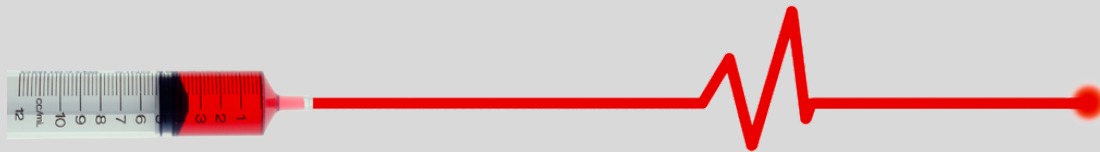




# EATA



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SUPERVISOR

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# EATA



## SUMMARY

- An initiative in cooperation with the Ministry of Health that seeks to reduce the communication gap between donors and blood banks in order to make the blood donation process easier.

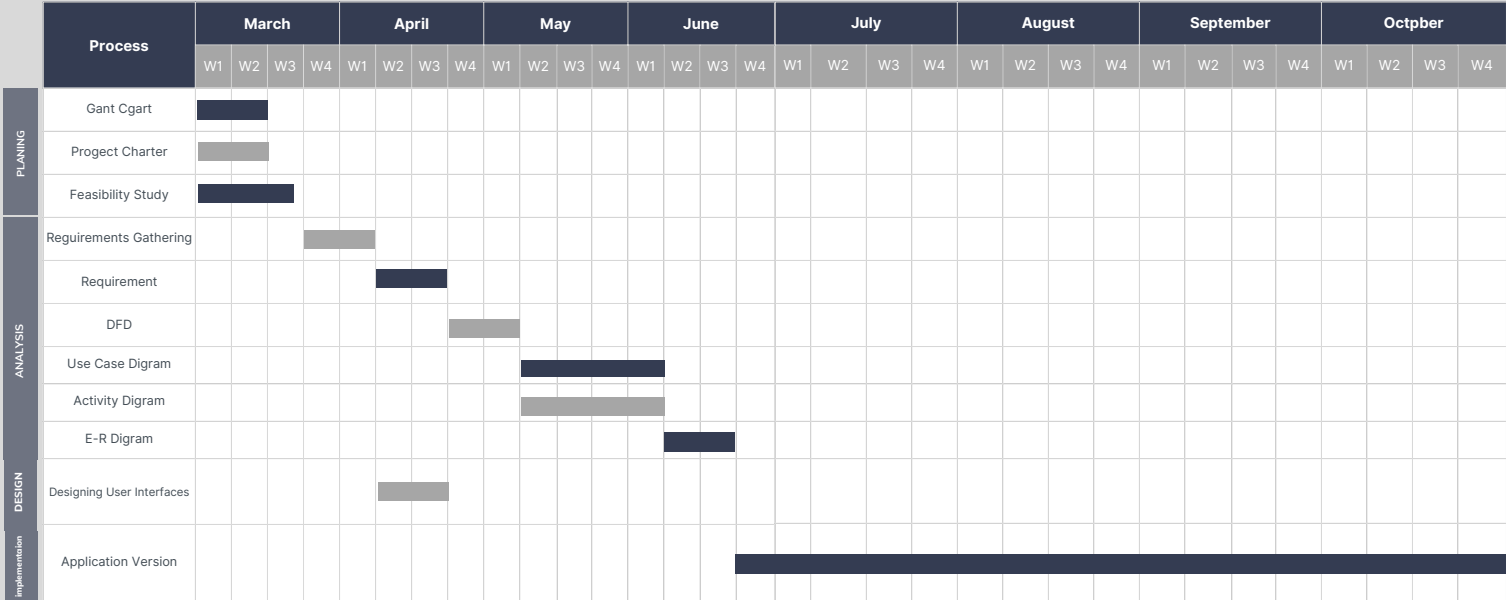
## MORE ABOUT US

- A system that helps donors and hospitals to donate blood. This system asks the customer (name, age, blood type, weight, height). When the customer puts the blood type, information about his blood type appears, and the system shows the customer a map with of blood banks and a search box looking for a specific center or hospital, the customer can see the donation statistics in the Kingdom, and the customer can choose if he wants to donate whole blood or platelets. the customer can view their previous donation. And contact us via WhatsApp.
- The system sends to hospitals the statistics of the highest blood type donation to find out which blood type is in most need. The hospital can send a request to donors with a specific blood type.





# GRANT CHART



Activity No.	Activity	Time (Weeks)	Preceding Activity
1	Planing	3	
2	Analysis	12	1
3	Desing	2	2
4	Implementaion	17	3





# PROJECT CHARTER



## General project informatios

### Project Name

EATA

### Project Champion

Layan Al-amri

### Project Sponsor

Reyouf Al-anazi

### Project Manager

Njoud Al-anazi

### Stakeholders

Hospitals , society

### Expected Start Date

14\6\2023

### Expected End Date

1\8\2023

## project Detail

### Describe

Application to facilitate the blood donation process. The Eata application provides an easy way for donors to book an appointment at the nearest place and time that suits them

### Vision

Our vision is to increase the culture of voluntary blood donation in pursuit of the goal of the Kingdom's Vision 2030 to reach voluntary blood donation by .100 %

### Risks

We risk financial losses , debt increase and also operational risk





# AGILE METHODS



- For our project, choosing Agile methods worked for us. It depends on providing real initial data during successive periods of time to the donor, which the donor can use and evaluate and give feedback.
- more specifically Kanban methodology aims to give team members just enough work so the team is consistently working at capacity. Teams that practice Kanban benefit from flexible planning, clearer focus, and total transparency because whatever's on the board is the top priority. That's what developers are working on. Kanban is great for operational teams focused on continuous delivery with changing priorities.





# FEASIBILITY STUDY



Economoc feasibility	Social and environmental feasibility
<ul style="list-style-type: none"><li>• <b>Intangible benefits :</b> increased flexibility 3,000RS increased speed of activity 5,000SR Reduction of resource waste 15,000SR  *Total :23,000SR</li><li>• <b>tangible cost:</b> Software Development. 15,000 SR  *Total: 15,000SR</li><li>• <b>Intangible cost:</b> data storage 10,000SR  *Total: 10,000</li><li>• <b>Total: 48,000SR</b></li></ul>	We focus on the values that we will add to society, such as job opportunities, and raising awareness of the importance of blood donation
	Technical feasibility
	What will clients benefit from the project? Ease of donating blood by locating the nearest donation center
	Legal feasibility
	We focus on ensuring that our work does not conflict with legal requirements such as data protection laws and others





# GATHERING REQUIREMENT



- We use - interviews - for the requirements gathering stage, we interview the following: Hospital owners - donors

Interview	Questions	1st Answer	2nd Answer
Donors	<p>Q1: Do you find it difficult to find places to donate?</p> <p>Q2. Would you like to know the percentage of donations in Saudi?</p> <p>Q3. What do you think about a program that collects donation centers in Saudi Arabia all in one place?</p>	<p>A1. Yes</p> <p>A2. Yes, that would be good to know</p> <p>A3. I think that would be a great way to make the process of donation easier and faster</p>	<p>A1. Sometimes yes, either because of the distance between the house and the center or because the center is crowded</p> <p>A2. Yes, because it is good to know, and it may motivate people to donate blood</p> <p>A3. It's a great and very beneficial for the hospitals and for the donors also</p>
Hospital owners	<p>O1. Do you find it difficult to collect donations?</p> <p>Q2. Do you want to know the most donated blood type in the Kingdom?</p> <p>Q3. What do you think about a program that collects donor registration in the Kingdom of Saudi Arabia?</p>	<p>A1. Sometimes, when there are many donation campaigns, there is a lot of overcrowding when registering, which results in wasting time for the hospital and for the donor as well.</p> <p>A2. Yes, even when there is a shortage of a certain type, we can send a request for it</p> <p>A3. It's very good, because this will make it easier for hospitals to record appointments and set times, and for donors, it reduces crowding and waiting at reception for a long time in order to register</p>	<p>A1. Yes, we as an administration find it difficult</p> <p>A2. Yes sure, that helps us a lot.</p> <p>A3. I think it will be very useful and result in an increase in donors for the ease of procedures</p>





# REQUIREMENTS



## FUNCTIONAL REQUIREMENTS

1. The system must allow users to make an account by Registering (first name, last name, phone number, birthday (age), blood type )
2. The system must allow users to modify their data
3. The system must allow users see nearby hospitals: by showing a map with all the available blood banks
  - 3.1 The system must allow users to choose the type of donation methods: whole blood, platelets, vehicle:
    - 3.1.1 The system must allow users to see how far or close the hospital or vehicle is by showing the distance in kilograms.
    - 3.1.2 The system must allow users to search for a specific hospital.
4. The system must allow users to see all of his previous donations: date, amount of blood down, time, place
5. The system must allow users to book appointment
  - 5.1 The system must allow users to showing the available time slots.
  - 5.2 The system must allow users to see the weekly donation goal, and how much was achieved.
6. The system must allow users to see the overall percentage of doners and in their specific city
  - 6.1 The system must allow users to see total donations based on gender
  - 6.2 The system must allow users to see the profiles of highest donaners
  - 6.3 The system must allow users to see friends from there contacts that also have the app.
  - 6.4 The system must allow users to see what blood types they can donate ( gives a brief summary of each blood type how rear it is, who they can donate to or receive from. )
7. The system must allow users to contact Eata by sending an email

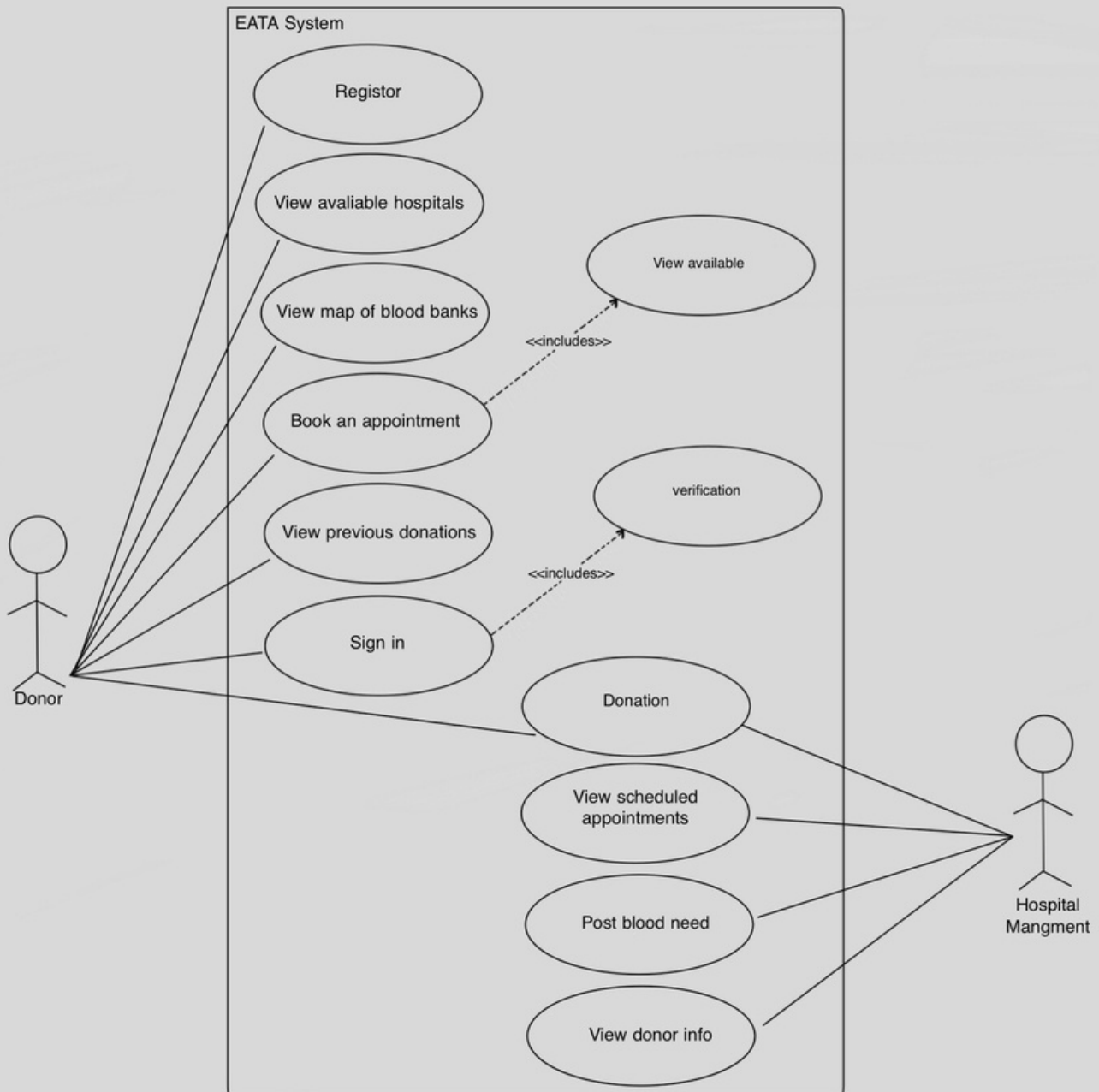
## NON- FUNCTIONAL REQUIREMENTS

1. Operational
  - 1.1 The system will be able to operate on Android and IOS
2. Performance
  - 2.1 The systems response times must be less than 5 seconds
  - 2.2 The systems should be available for use 24hrs per day for 365 days a year
  - 2.3 The donations database must be updated in real time
3. Security
  - 3.1 The system shall a sure all data inside the system will be protected unauthorized access.
4. Cultural and Political
  - 4.1 The system shall comply with Ministry of Health standards
  - 4.2 The system shall comply with all applicable laws and regulations.





# USE CASE DIAGRAM

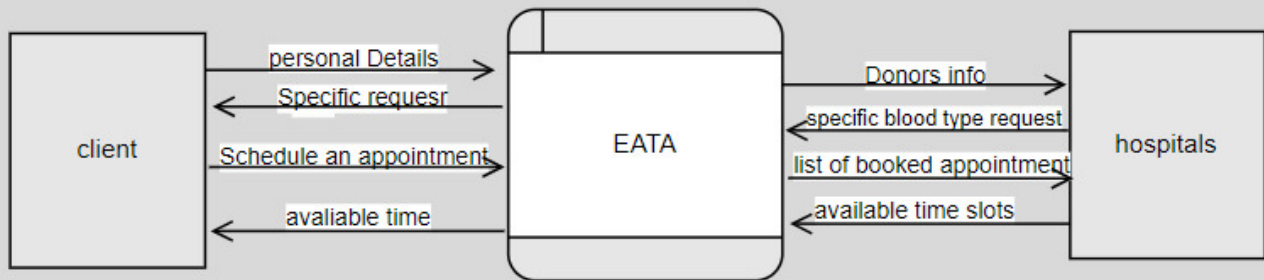




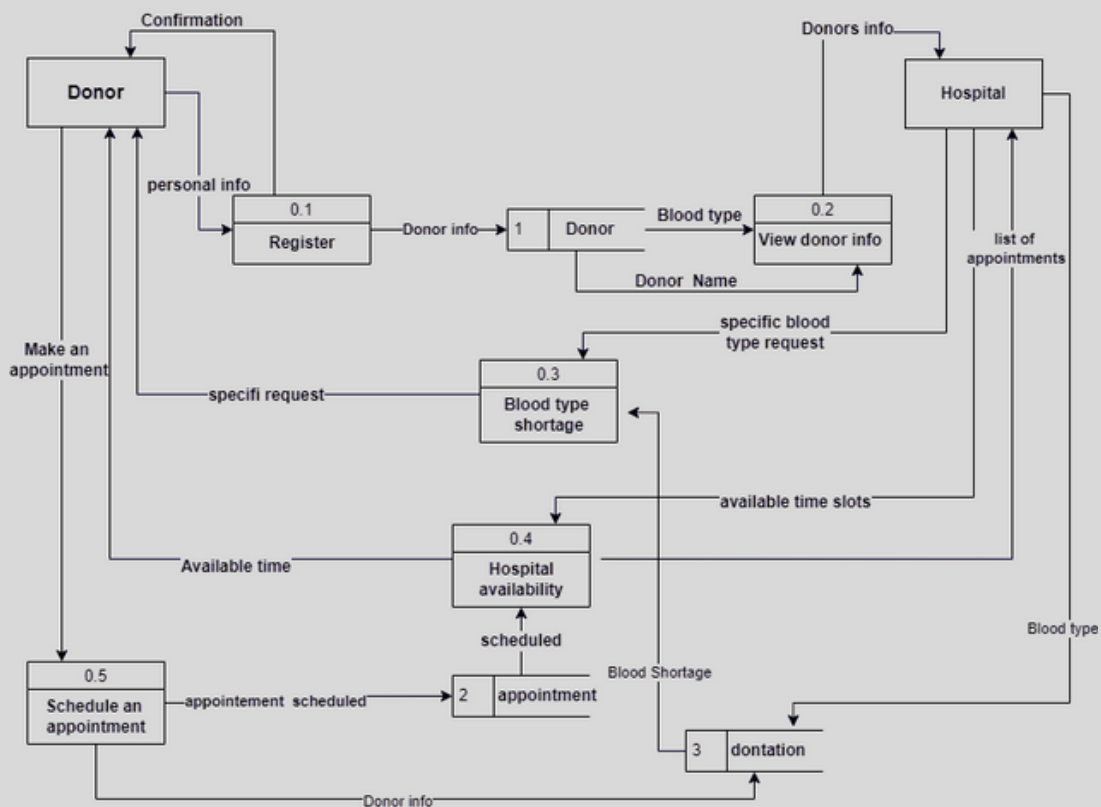
# DFF DIAGRAM



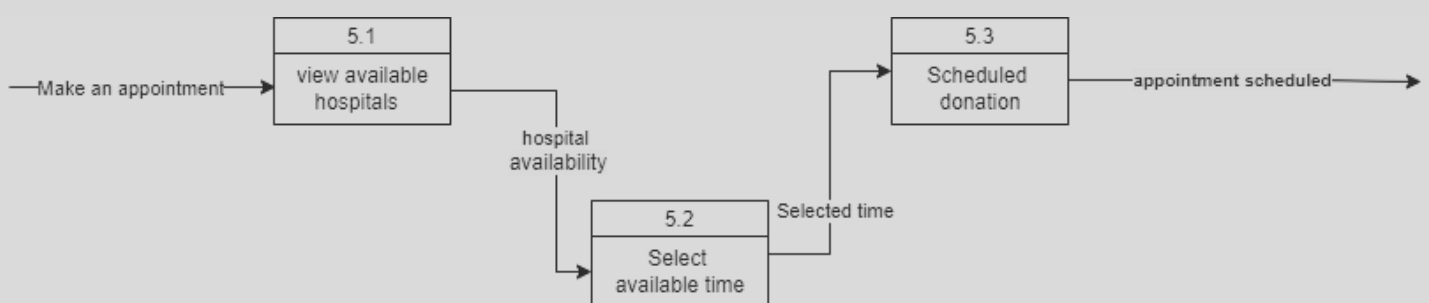
- DFD CONTEXT DIAGRAM



- DFD LEVEL-0 DIAGRAM

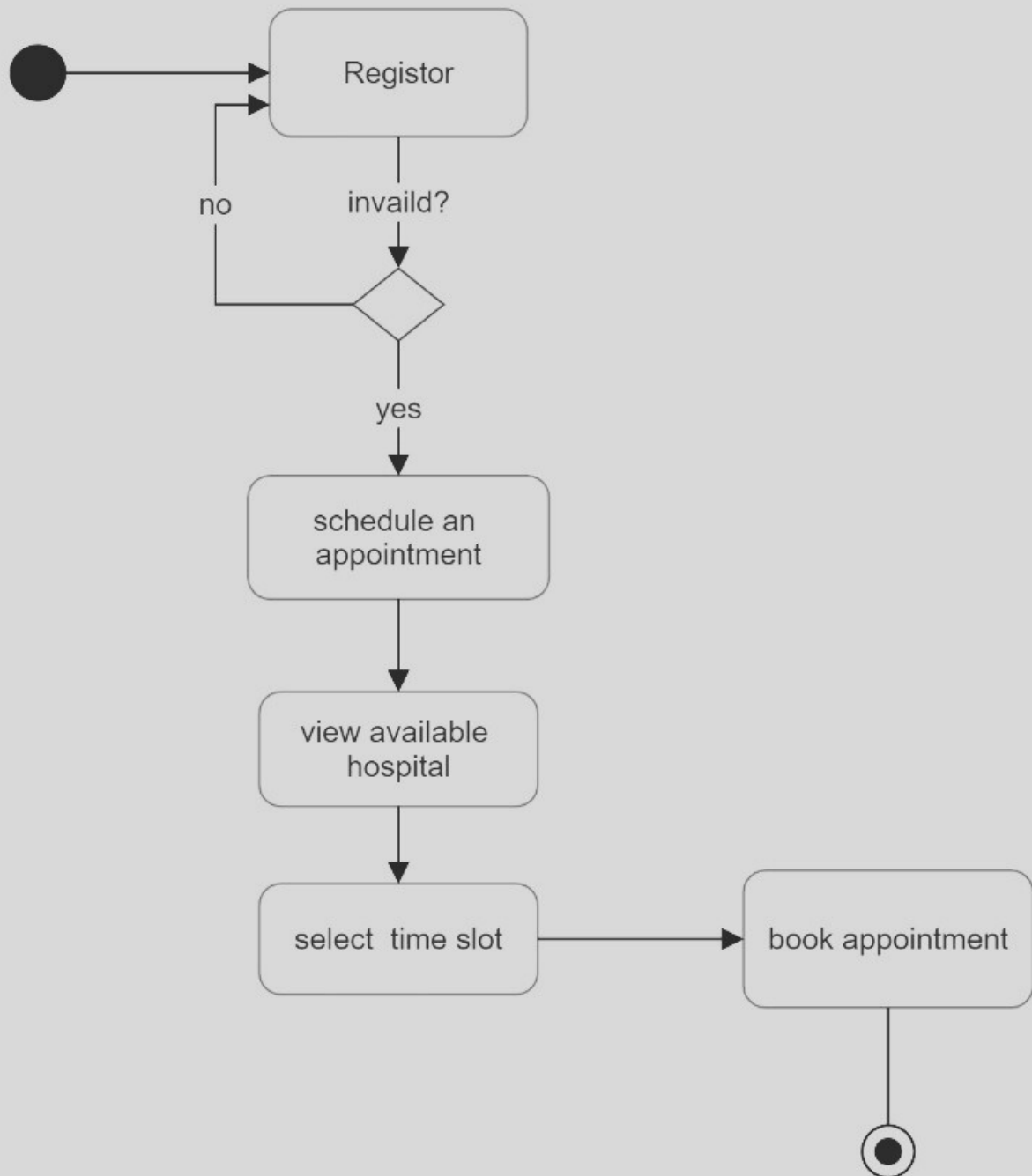


- DFD LEVEL-1 DIAGRAM



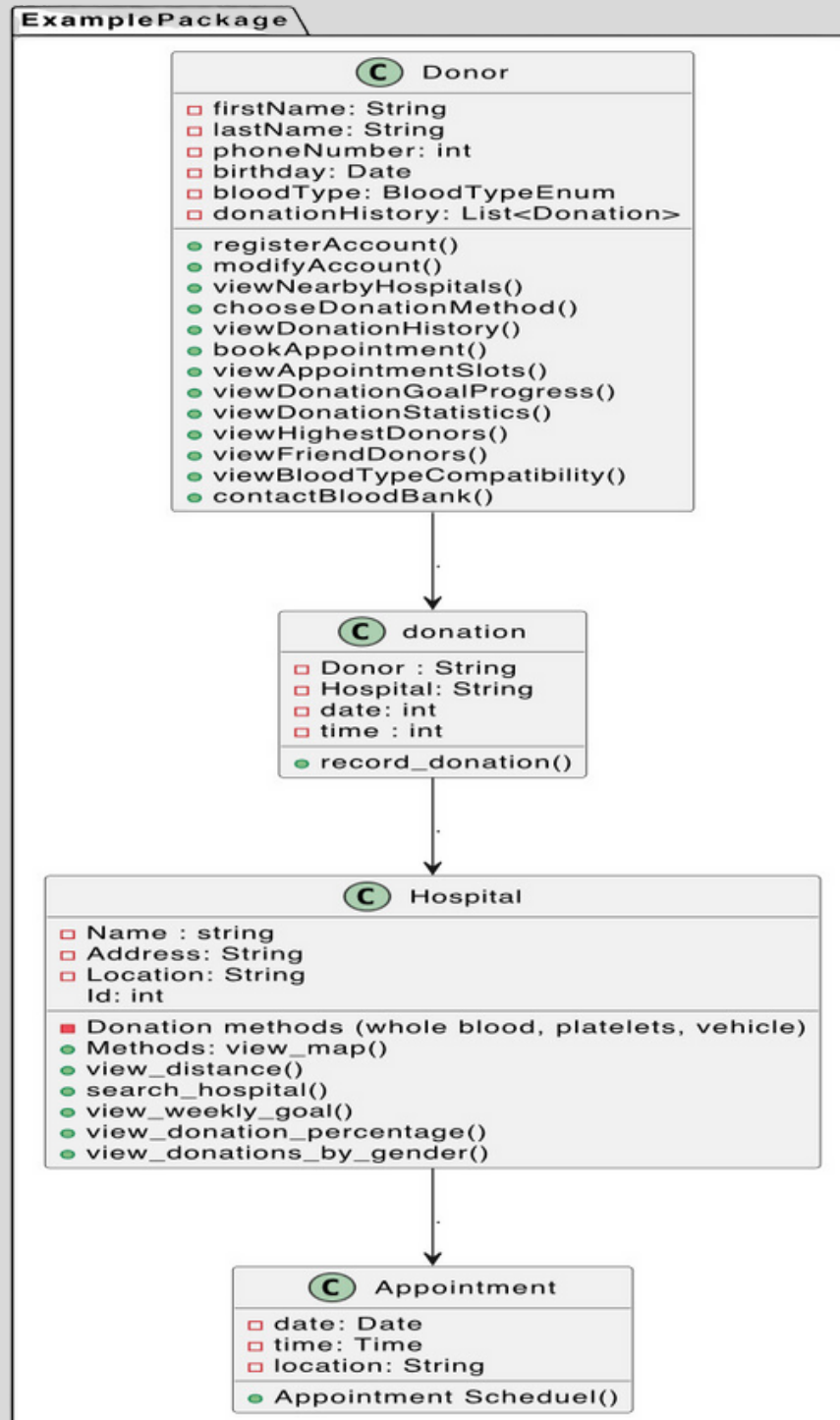


# ACTIVITY DIAGRAM



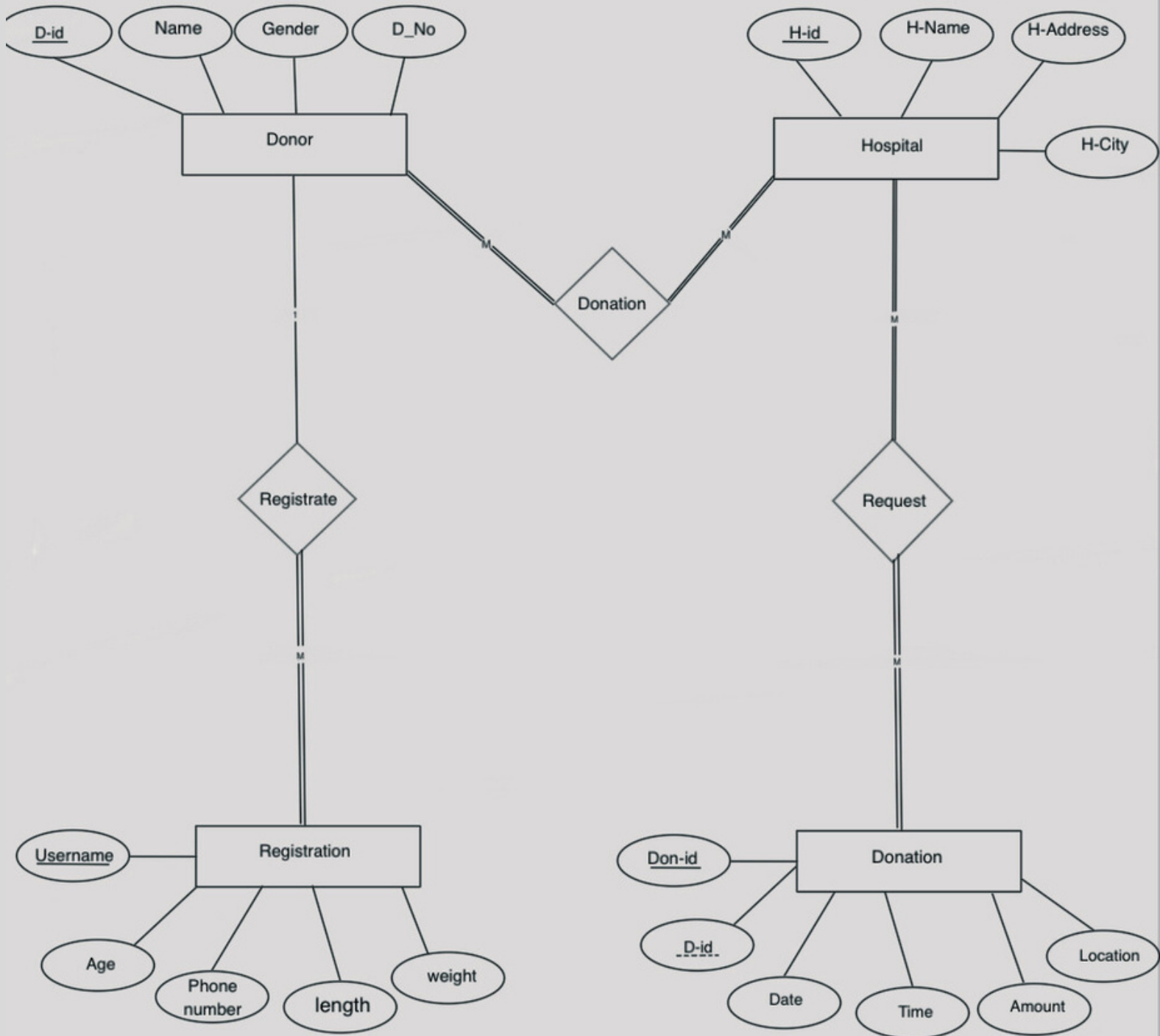


# CLASS DIAGRAM

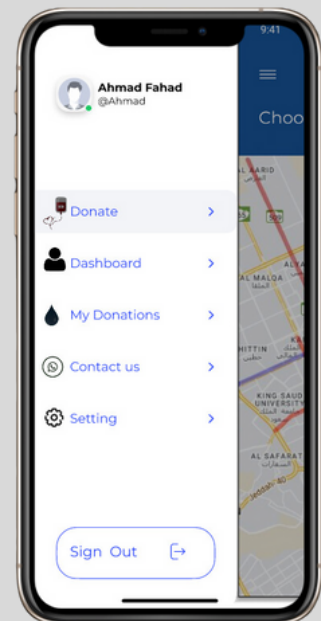
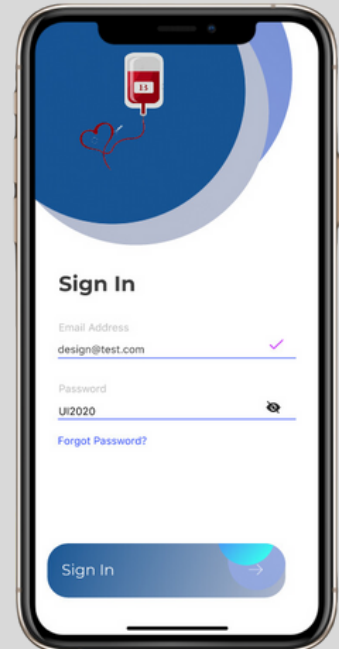




# E-R DIAGRAM



# USER INTERFACES DESIGNS





# EATA

