**Interview script on one of the staff of Red Cross Pasay**   
  
Q: What is the step by step process on how people can avail of blood from your organization? For example if I were to search for blood, what are the steps I need to do?  
A: First step is you need or a pt need to secure blood request from the hospital/doctor for you to know what type of blood, component and number of units you’ll be needing. Second step is call any prc offices and make reservation if they have the available blood. Last step is go to the prc office and pay the processing fee to claim the blood you reserved.  
  
Q: What are the possible conflicts people encounter when searching or availing for blood? How are these conflicts addressed?   
A: Blood type availability is not guaranteed. It’s possible that stocks for certain blood type is unavailable. People will have to wait for stocks or they have to avail the blood type at a different Red Cross facility where stocks is available.

Q: How does Red Cross cope its stock in blood to the demands?  
A: To meet the increasing demand for blood and augment the national blood requirement, we conduct education and recruitment sessions to encourage regular voluntary blood donations from communities, different companies, organizations, colleges and universities nationwide. With different PRC blood service facilities strategically located in the entire country, the PRC collects blood from voluntary, non-remunerated blood donors with their donations accounting to almost 50% share of the nation’s blood supply.  
  
Q: How is blood stored and issued?

A: Once blood is suitable for transfusion, blood is stored in a temperature controlled blood bank refrigerator. Clients or patients needing blood for transfusion may request from any PRC blood facilities upon presentation of blood request form issued by the hospital or physician.

Q: How much will the blood cost? Is there any fees that needs to be paid?  
 A: We follow strictly the Department of Health standard. The financial requirements to ensure safe, quality and adequate supply of blood and blood products are relatively high, thus corresponding fees are authorized by the DOH. The PRC blood processing fees are in conformance with DOH Administrative Order No. 181 series of 2002 and per unit are: P1,500 for whole blood, P1,100 for packed red cells, and P700 for the rest of component blood products such as platelets, frozen plasma, cryoprecipitate and cryosupernate.  
  
Q: Does red cross own any app or website that addresses blood donors or blood recipients?   
A: We still don’t have any application. We have our own website, redcross.org.ph.





**SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGIES**

# Applied Project 2 (CSPROJ2)

**Blood Findr**

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**Project Title**

**Blood Findr**



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**Introduction**

Red Cross handles a blood bank and cater to clients in reserving any type of blood. Meanwhile, reservation of blood for various blood-related operations have been made easier with the use of emails and phone calls when handling clients. However, in some cases, clients would worry frequently about the availability of blood. Another problem is that if the blood recipient or blood donor is too far from the target hospital/Red Cross branch. In emergency situations, blood is even harder to avail. Countries from various parts of the world have developed systems by which their primary goal is to make access to blood supply with less complex using updated methods. Generally, the intention is to lessen the timeframe of blood-related transactions.

The team’s study proposes a mobile-based application that eases the reservation of blood and the handling of clients alike. The application only requires user account so that administrators can verify each client. The process starts with the selection of available blood facilities, continuing to some more verification, and the cycle is complete. Furthermore, our team deems it necessary that our system or our study be utilized for the development of blood availing in our country.

**Problem Statement**

The process of availing blood from Red Cross is initiated by the client by making a call or sending an e-mail to this institution. The process is lengthy and unsure because there are factors that cannot be processed at once by just a call or e-mail, especially when it comes to queueing. Therefore, this process is inefficient and time consuming for Red Cross and its clients.

Our group conducted an interview with one of the staff of Red Cross Pasay City Chapter along Tramo Avenue. According to the interviewee, the availability of the blood group requested is not always guaranteed. This is a problem because it could only cost more time for the recipient to receive the blood.

Processing of Blood Request (Client Side):

* First step - the blood recipient (Client) needs to secure a blood request from the hospital/doctor to know what type of blood, component and number of units is needed.
* Second step – the Client calls any Philippine Red Cross offices and make the reservation if the required blood is available.
* Third step –the Client waits for the confirmation from any Red Cross Representative.
* Fourth step – the Client go to the Philippine Red Cross office and pay the processing fee to claim the blood that is reserved.

Processing of Blood Request (Red Cross Side):

* First step – A call from blood recipient (Client) will give information of blood request from the hospital/doctor to know what type of blood they will produce; component and number of units will be needed.
* Second step –A Representative from any Red Cross chapter will confirm the availability of the requested blood.
* Third step –Confirmation of any Red Cross Representative to the client if blood is reserved
* Fourth step- Red Cross office will process the request and will ask for the payment of the processing fee to claim the blood that is reserved by the client

The process of asking for blood at Red Cross is through reservation via e-mail or by making a call. It is simple; however, time is indeed costly. Moreover, the availability of blood type or desired blood group is still not guaranteed. For some instances, desired blood group may not be available at the nearest Red Cross blood facility but could be available in another. Therefore, costing more time and hassle for people availing for blood. Instead of having to wait for longer time and the need to search for blood, the desired blood should be readily available at the quickest time possible.

**Solution**

Through our technology nowadays, availing for blood can be hassle-free and convenient. Our team imagined a feasible project to improve the convenience of people searching for blood. Blood Findr, a mobile-based application wherein people can find the nearest source of the desired blood, reserve the blood, and claim it as soon as possible. The app will be administered by Red Cross, wherein each branch has one admin and ensures that people are notified of blood availability.

The system will have an administrator (which is Red Cross) and its clients. It will require the user to have an account. Upon registration, the system will ask for the user’s information. Rest assured that it will be kept confidential by the administrator. Once registered, clients can now use our system.

Processing of our System:

First step - Client logs in to the system. If the client still does not have an account, he/she should register for an account.

Second step - Client inquires for the type of blood needed. A list of red cross blood facility and its location will be shown, along with the availability of the client’s desired blood type.

Third step - Client chooses the location of the nearest available blood supply. Once chosen, a request for reservation will be sent to the Red Cross blood facility – which the admin will receive.

Fourth step – Admin confirms blood reservation and will send a code to the user through the app, prompting that the desired blood group is reserved and ready for pick up.

Fifth step – The system will display the amount to be paid by the client. Note that upon claiming and paying for the blood at the location, the client must provide necessary requirements.

Through this app, people can already see the availability of desired blood group – whether it is available in the nearest blood facility or in another location. In case of emergency, people can just use the application and not go through the process of e-mailing or calling Red Cross. This way it is very much easier and quicker to reserve blood - making sure that the desired blood can be picked up immediately and safely. With this, people will have a more convenient way of availing of blood.

**Project Context**

The Philippine Red Cross (PRC) started in 1947 with roots that trace back to the revolutionary days, the Philippine Red Cross has truly become the premier humanitarian organization in the country, committed to provide quality life-saving services that protect the life and dignity especially of indigent Filipinos in vulnerable situations.

According to Red Cross, the need for blood is great. On any given day, more than two thousand blood units are transfused to patients in our country. Some may need blood during surgery; while others depend on it after an accident or because they have a disease that requires blood components. In 2016, the Philippine Red Cross supplied 52% of the country's blood requirements.

The PRC marked the end of its five (5) year Strategy (2012-2016) last December. It yielded significant findings on the collective performance of the organization against the key trends and challenges:

1. 1.7M units of blood collected from 1.5M voluntary non-remunerated blood donors; These were dispensed to almost 800,000 patients during the last five years;
2. Half a million persons trained on different first aid courses. Assuming that there is one First Aider trained in 0.5% of the total number of Philippine households.
3. More than a million families were provided immediate assistance (food & nonfood items) during disaster response;
4. 1.3M Red Cross Youth (RCY) members recruited out of the 17.1M total number of student enrollees in elementary and secondary levels.

The Philippine Red Cross (PRC) National Blood Services is one of the major suppliers of blood in the country.  The PRC is tasked to provide safe and quality blood through its active role in advocacy, education and promotion of voluntary blood donation, donor recruitment, retention and care, blood collection, testing, processing and blood issuance through its network of 82 blood service facilities nationwide.

In some cases, people have a hard time availing blood - whether it is because of a low stock in blood, a hard time looking for donor, or worse, running out of time. Considering the technology that we have now, searching of blood should be convenient and hassle-free. Furthermore, it should be utilized and taken advantage of.

**Purpose and Description**

The purpose of this project is to utilize our technology to ease the process of availing of blood. The project will be a mobile-based application. It will be free for everyone to use. Furthermore, the project will be user-friendly guaranteed so that even those who are not technology savvy can easily use the application.

This application will be called Blood Findr. It is a mobile-based application that aims to change the way we get blood. While adding convenience to the overall process, it ultimately aims to solve problems like searching and queueing that are inherent when trying to procure blood.

Through the application, the user can search for blood through a list of available Red Cross blood facilities and its blood group availability. Once found and picked, a request is sent to a specific Red Cross blood facility - which the admin processes. The admin assigns a code to the requestor which will prompt him/her that the desired blood is already reserved and ready for pick up. In addition to the functionality, reports regarding blood transactions will be stored in the application’s database. The reports can be stored and managed by the admin through the application.

**Objectives**

General Objectives:

The application aims to improve the way people avail blood from Red Cross. This can be made possible through the use of today’s technology.

The application wants to address the issue of having to go through a lengthy and unsure process of reserving for blood. That being said, our objective is to introduce a much easier and faster way of availing blood at Red Cross, because when it comes to blood, time is gold.

Specific Objectives:

-Innovate the way people avail blood from Red Cross.

-Allow people to know about blood type availability at each Red Cross blood facility. Thus, informing people where the nearest desired blood is available in the quickest time possible.

-To replace the traditional process of having to make a call or send an e-mail to inquire about a specific blood and have it reserved in a convenient and reliable way (made possible with the use of the application).

-Allow blood transaction reports to be stored in a database instead of filing it through papers.

**Technical Background**

Android Studio – Android Studio is the official integrated development environment (IDE) for Android application development. It is based on the IntelliJ IDEA, a Java integrated development environment for software, and incorporates its code editing and developer tools.

C++ - This is the most appropriate and robust programming language when it comes to building mobile apps for Android and Windows.

Java - Java programming language is one of the most preferred languages when it comes to Android app development.

MySQL - MySQL is the most important because it will be used to store important information to the database.

Objective-C - The primary programming language for iOS apps, Objective-C was chosen by Apple to build apps that are robust and scalable.

**Target Audience**

The project is specifically for everyone who is looking for blood. Anyone can use, access, and benefit this project. People and even hospitals can use the app, so that they can easily find and claim the blood they need from Philippine Red Cross.

**Scope and Limitations**

The application is easily accessible for everyone. Clients can use the application through mobile platforms. Internet connection is necessary for the application to function. Without internet, users will not be able to access the application.

The system is only limited to blood recipients. The application cannot address blood donors or people who wishes to donate blood. This is due to the fact that blood donation needs a more comprehensive and complex process, in which the application cannot handle.

**SWOT Analysis**

Presented below are the Strengths, Weaknesses, Opportunities and Threats of the Philippine Red Cross.

Strengths:

- Strong mission, vision as well as guiding principle

- High level of accountability and trust

- Largest blood supplier here in the Philippines

Weaknesses:

- Lack of online presence

- Lack of innovation

- Limited funds

Opportunities:

- Innovation

- Expansion of products and services

Threats:

-Competition (Philippine Blood Center)

Given the SWOT analysis above, we aim to improve the weaknesses of Philippines Red Cross (PRC). Evidently, they lack online presence and innovation. Our project will greatly help this organization in terms of the innovation and online presence. We will utilize the opportunities to help PRC become a more efficient and reliable source of blood for the Filipinos.

**GAP Analysis**

|  |  |  |
| --- | --- | --- |
| User Requirements | Current System | Proposed Changes |
| 1. Innovative process of availing of blood at any Red Cross Blood Facility. | The process of availing blood is initiated through a phone call or an e-mail. | The process of availing blood will be undertaken by using a mobile-based application. |
| 1. Allow clients to view blood type availability at every Red Cross Blood Facility as soon as possible. | Clients have to make a call or send an e-mail to inquire about the availability of a specific type of blood at any Red Cross Blood Facility. | Clients can already view and inquire about the availability of a specific type of blood through the app. |
| 1. Reports regarding blood transactions are stored in a database. | Reports are filed through papers and stored in a stock room. | Through the mobile-based application, reports can be created and accessed by admin. |

**Review of Related Literature/Systems**

According to the Mr. Alvin Delos Santos of Red Cross Tramo Pasay Branch, the most common way of reserving and finding blood in the Philippines is through call. However, there are problems related to this. Some recipient say that they worry frequently about the availability of the blood. Also, the location is sometimes too far from where they are. They also mentioned that when emergency comes, reserving blood becomes more difficult. They feel burdened by the wasted time that they spend waiting for blood to be reserved. The group aims to ease the problems of the blood finders with a mobile-based application called “Blood Findr”.

Online Blood Bank Management System is a website that enables the process of reserving and finding any type of blood via website computer. In an article written by Indian’s Chief Minister, she said, “The goal of Blood Safety Program is to provide adequate safe blood and blood products to all the needy patients.” (2014) Because we are now in the modern era, developers took advantage to develop an application that would certainly be of help to the community.

Central Blood Bank (CBB) is a non-profit blood center in the Pittsburgh area and all over the United States. CBB is able to support life with the aid of selfless blood donors. It makes it easy and convenient for people to donate and request. They have 22 community donor centers open at various days and times (centralbloodbank.org.us).

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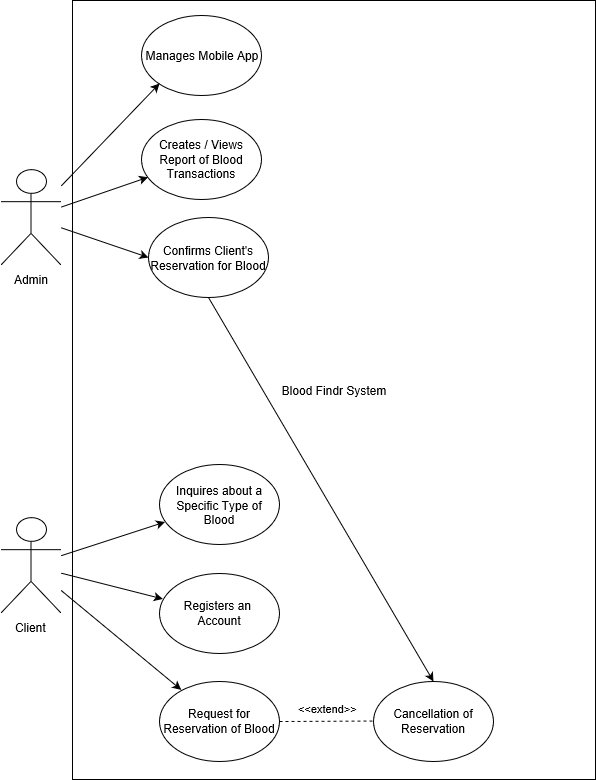
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Event Table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Event | Trigger | Source | Use Case | Response | Destination |
| Admin will Manage Mobile App | Admin Manages Mobile App | Admin | Admin manages Mobile App | Details | Mobile App |
| Client browse/ Inquire about a specific type of blood | Blood Inquiry | Client | Inquire about blood | Blood Details | Mobile App |
| Client will Register an Account | Account Registration of Client | Client | Register an Account | Account is Registered | Mobile App |
| Client will Reserve for the Available Blood Type | Reservation of Blood Type | Client | Reserve Blood Type | Client’s Blood Type is reserved | Mobile App |
| Mobile app will Display Amount Due | Display Amount Due | Mobile App | Display Amount Due | Amount Due is Displayed | Client |
| Admin confirms Reservation in the Database | Confirmation of Reservations Information | Admin | Admin confirms Reservation | Reservation is Confirmed by Admin | Client |
| Admin will create / view Report of Blood Transactions | Creation of Blood Processes Report | Admin | Admin creates / views Report of Blood Processes | Report Details | Mobile App |

Use Case Diagram



Use Case Full Description:

|  |  |  |
| --- | --- | --- |
| Use Case Name: | Manages Mobile App | |
| Scenario: | Admin will manage mobile app | |
| Triggering Event: | Mobile app is managed by admin | |
| Brief Description: | Admin will create, update, delete stored data in the system. All data (client, blood, branch, and system) will be managed by the admin. | |
| Actor: | Admin | |
| Related Use Case: | -Admin registers an account | |
| Stakeholders: | Mobile App | |
| Preconditions: | - Admin must have an account | |
| Post conditions: | Stored data will be kept confidential. | |
| Flow of Events: | Actor | System |
| 1. Admin logs in to the System. 2. Admin performs CRUD (create, read, update, delete) in the Database. | 2.1 System stores or removes data |
| Exception conditions: | Admin cannot alter client’s data | |

|  |  |  |
| --- | --- | --- |
| Use Case Name: | Confirms Client’s Reservations of Blood | |
| Scenario: | Admin will confirm Client’s reservation of blood | |
| Triggering Event: | Client’s reservation of blood is confirmed by admin | |
| Brief Description: | Admin will confirm client’s reservation of blood and will notify the client that the desired blood type is reserved and ready for pick up. | |
| Actor: | Admin | |
| Related Use Case: | -Admin registers an account | |
| Stakeholders: | Clients and Mobile App | |
| Preconditions: | - Admin must have an account  - Stocks of Blood is known  - Client is verified through registration | |
| Post conditions: | Client will be notified of the confirmation. | |
| Flow of Events: | Actor | System |
| 1. Admin logs in to the System. 2. Admin double checks blood type availability. 3. Admin confirms Client’s reservation of blood. | * 1. System provides details of blood type and availability.   2. System approves confirmation |
| Exception conditions: | Admin cannot confirm reservation if there are no stocks or all remaining stocks have already been reserved. | |

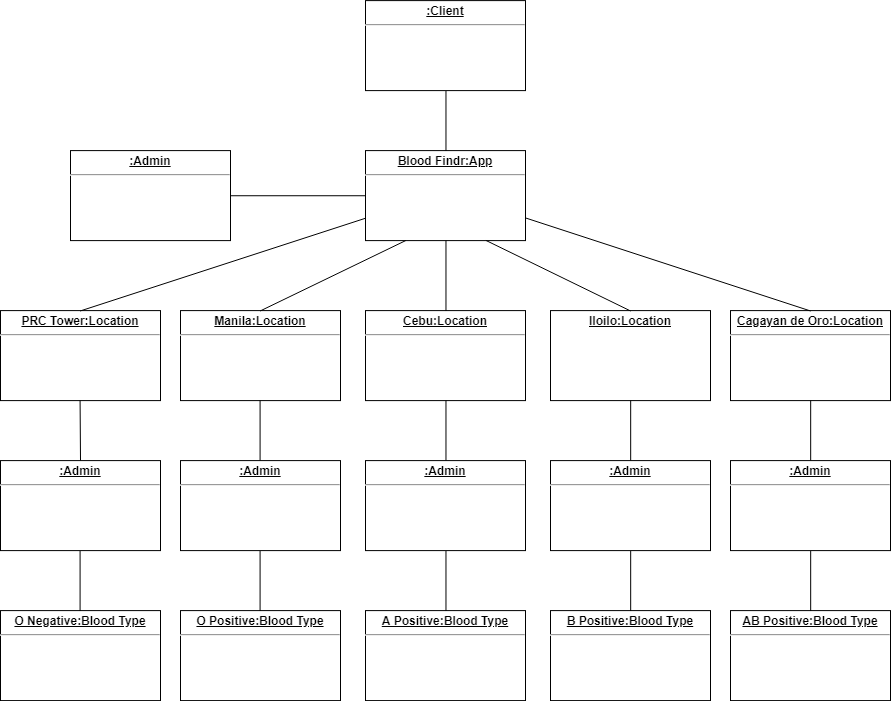
|  |  |  |
| --- | --- | --- |
| Use Case Name: | Creates / Views Report of Blood Transactions | |
| Scenario: | Admin will create / view report of blood transactions | |
| Triggering Event: | Report of blood processes is created or viewed by the admin | |
| Brief Description: | Admin will create a report regarding completed blood transactions. | |
| Actor: | Admin | |
| Related Use Case: | -Admin registers an account | |
| Stakeholders: | Mobile App | |
| Preconditions: | -Admin must have an account | |
| Post conditions: | Total number of blood-related transactions will be known. | |
| Flow of Events: | Actor | System |
| 1. Admin logs in to the system. 2. Admin views blood transactions. 3. Admin creates reports of blood transactions. | 2.1 System displays a list of report of blood transactions.  3.1 System stores the report in the database |
| Exception conditions: | Only admins can generate a report. | |

|  |  |  |
| --- | --- | --- |
| Use Case Name: | Inquires about a specific type of blood | |
| Scenario: | Client will inquire about a specific type of blood. | |
| Triggering Event: | Blood type is inquired by client. | |
| Brief Description: | Client will inquire about a specific type of blood, its availability and location. | |
| Actor: | Client | |
| Related Use Case: |  | |
| Stakeholders: | Mobile App | |
| Preconditions: | -Client must have access to the application (no account needed) | |
| Post conditions: | The Application will display current Blood Type Availability of the inquiries of the client. | |
| Flow of Events: | Actor | System |
| 1. Client uses application. 2. Client inquires about a specific type of blood. 3. Client can opt to reserve for that blood or not. | 2.1 System displays and provides information about blood. |
| Exception conditions: | Client must have an account to reserve for the blood. | |

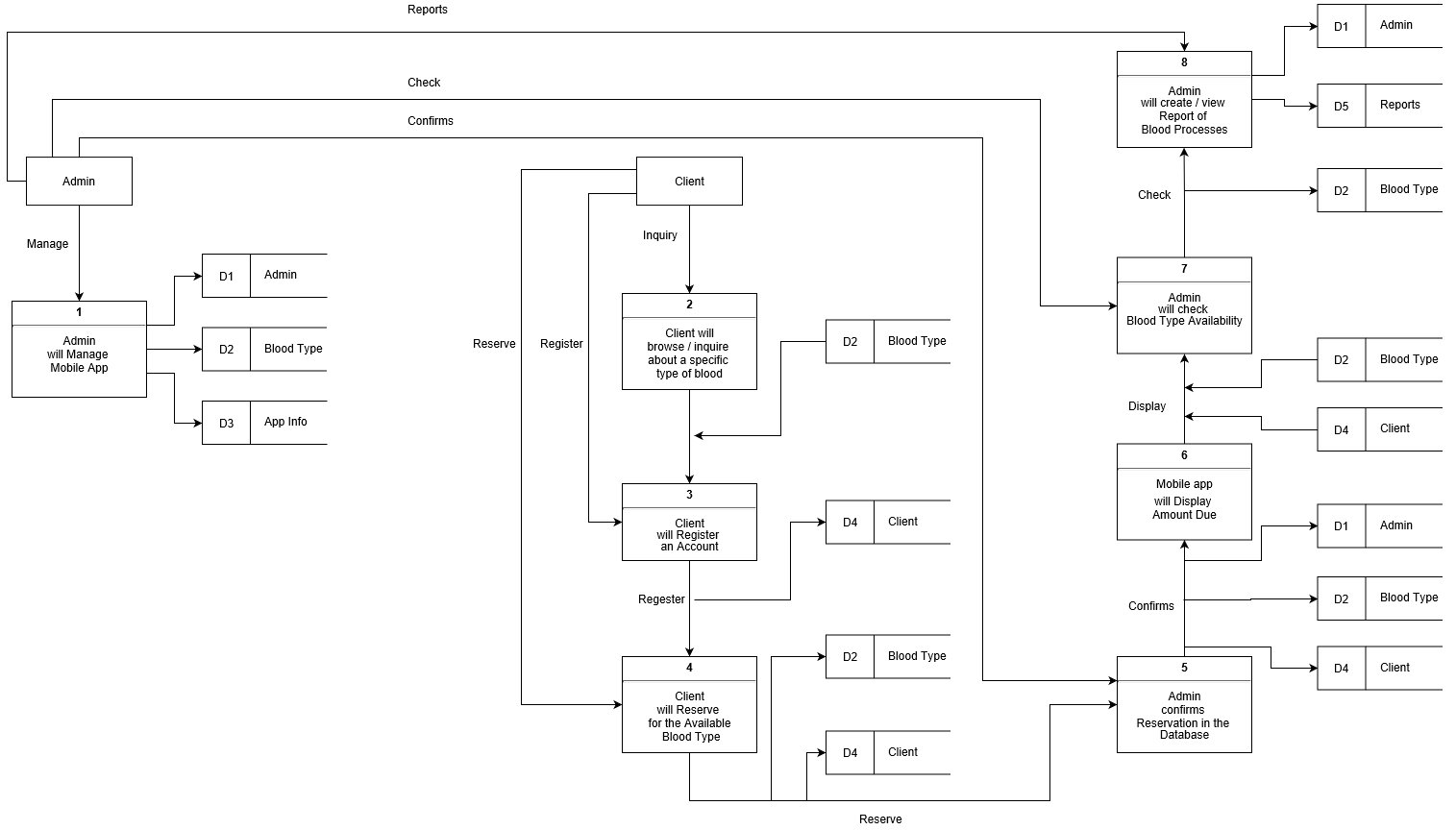
|  |  |  |
| --- | --- | --- |
| Use Case Name: | Registers an account | |
| Scenario: | Client will register an account | |
| Triggering Event: | Account is registered by client | |
| Brief Description: | An account is needed to request for reservation of blood. The client must register first an account. | |
| Actor: | Client | |
| Related Use Case: |  | |
| Stakeholders: | Mobile App | |
| Preconditions: | -Client must provide required information for the account registration | |
| Post conditions: | Client will have access to avail blood through the system. | |
| Flow of Events: | Actor | System |
| 1. Client fills up registration form and necessary information needed through the mobile app. 2. Client is registered into the system. | * 1. System stores client’s data in the database   2.1 Approve and verify account registration |
| Exception conditions: | Client does not need to register if the client already has an account. | |

|  |  |  |
| --- | --- | --- |
| Use Case Name: | Request for Reservation of Blood | |
| Scenario: | Client will request for a reservation of blood. | |
| Triggering Event: | Reservation of blood is requested by client. | |
| Brief Description: | Client will request for a reservation of blood, so the admin can confirm and have the blood ready for the client to pick up. | |
| Actor: | Client | |
| Related Use Case: | -Client registers an account | |
| Stakeholders: | Admin and Mobile App | |
| Preconditions: | -Client must have access to the application  -Client must have an account | |
| Post conditions: | Through the application, a request for blood confirmation from the client will be forwarded to the admin. | |
| Flow of Events: | Actor | System |
| 1. Client logs in to the System. 2. Client requests for the reservation of blood. 3. Client will receive confirmation. | 2.1 System will reserve blood.  3.1 System will confirm reservation through the admin. |
| Exception conditions: | Client must claim the blood at a given time, otherwise reservation of blood will be cancelled. | |

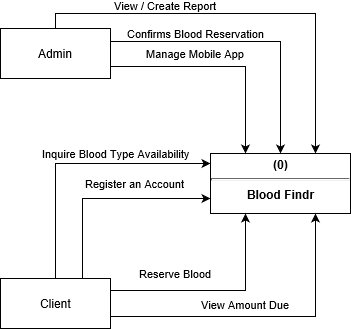
Object Diagram:



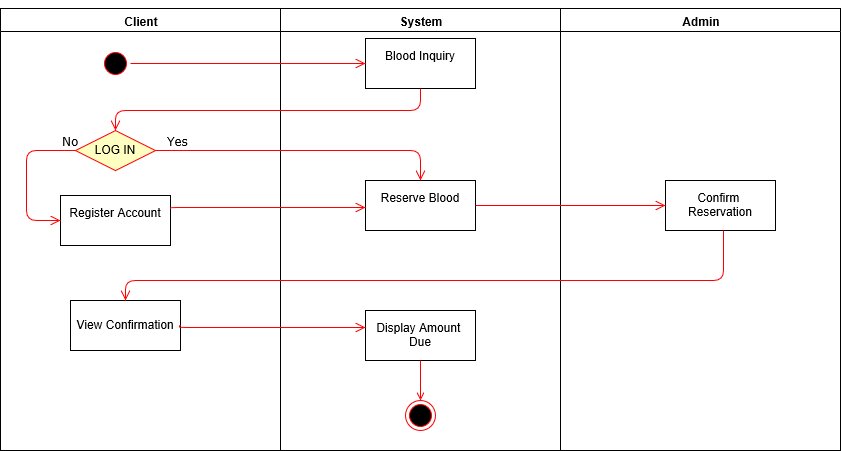
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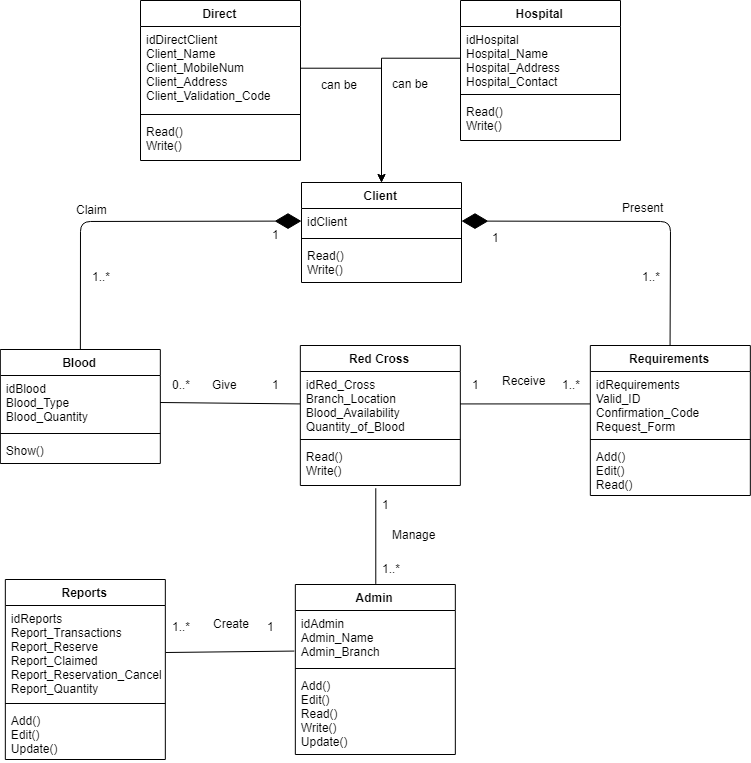
Context Flow Diagram:



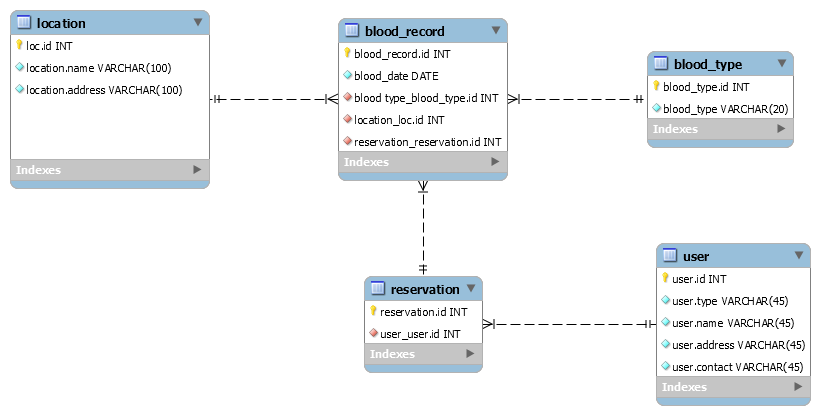
Activity Diagram:



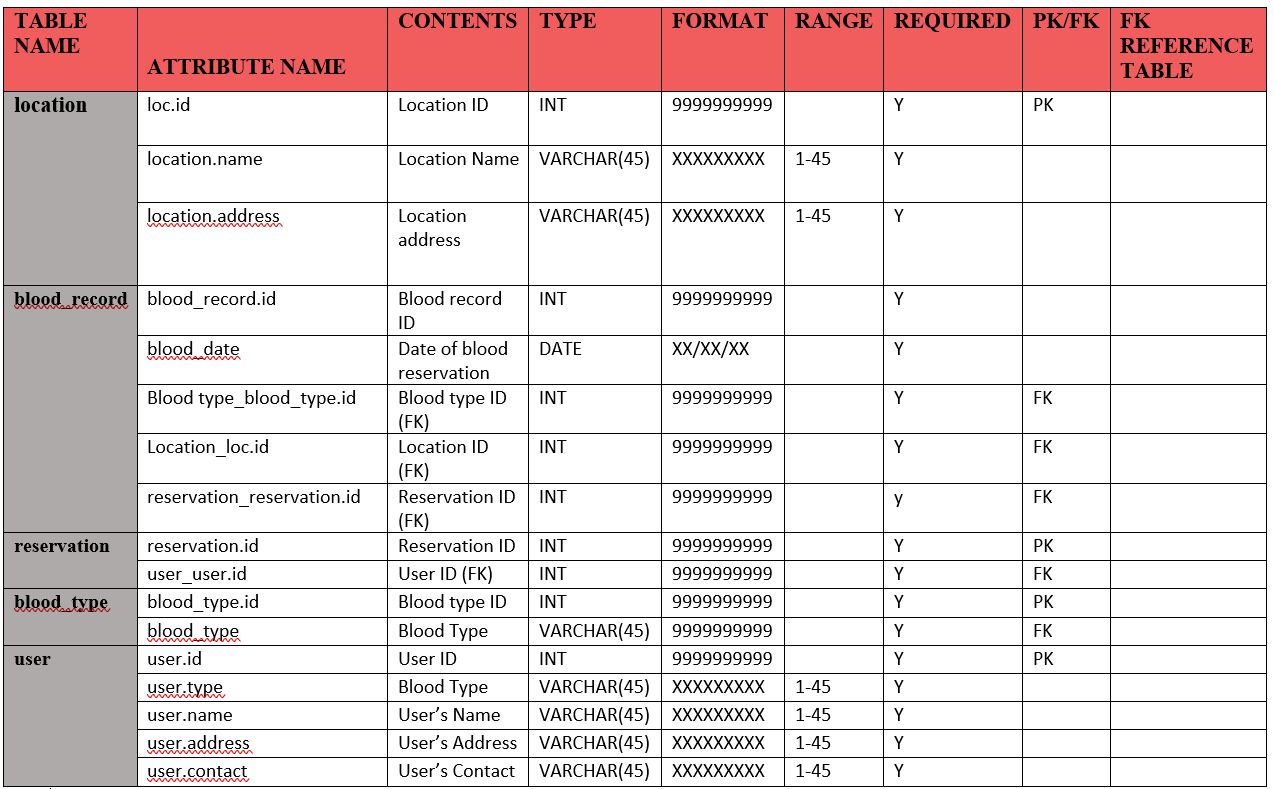
Class Diagram:



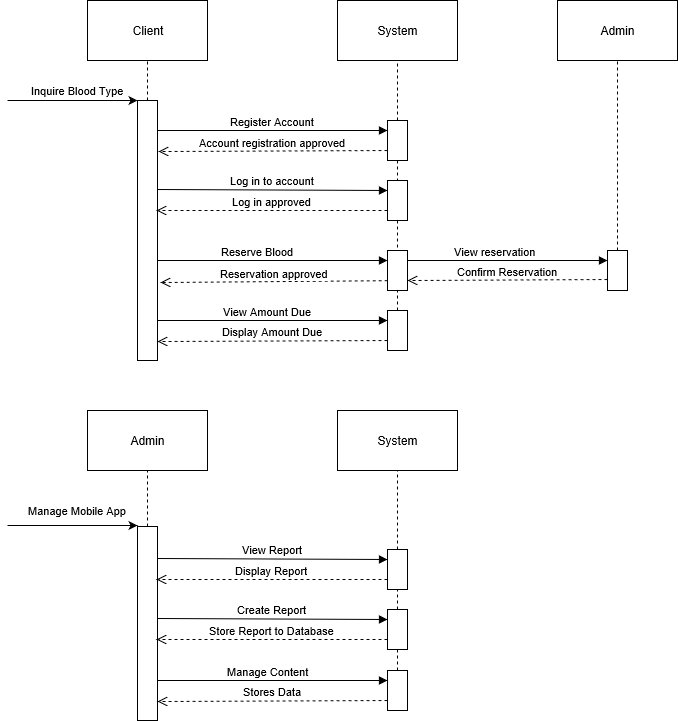
Entity Relationship Diagram:



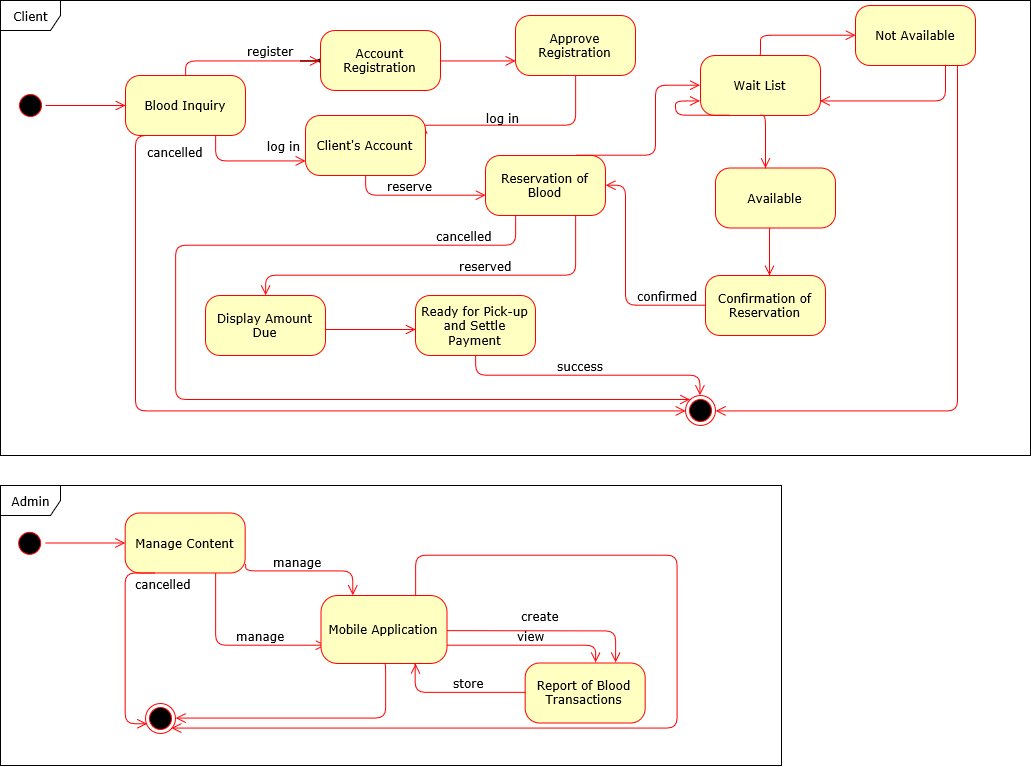
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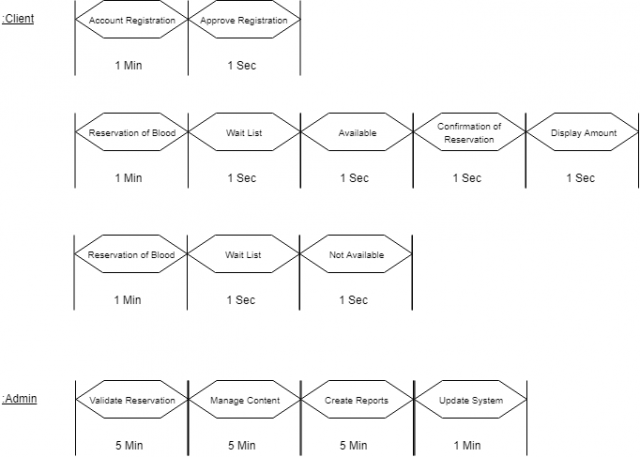
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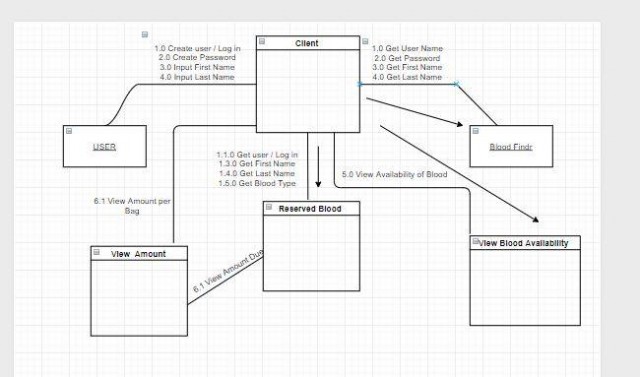
State Machine Diagram:



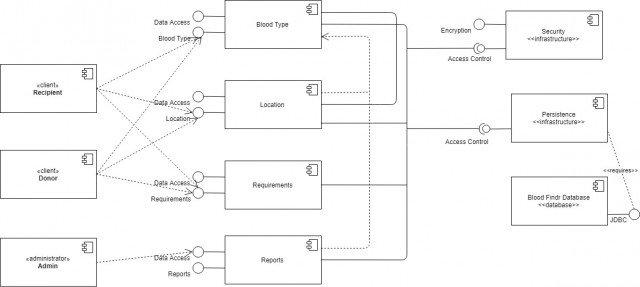
Timing Diagram:



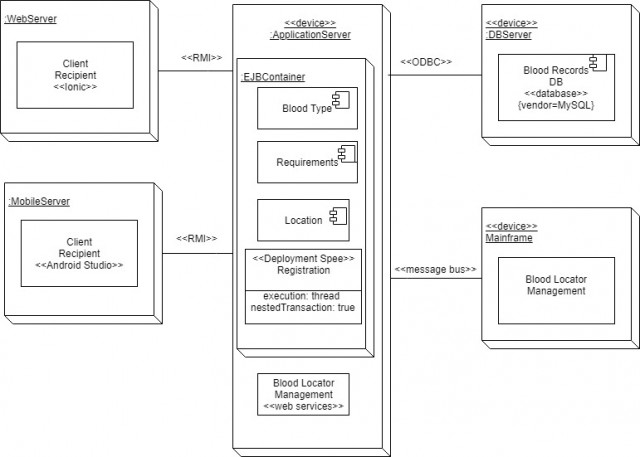
Communication Diagram:



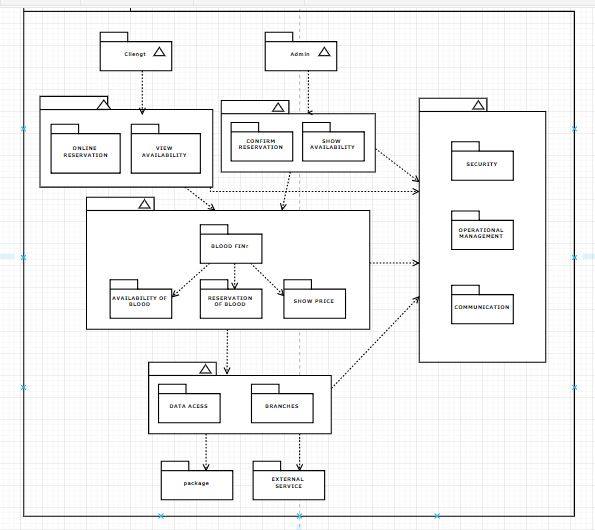
Component Diagram:



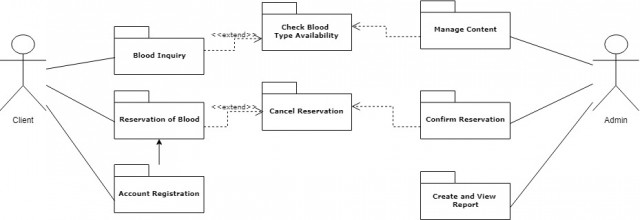
Deployment Diagram:



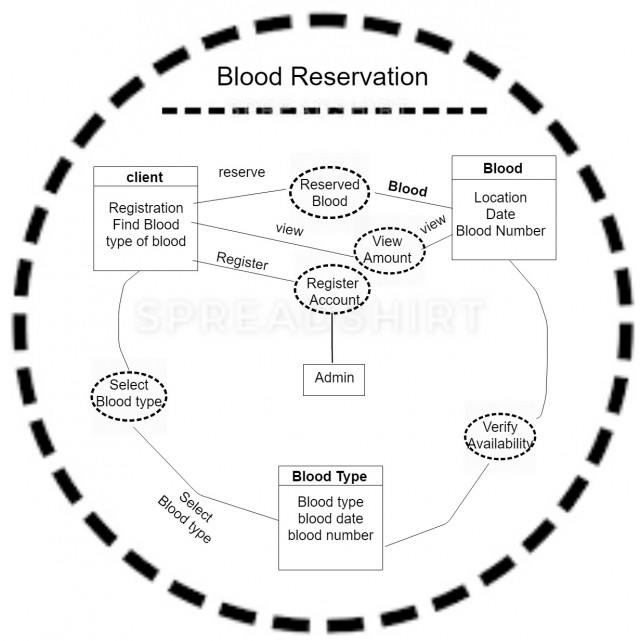
Package Diagram:



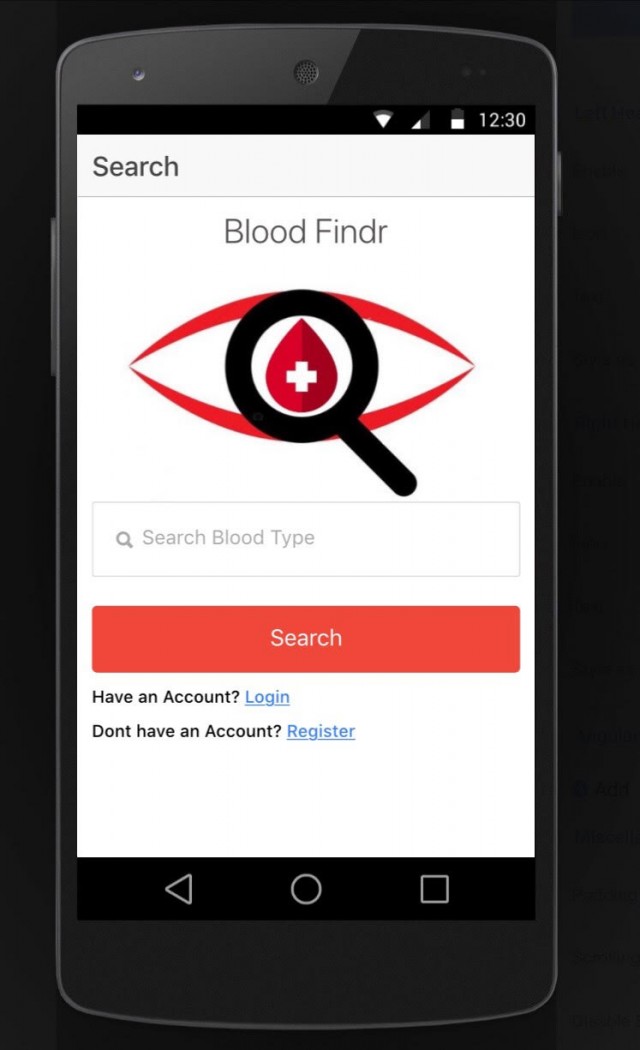
Use Case Package Diagram:



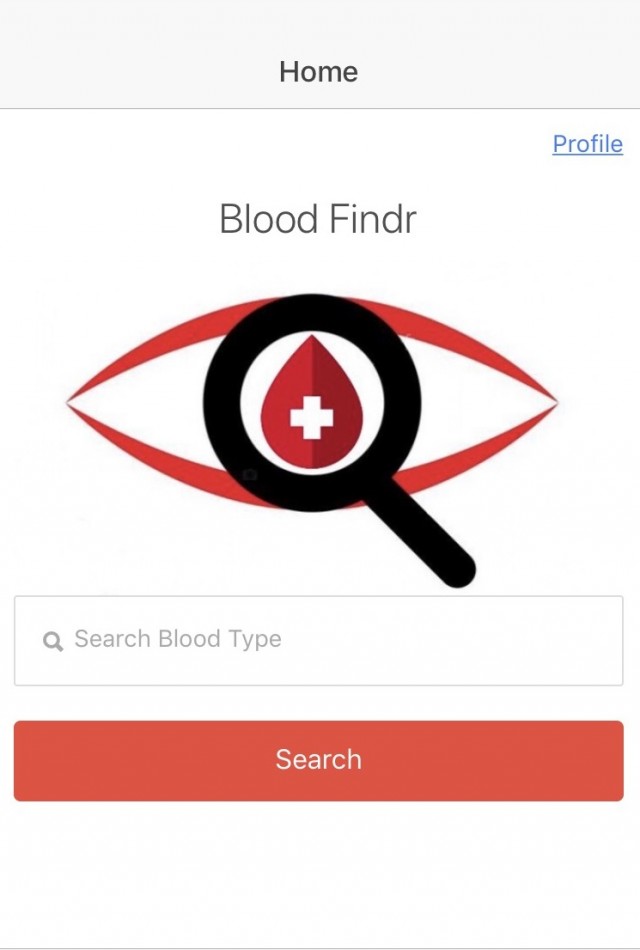
Composite Structure Diagram:



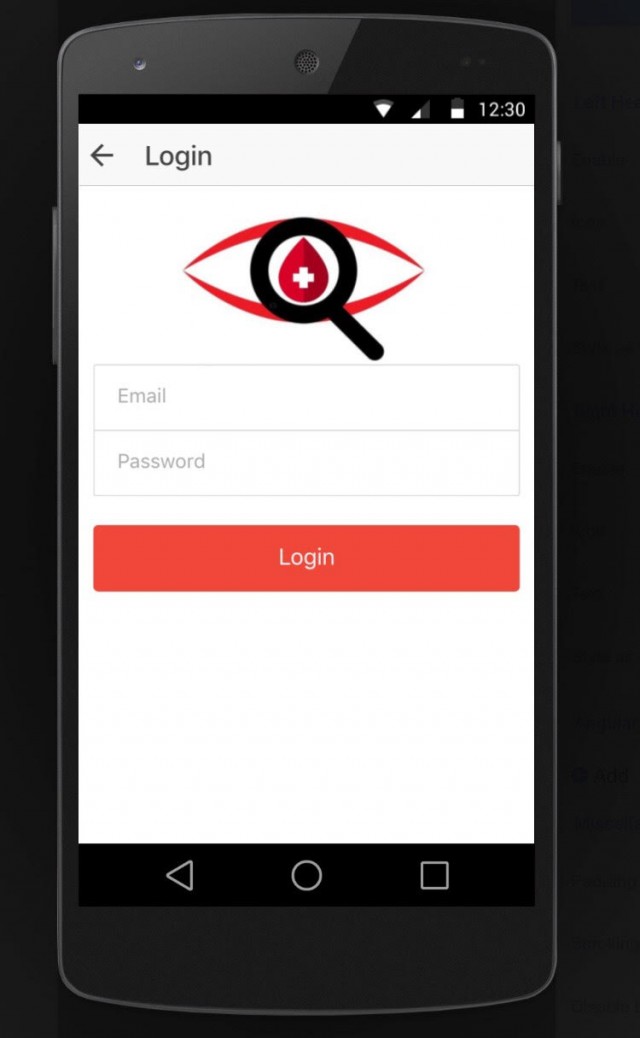
User Interface (Mobile):



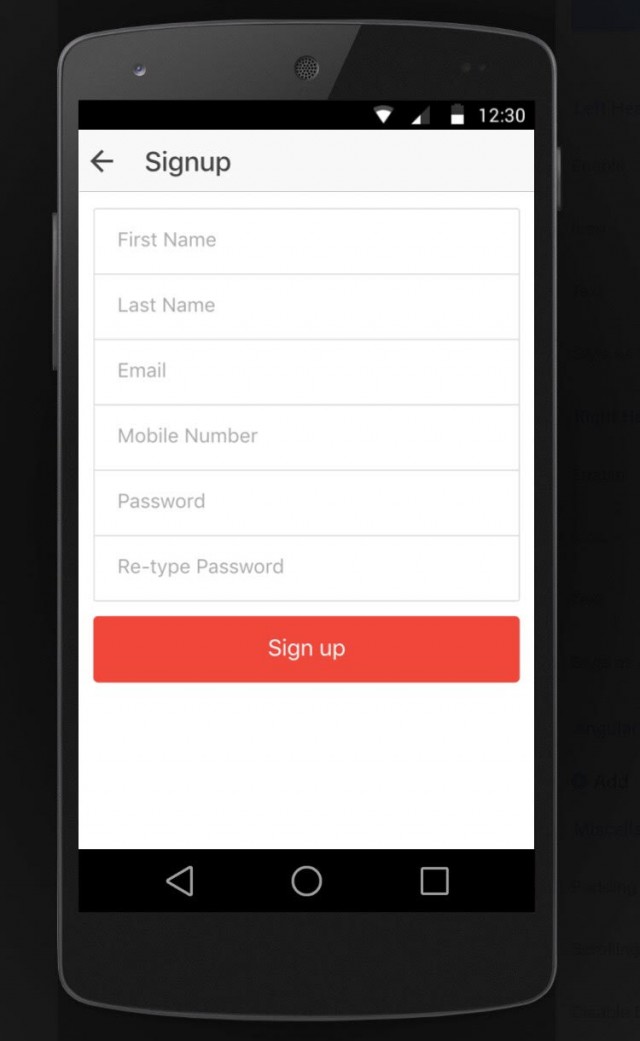
The first page of the application wherein users can search for a specific blood type, login to their user accounts, or register an account.



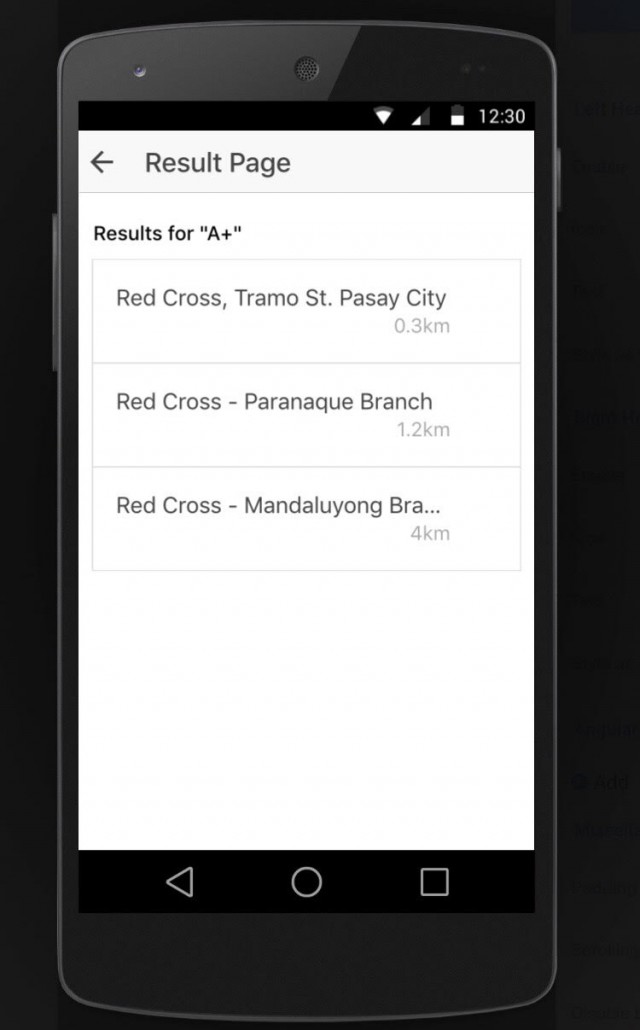
Upon logging in, this is the home page of the application. Users can search for blood type or edit their profile if needed.



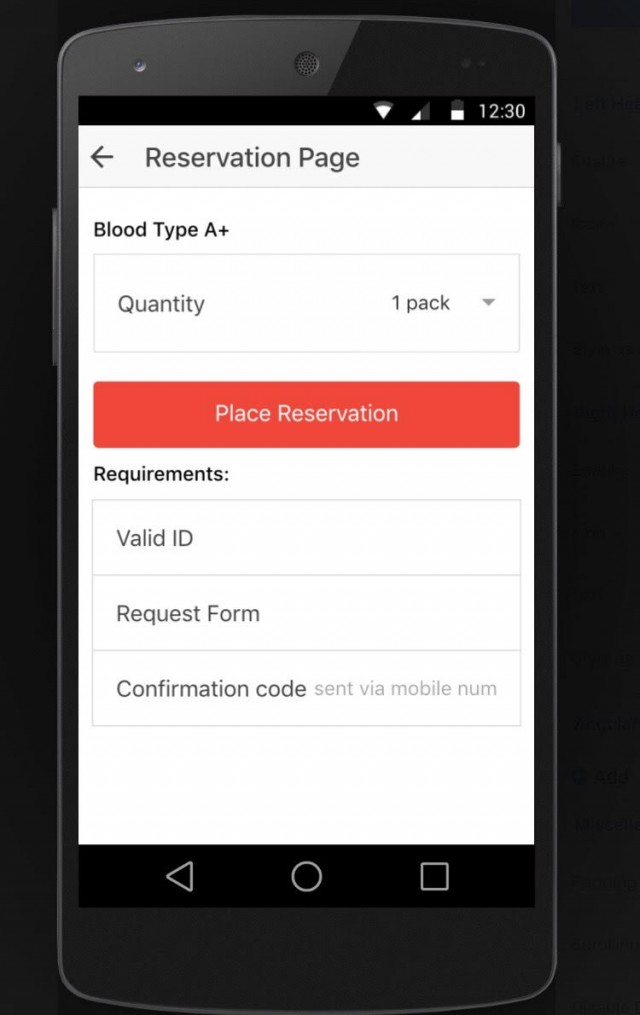
Log in page is where users can input their login credentials.



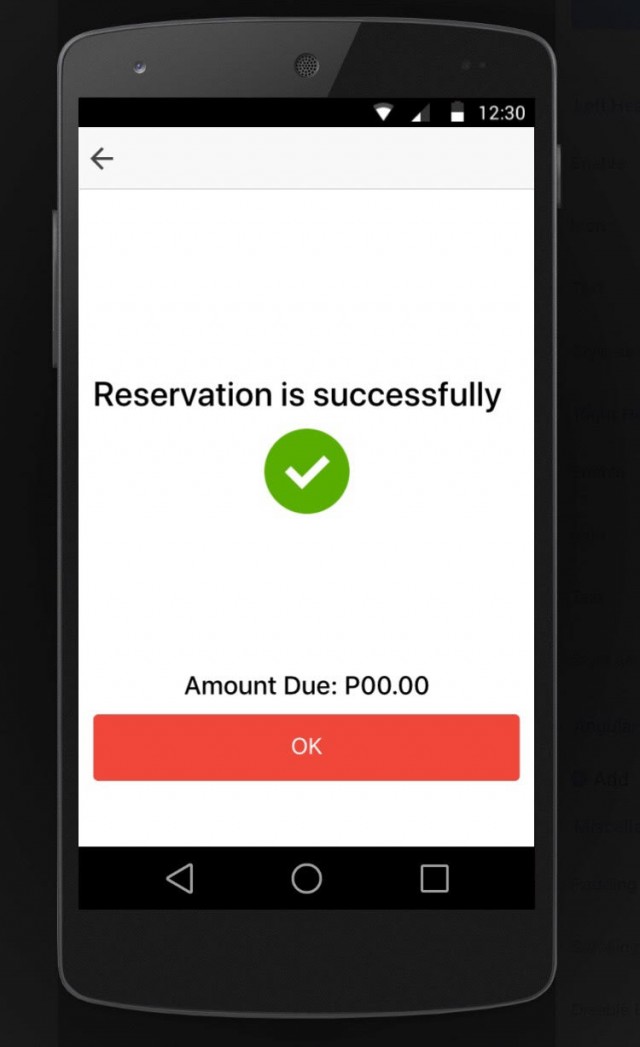
Sign up page is where the users will need to input their personal information for account registration.



The result page shows the list of what the user has searched from the search page.



Once the specific blood type has been chosen, the user can request for a reservation through this page.



The last page prompts that the reservation is successful and amount to be paid is displayed.

**Conclusions and Recommendation**

Red Cross has blood banks to administer clients’ blood supply such as blood transfusion, surgery, and similar cases. Availing blood in the country takes a lengthy process of reservation through email or phone call. This kind of system is not actually efficient, considering the wide options we have through utilizing technology. Blood supply should be readily available, especially because it involves life of a person. The need for blood is an emergency situation, that requires immediate action. Though the process of blood availing in the country is technologically efficient, there will always be room for improvement. As BSIT students, we have proposed an easier, user-friendly, and more efficient way of catering to clients in need of blood.

Blood Findr, is a mobile-based application that administers clients’ need for blood supply. The system promotes the more updated type of application that makes transactions and processes easier. Through verification codes, admins can easily verify and categorize their clients and secure the data. Therefore, we consider it feasible that our system be implemented to our target client, providing an easier and more efficient process of availing blood in the country. This can replace the traditional process and create a larger network of clients as well as a more updated, more efficient application.