



BLOOD BANK SYSTEM

CS103 - PRESENTATION
MICHAELA, DELEAR & SESE



CONTENT

- ABOUT US - GROUP INTRO
- APPLICATION OBJECT
- RESEARCH GATHERED
- UML/USE CASE
DIAGRAM
- SCREENSHOTS
- CHALLENGES FACED
- CONCLUSION

ABOUT US AND PROJECT PLAN

OUR TEAM CONSISTS OF:

MICHAELA

DELEAR

AND SESE - WHO IS NO LONGER WITH US.

- ALL AGREED ON BLOODBANK
- MICHAELA SET UP TRELLO AND GITHUB FOR ALL OF US
- DELEAR AND SESE DID RESEARCH REGARDING BLOOD BANKS
- MICHAELA CODED LOGIN & SET UP THE FOUNDATION FOR THE REST OF THE PROJECT (I.E.. VECTORS, STRUCTS)
- DELEAR CODED DONORS PAGE, SUCH AS ELIGIBILITY TEST, BOOKING, CANCELLING APPOINTMENTS ETC.
- SESE WAS TASKED WITH CODING REGO AND STOCK MANAGEMENT.

PROJECT PLAN

Gather business and user requirements

🕒 Jun 1 - Jun 7 💬 1 📎 2



Conduct SWOT analysis

🕒 Jun 1 - Jun 7 ☰



Draw UML diagrams (structure diagram, use case diagram)

🕒 Jun 1 - Jun 7 💬 2 📎 4



Research user experience

🕒 Jun 1 - Jun 7 📎 1



+ Add a card



Research possibilities and limitations in console applications, identify problems in the existing systems.

🕒 Jun 1 - Jun 7 📎 1

Research technical options

🕒 Jun 1 - Jun 7 💬 1



What the donor sees

🔔 4



🕒 Jun 8 - Jun 15



Eligibility Test

🔔 6



🕒 Jun 8 - Jun 15



Merging branches

M

What the admin sees

🕒 Jun 8 - Jun 15

M

Users, Login and Permissions

🕒 Jun 8 - Jun 15

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PROJECT PLAN

Research technical options

Jun 1 - Jun 7

1

Stock management

Jun 8 - Jun 15

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S

What the hospital sees

Jun 8 - Jun 15

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Registration

Jun 8 - Jun 15

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Booking and Cancelling
Appointments

6

Jun 8 - Jun 15

APPLICATION OBJECTS

1

REGISTER AND LOGIN

a variety of registrations and login permissions for donors, admin and hospital

2

ELIGIBILITY AND BOOKING

Donors can see if they're eligible to donate and book appointments, edit or cancel.

3

ADMINS CAN FETCH DATA

Admins can see logins, appointments, edit anything or delete anything they want.

4

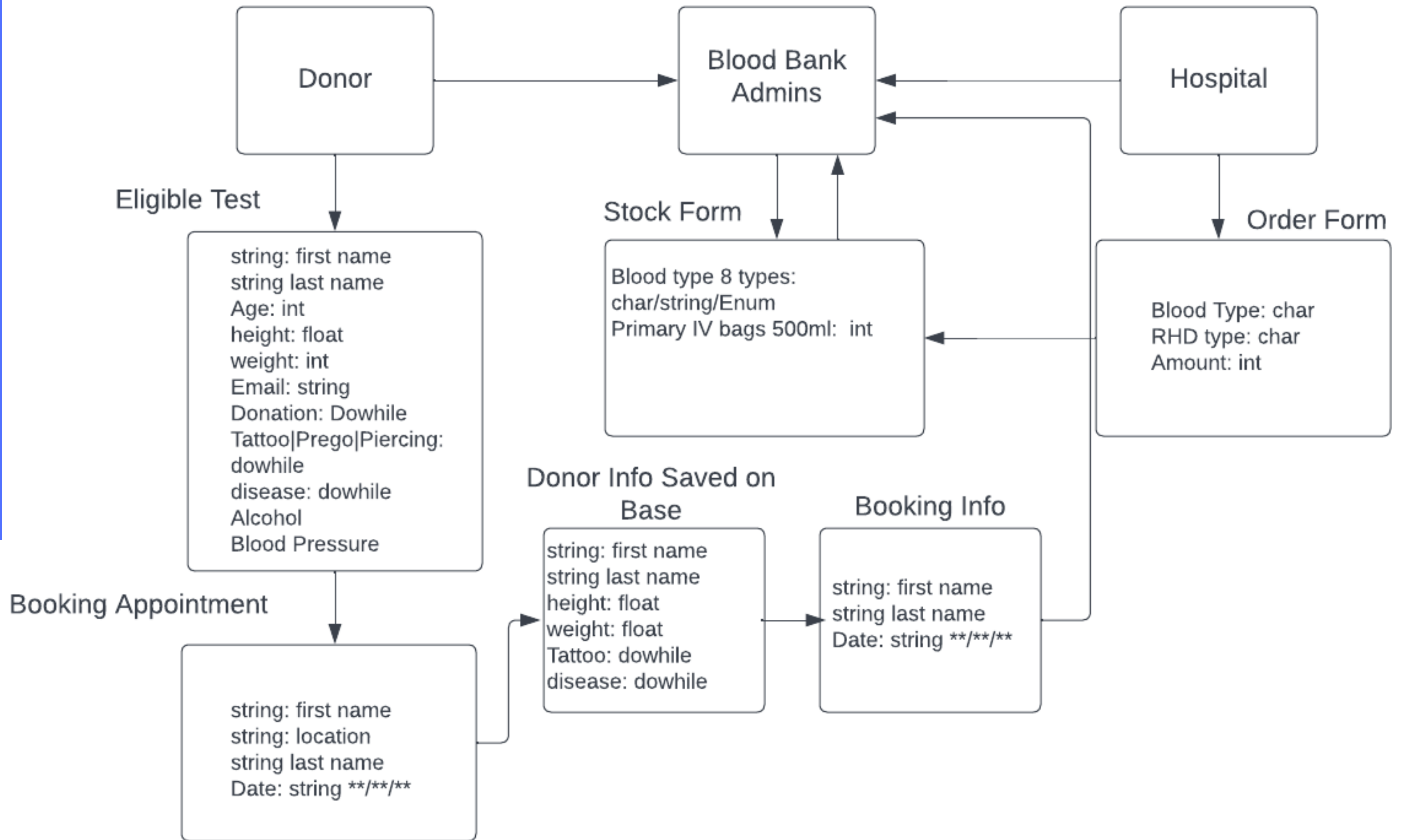
HOSPITALS CAN FETCH BLOOD DATA

Hospitals can fetch donors data regarding appointments and fetch blood from the admin

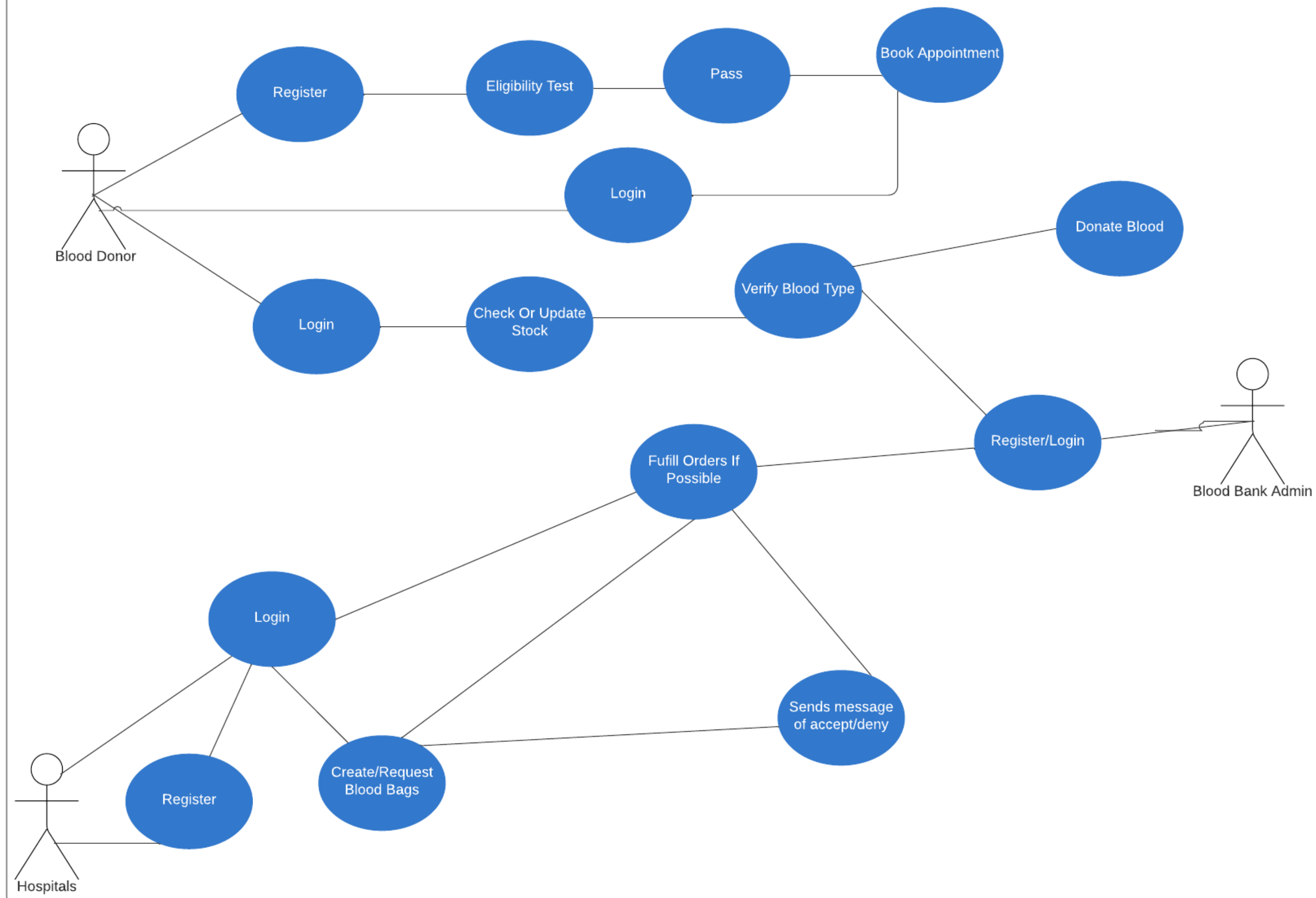
RESEARCH GATHERED

- DIFFERENT BLOOD TYPES, MOST COMMON, RAREST ETC.
- DIFFERENT TYPE OF DONATIONS I.E.. BLOOD, PLASMA, PLATELETS AND RED CELLS
- ALL DONORS MUST UNDER-GO ELIGIBILITY TEST
- NZBS WAS WELL DONE SO WE WENT WITH ZIMBABWE'S SYSTEM
- ZIMBABWE BS DID NOT PROVIDE AN ELIGILIBTY TEST AND WEBSITE WAS VERY SLOW TO RESPOND, ALSO COULDN'T REGISTER
- OUR SYSTEM YOU COULD REGISTER AND DO AN ELIGILIBTY TEST AS A DONOR

UML DIAGRAM



USE CASE DIAGRAM



...Welcome to Blood Bank NZ...

Register as Donor [1]

Login [2]

Press 3 to exit [3]

REGO & LOGIN MENU

-----Welcome-----

Before booking an appointment, you must first under-go an eligibility test to see if you're eligible to donate!

Press 1 to see if youre eligible to donate

Press 2 to book an appointment

Press 3 to view, update or cancel an appointment

Press 4 to view, update or delete your account

Press 5 to logout

DONOR MAIN MENU

Welcome to the Admin Homepage.

- [a] View Requests
- [b] View Appointments
- [c] View All Users
- [d] Log Out

ADMIN MAIN MENU

Welcome to the Hospital Homepage.

[a] Display Stock

[b] Logout

HOSPITAL MAIN MENU

CHALLENGES FACED

- ONE OF OUR TEAM MEMBERS DROPPING OUT WITH ONLY A FEW DAYS LEFT TO GO
- LACK OF PLANNING
- LACK OF KNOWLEDGE REGARDING UML AND USE CASE DIAGRAMS
- LIMITED C++ KNOWLEDGE
- LACK OF COMMUNICATION AT THE START
- CODING SEPARATE PARTS AND TRYING TO INTEGRATE IT AFTER
- UNFORESEEABLE CODING BUGS
- DEBUGGING COSTING TIME
- CHOSE A SUBJECT WITH LIMITED KNOWLEDGE OF /NZBS
- NEW TO GITHUB, NOT USED TO GIT FUNCTIONS

CONCLUSION

IN CONCLUSION, ALTHOUGH WE FACED A LOT OF CHALLENGES, BIGGEST BEING A TEAM MEMBER DROPPING OUT AND HAVING TO IMPROVISE OUR PROJECT, WE ARE STILL HAPPY WITH WHAT WE MANAGED TO ACCOMPLISH WITH WHAT LITTLE WE HAD. CODING SUCH A HUGE PROJECT IS ALWAYS CHALLENGING AND WE'VE LEARNED FROM OUR MISTAKES; FROM LACK OF UNDERSTANDING OF HOW SOME CONTAINERS WORK, LIKE VECTORS - TO LACK OF UNDERSTANDING OF PROPER FILE HANDLING WITH GITHUB. REGARDLESS OF THESE SETBACKS, WE OVER-CAME THE ODDS. GOING FORWARD; I AM CONFIDENT WE WILL BE BETTER PREPARED WITH PROPER PLANNING, COMMUNICATION AND MANAGING EACH PERSONS PART PROPERLY.

THE END.

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IF(CLASS != CLAP)
    {COUT<<"YOU MUST RE-DO PRESENTATION";}
ELSE {COUT<<"PRESENTATION WAS FINE";}
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