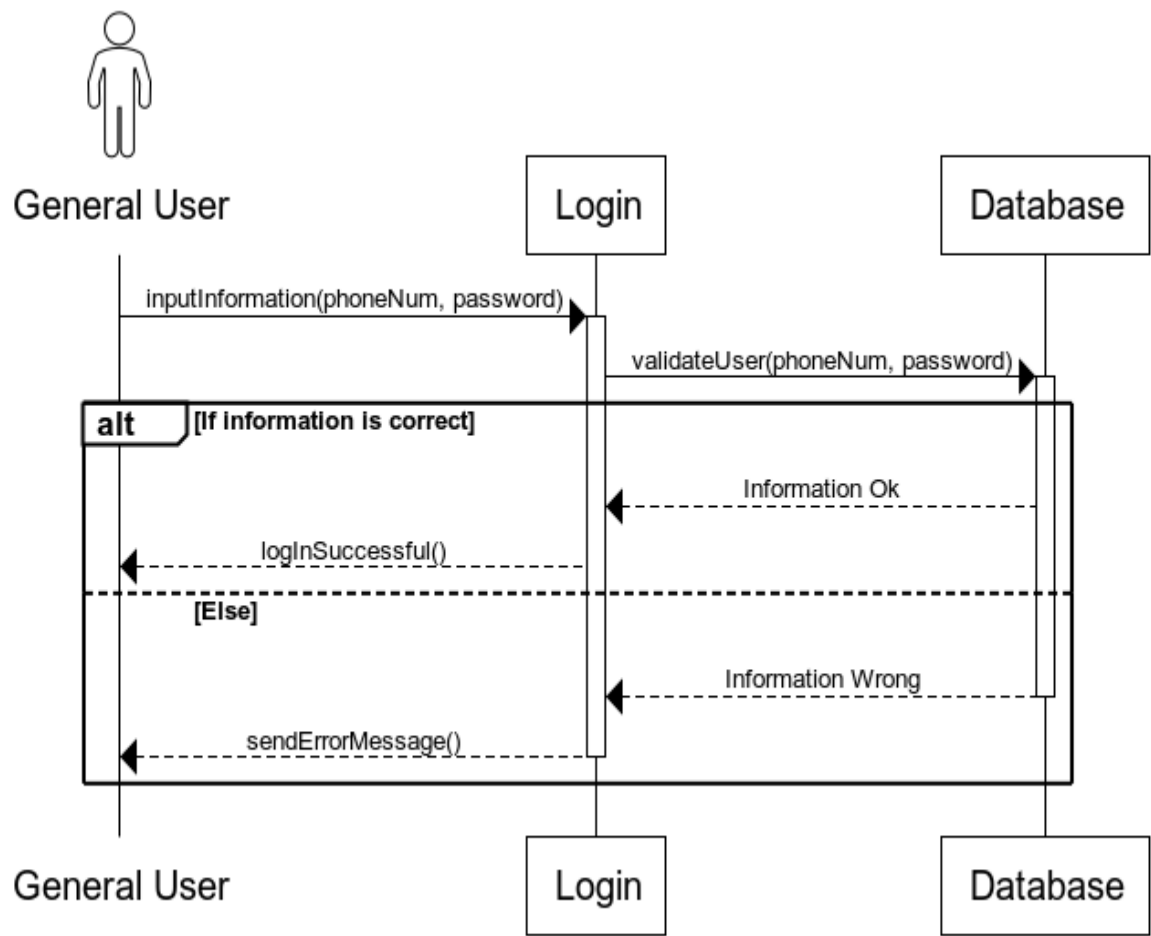


FIG-11 Hospital Login

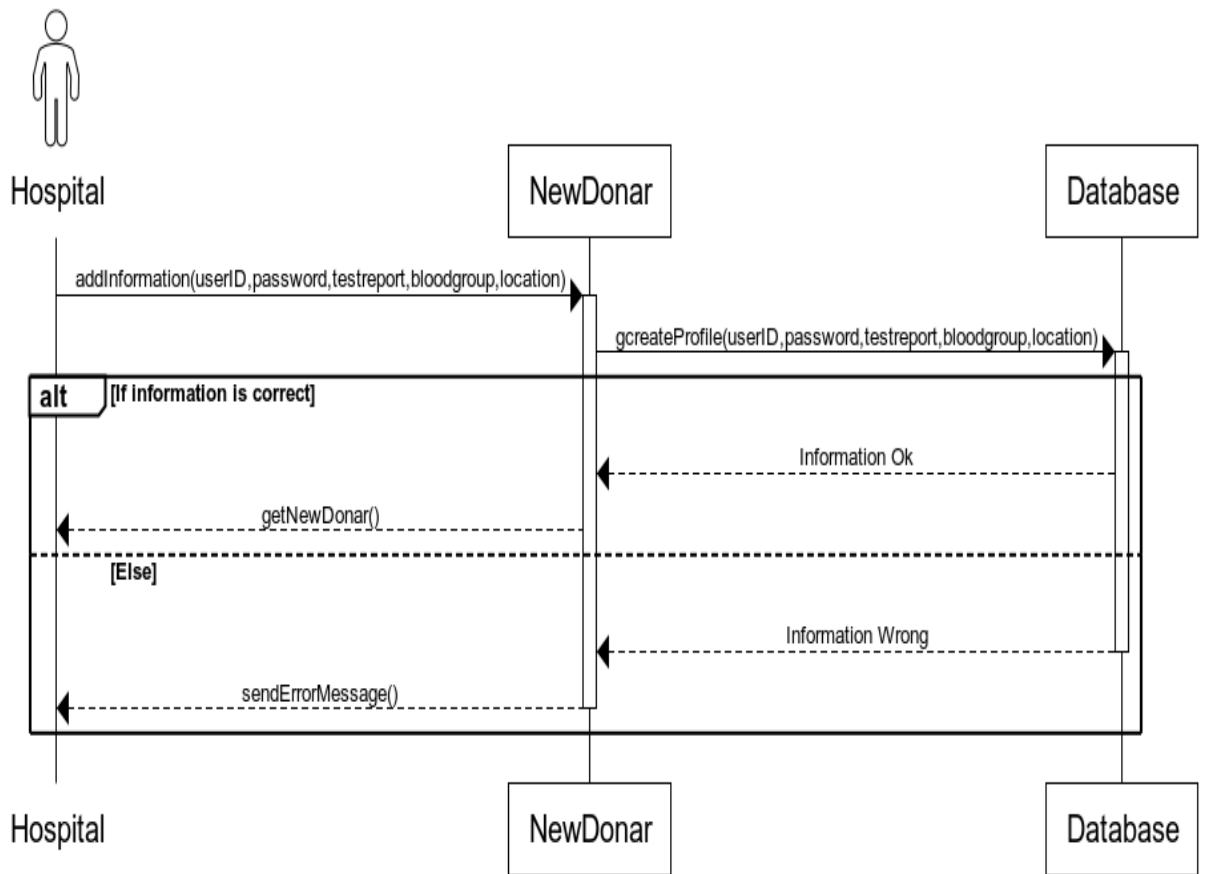
3.4.3 User Login



www.websequencediagrams.com

FIG-3.12 User login

3.4.4 Add new donor



www.websequencediagrams.com

FIG-3.13 Add new donor

3.4.5 Search for Donor

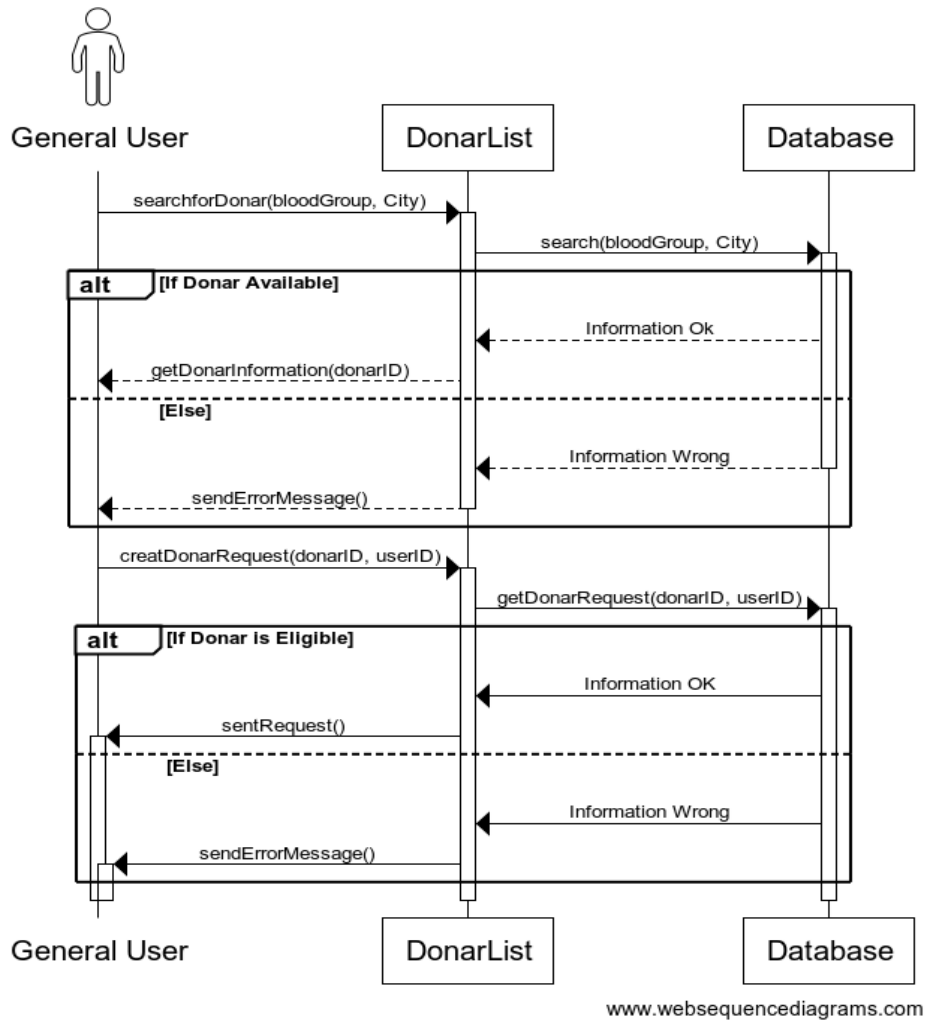


FIG-3.14 Search for donor

3.4.6 Donor availability

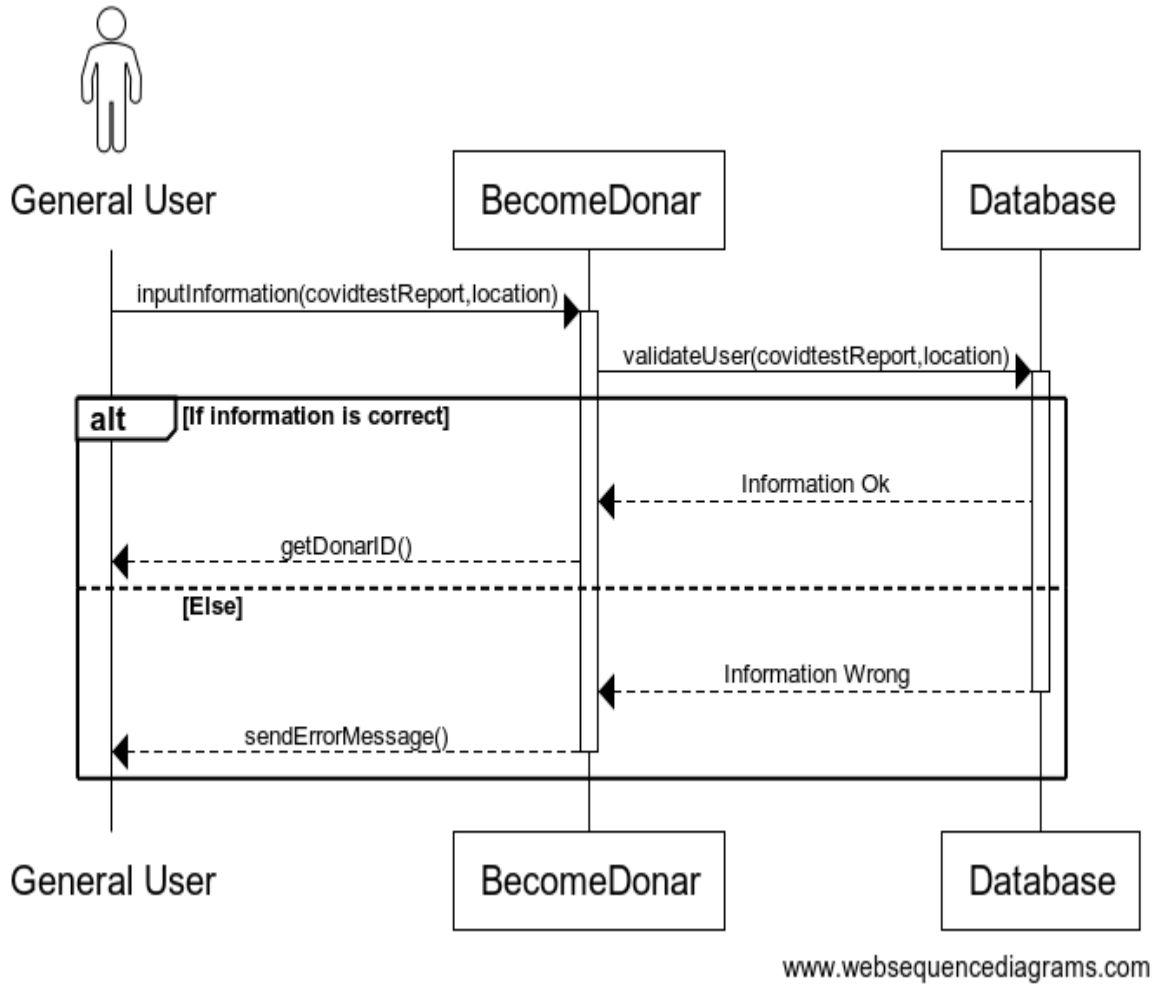


FIG-3.15 Availability

3.4.7 Check Donation Request

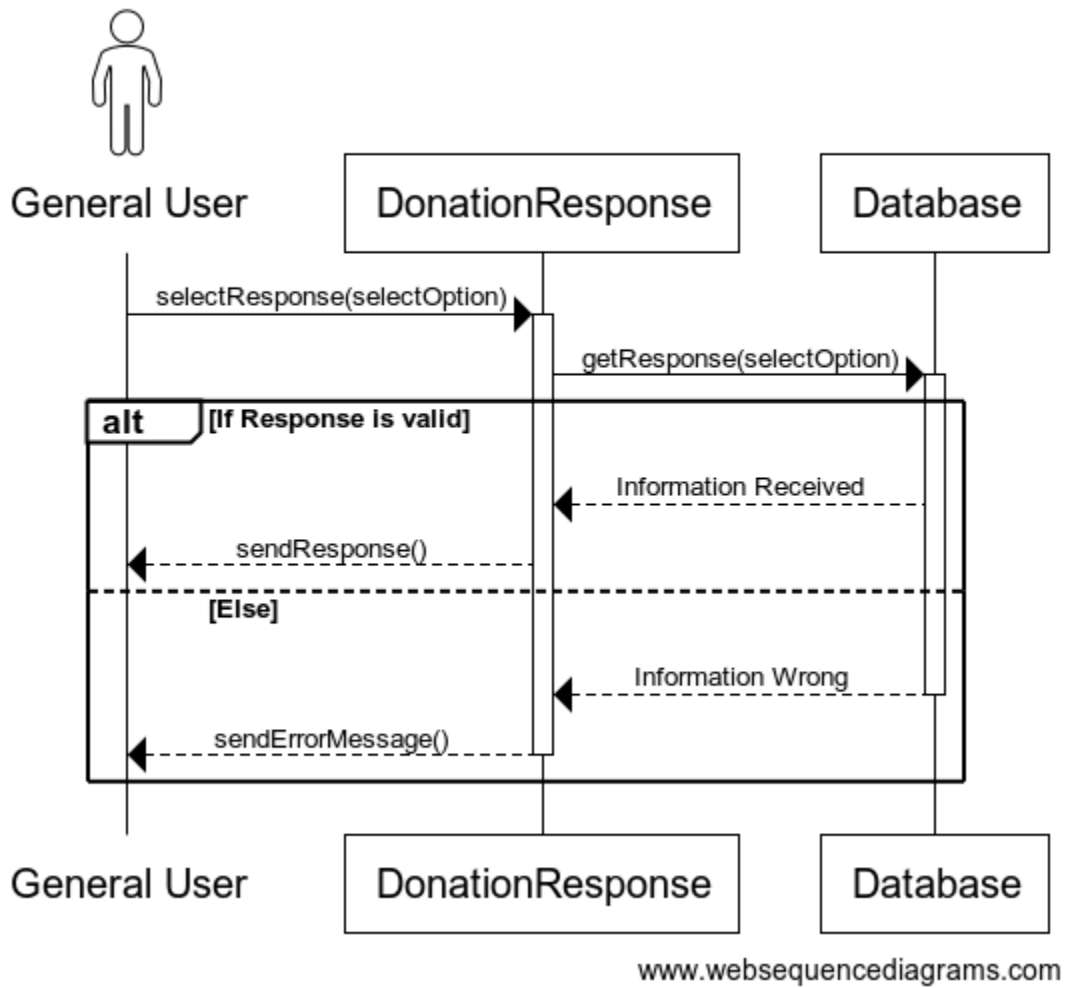


FIG-3.16 Check Donation request

3.5 CLASS DIAGRAM

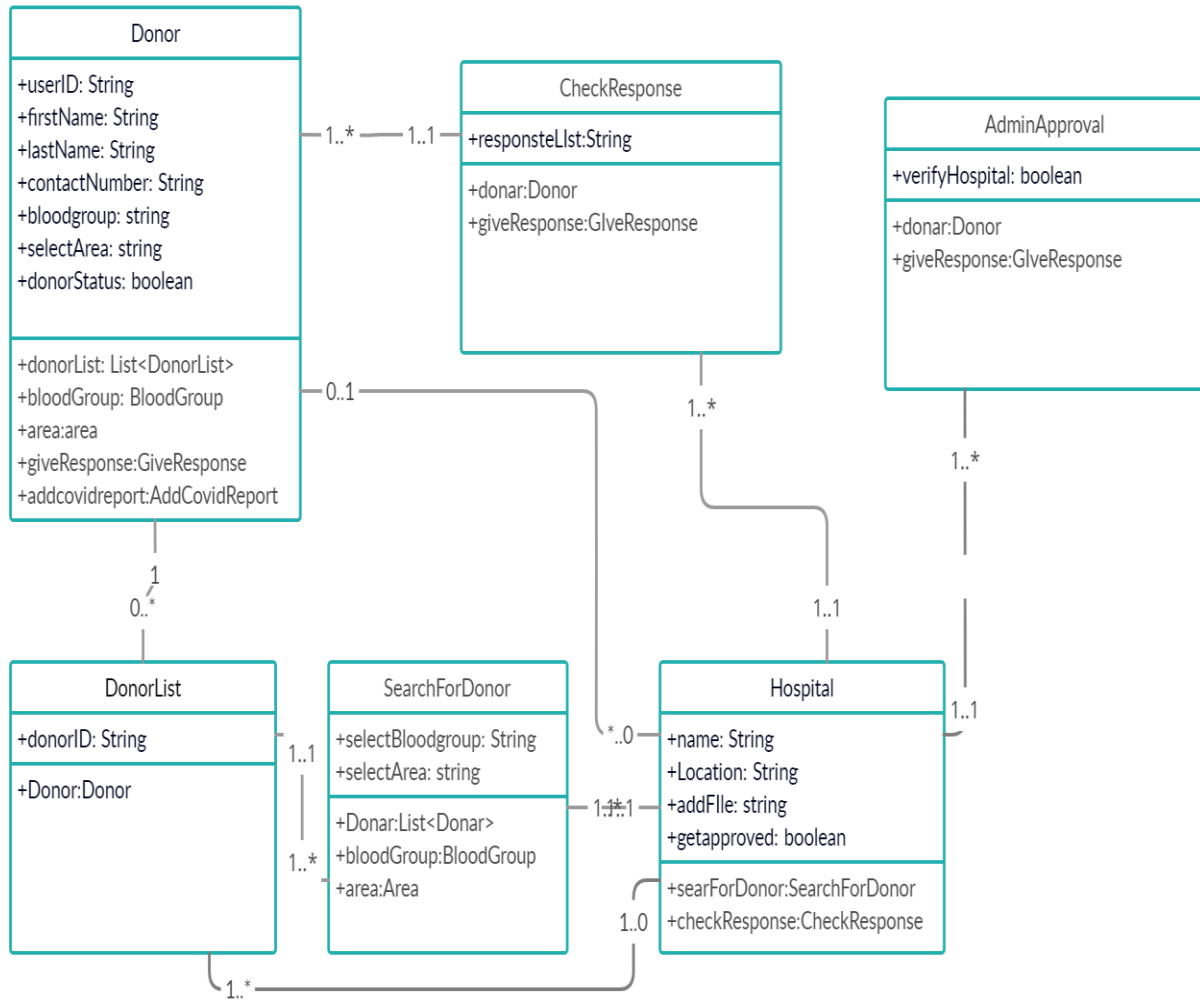


FIG-3.17 Class Diagram

3.6 ENTITY RELATIONSHIP DIAGRAM

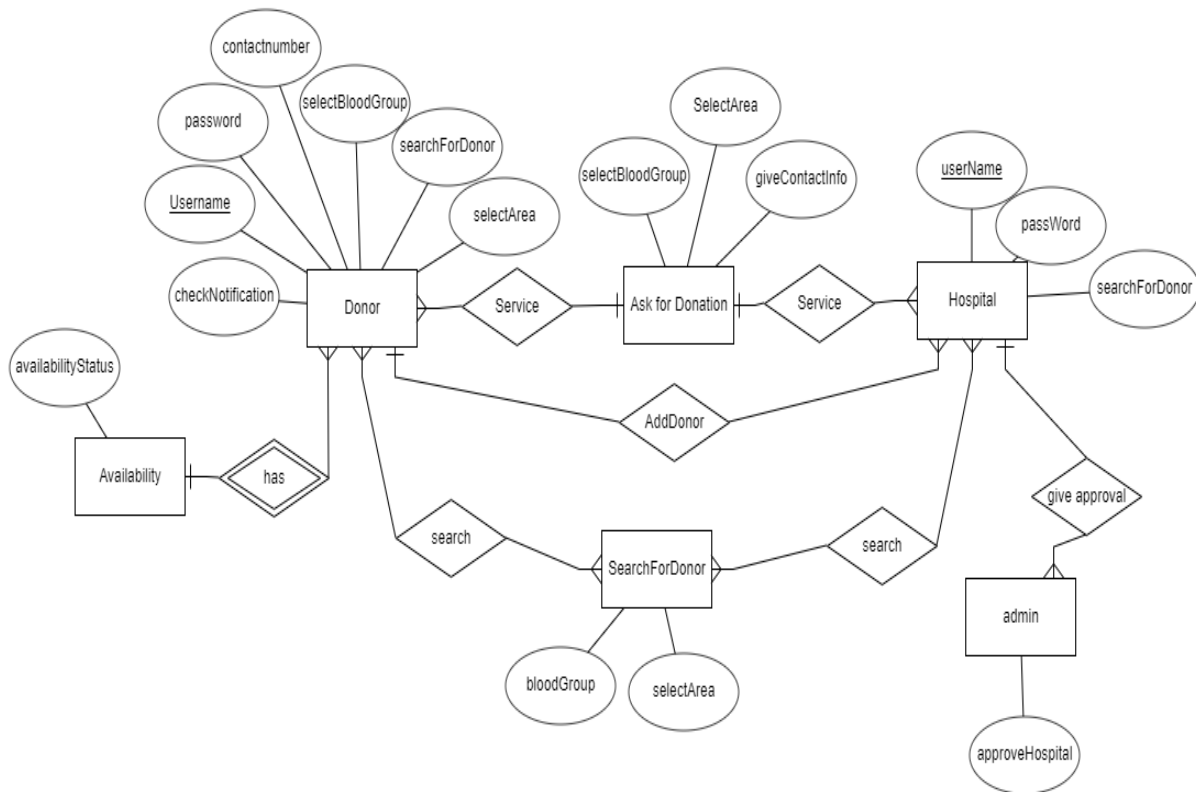


FIG-3.18 ERD

CHAPTER 4:

TESTING

4.1 Introduction

The method of checking whether the software/products match the expected requirements and whether the software is error free or not is known as Testing. System runs perfectly and smoothly if the testing is done perfectly.

Basically, there are two types of testing method to see whether the system is error free or not.

There are WhiteBox testing and BlackBox testing, for this project I'll be using BlackBox testing method.

BlackBox testing:

Black box testing is a software testing method which mainly implies on testing the system without having knowledge code structure, implementation details and internal paths. Its main focus remains on the input and output of the system, based on software requirements and specifications.

4.2 Principal of testing

- Tests have to meet final requirements
- Testing has to be done by third party user
- As we need optimal amount of testing based on risk assessment of the system, exhausting testing is not possible.
- It follows the pare of the rule which defines 80% of the error comes from 20% of programming components.
- Testing starts with short path then with large path.

4.3 Testing Featured

Features of testing mainly refers to the changes to be made into the system to add new functionality or to modify some existing functionality. All features' characteristics have to be useful, intuitive and effective.

4.3.1 Features to be tested

Before identifying the features to be tested, we need to identify the business operations, scenarios and functionality that are to be tested in each system and sub-system as it holds the values that need to be delivered to the users.

4.3.2 Features not be tested

To avoid unnecessary testing and extra confusion about what to test or not, it is really important to identify which features are need to be tested.

4.4 Testing Strategy

Test strategy is planned to define software testing life cycle. A QA team defines test coverage and scopes, which helps tester to get clear picture of the project at instance. It is highly unlikely to miss any test activity if the test strategy is guided properly.

4.4.1 Testing approach

There are two type of approaches-

- Proactive approach, in which process of test design is initiated as soon as possible to fix and find possible bugs during the building period.
- Reactive approach, where testing is started after the implementation of whole project is done.

4.4.2 Pass/ Fail criteria

The initial criteria of each phase of testing have to be met before the following phase can be executed.

Those criterias are given below-

- If the expected result or out put comes perfectly then it will be considered as a pass.
- It will be considered as failed if a test is run 10 times and it gives correct output 9 times but gives wrong output once.
- Crash of system will be considered as a fail.
- Too much time consumption will be considered as a failed test

4.4.3 Testing schedule

Table 4.1 Testing Schedule

Test phase	Time
Planning	3 days
Specifying	5 days
Unit testing	8 days
Component testing	1 week
Integration testing	1 week
Use case validation	6 days
User interface testing	3 weeks
Load testing	3 days
Performance testing	1 week
Release to production	2 days

4.5 Testing Environment

Testing team needs and well-set environment of software and hardware for executing test cases. Which supports testing in specified configured software, hardware and network.

4.5.1 Key areas to setup test environment

Key areas include-

- Application & system
- Test data
- Database server
- Font-end running environment
- Clients operating system
- Browser
- Hardware includes server operating system
- Network

4.5.2 Process of software testing environment setup

Involved people for test environment setup-

- Developers
- Testers

4.6 Test case

4.6.1 Test case module-1 for Registration

Table 4.2 Test case for registration

Test case ID-DPTC1	Test design by-
Test priority: High	Test design date:02-05-2021
Module name: Registration	Test execute by: Sarker Shahriar Gajnabi
Description: This covers functionality of registering new users.	Test execute date:03-05-2021

Preconditions: No precondition.

Dependencies: Have to enter required information.

Stage	Test Cases	Test Data	Results Expected	P/F	Actual result
01	Entering empty Value		Display fill up Required fields	P	Display Fill up message
02	Enter invalid username	@#&@*(Jasim	Invalid username	P	Display Invalid user name
03	Enter existing user name	Anindo2008	Username already exists	P	Display username already exists
04	New user registration	N/A	Display message "Registration successful"	P	Display message "Registration successful"
05					

4.6.2 Test case Module-2 for Searching Donor

Table 4.3 Test case for searching Donor

Test case ID-DPTC2	Test design by-
Test priority: High	Test design date:05-05-2021
Module name: Search for donor	Test execute by: Sarker Shahriar Gajnabi
Description: Covers donor searching for any user.	Test execute date:06-05-2021

Precondition: User has to open the website.

Dependencies: User have to select categories.

<i>Stage</i>	<i>Test Cases</i>	<i>Test Data</i>	<i>Results Expected</i>	<i>P/F</i>	<i>Actual result</i>
01	Select no criteria		No result shown	P	Display not changed
02	Select Blood group	A+	All the donors with A+ shown	P	Display all the donor with A+ blood group
03	Select Area	Dhanmondi	Result shown based on area	P	Display search result based on area
04	Select Both Blood group and area	N/A	Display result based on area and blood group	P	Display search result based on blood group and area
05					

CHAPTER 5: USER MANUAL

5.1 HOME PAGE

Donate Plasma

Donor List Login Register

Donate Plasma Save Life.

Blood Donation Is The Act Of Giving Blood To Someone Who Needs It. It Is Not Just About Giving Blood, But It Is An Act Of Kindness That Saves The Lives Of Hundreds Of People. These Fifteen Minutes Of Your Life Can Save Someone's Entire Life.

ASK FOR PLASMA

Donor List

Select Area Blood Group FILTER

Search SEARCH

Name	Phone Number	Age	Blood Group	Area
Zubayer Alam	01955377998	20	A-	Banani
maral	01799844665	20	B+	Banani
shunjid rahman showrov	01789456123	30	O-	Bashundhara

FIG-5.1 Home page

5.2 Ask for Donation

Donate Plasma Donor List Login Register

Donate Plasma Save Life.

Blood Donation Is The Act Of Giving Blood To Someone Who Needs It. It Is Not Just About Giving Blood, But It Is An Act Of Kindness. It Can Save Hundreds Of People. These Fifteen Minutes Can Save A Life For The Entire Life.

[ASK FOR PLASMA](#)

Ask for Plasma

This feature lets you to give a notification to selected donors based on their location and blood group. In this way, donors can be notified through the system.

Name*

Phone Number*

Select Area*

Blood Group*

N.B: Your name and phone number will be visible to the notified persons.

[CANCEL](#) [NOTIFY OTHERS](#)

Select Area Blood Group [FILTER](#) Search [SEARCH](#)

Name	Phone Number	Age	Blood Group	Area
Zubayer Alam	01955377998	20	A-	Banani
marol	01799844665	20	B+	Banani
shunjid rahman showrov	01789456123	30	O-	Bashundhara

Fig-5.2 Ask for donation

5.3 Register as Donor

The screenshot shows a web page for plasma donation registration. At the top, a blue navigation bar contains the text 'Donate Plasma' on the left and 'Donor List', 'Login', and 'Register' on the right. The main content area is light gray and features a central registration form. The form is titled 'Register yourself' and includes a lock icon. Below the title are two radio buttons: 'Individual' (selected) and 'Hospital'. The form contains five input fields: 'Username *', 'Full Name *', 'Phone Number *', 'Password *', and 'Confirm Password *'. A blue 'REGISTER' button is positioned below the fields. At the bottom of the form, there is a link that says 'Already have an account? Sign In'.

FIG-5.3 Donor Registration

5.4 Hospital Registration

The screenshot shows a web page with a blue header containing the text "Donate Plasma" on the left and "Donor List", "Login", and "Register" on the right. The main content area is light gray and features a central registration form. At the top of the form is a blue circular icon with a white padlock. Below the icon is the heading "Register yourself". There are two radio button options: "Individual" (unselected) and "Hospital" (selected). The form includes several input fields: "Username *", "Hospital Name *", "Phone Number *", "Password *", and "Confirm Password *". A blue button labeled "FILE INPUT" is positioned between the "Phone Number" and "Password" fields. At the bottom of the form is a prominent blue button labeled "REGISTER". Below the "REGISTER" button is a link that says "Already have an account? Sign In".

FIG-5.4 Hospital Registration

5.5 User Profile Creation

Donate Plasma Profile Notifications Logout As Shahrirsarker

⚠ Warning
Your profile is not ready yet. Please update your profile to get yourself on the donor list.

Profile Information

Username * shahrirsarker	Full Name * Sarker Shahrir Gajnabi
Phone Number * 01680060243	Age * 23
Blood Group * AB+ ▼	Select Area * Cantonment ▼
Address * 805, <u>ibrahimpur</u>	

I am available to donate blood

UPDATING PROFILE...

FIG-5.5 User Profile

5.6 User Notifications

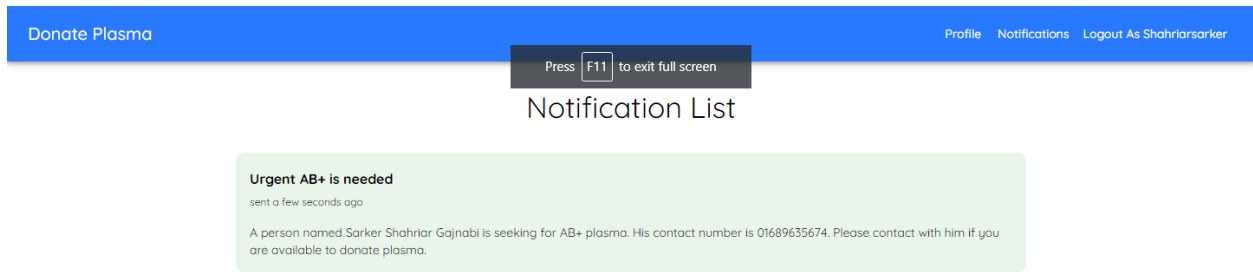



FIG-5.6 user notification

5.7 Hospital add new donor

Donate Plasma Hospital Home Login As Ppl

 **Success**
Donor account created successfully

+

Full Name *

Phone Number * Age *

Blood Group * Select Area *

Address *

Username * Password *

I am available to donate blood

[SUBMIT](#)

Donor List

Name	Phone Number	Age	Blood Group	Area
------	--------------	-----	-------------	------

FIG-5.7 Add new donor

CHAPTER-06:

CONCLUSION

6.1 Critical Evaluation

Basic English and application operating knowledge will be required by the user. Users can have easy access to donor list but they have to sign up to create profile for being a donor or opening a hospital account.

6.2 Limitation

It is very difficult to develop something without any limitations. The limitations of this project are given below-

- Users can not be tracked autonomously
- Poor net connection will lead to slow operations

6.3 Future Scope

This project will be of great help for people dealing with covid-19 situation, the physical hassle and time consumption to find a suitable donor will be reduced drastically. But due to shortage of time and unable to acquire more skill on development I was not able to implement some more features that would make this project a better suit for the users-

- Searching people in real time location
- Real time response to donation
- Better the notification system

6.4 Final Synopsis

Working on this project has allowed me to have a better understanding of web development and lead to learning more new skills. Also came to know and implement new technologies. This project will help people more then ever.

REFERENCES

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