



**GTU Department of Computer Engineering
CSE 222/505 – Spring 2021**

**GROUP 6
PROJECT REPORT 2**

**Instructor
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1. PROBLEM DEFINITION

Covid-19 has emerged and has spread over a wide area in more than one country or continent in the world and has caused epidemic diseases. This fully meets the concept called pandemic.

Considering the spread rate of the Covid-19 and its effect on human health, it has been declared as a pandemic in order to increase protective measures in general. Since this pandemic is difficult to manage only by the Ministry of Health, we decided to write a patient follow-up program to help the country. In this patient monitoring system, we aimed to make the process more effective and more sustainable by addressing the basic problems such as how sick and to whom the drugs should be given in hospitals, from which age group the vaccination should start and the communication between doctors and patients.

2. USERS OF THE SYSTEM

2.1 The Minister of Health

The minister's job is to manage hospitals, supply vaccines to these hospitals on demand and announce the daily statistics about covid-19.

2.2 Chief Physician

Chief physicians can add or remove hospital personnel, inquire hospital data such as personnel information, occupancy of rooms, bed counts, vaccine supply etc.

2.3 Doctor

Doctors can add/remove a patient to/from the system and vaccinate the patients

2.4 Nurse

Nurses can vaccinate, give drugs, and test to patient

2.5 Patient

The patients can sign up to the system for the vaccination. According to their test results, infected patients are given drugs and required to be quarantined in the hospital or in their houses depending on their ages. If the patients are not infected and they have no condition that can prevent them from getting vaccinated, they are put into the vaccination queue. Patients can track their information through the system.

3. SYSTEM REQUIREMENTS

3.1 Non-functional Requirements

1. Back-end software: Java 11
2. Hardware Interfaces: Mac, Linux and Windows operating systems
3. The system has an internal bug reporting system that keeps track of what types errors happened and when.
4. The system holds all the data to keep track of everything available in itself.
5. The system follows an TCKNO policy.
6. The system follows a password policy.
7. The program should be maintainable.
8. The program should be usable. It should be safe and effective for the users to perform the desired tasks.
9. The program should be extensible. It should be able to receive new features and customizations for the upcoming versions.

3.2 Functional Requirements

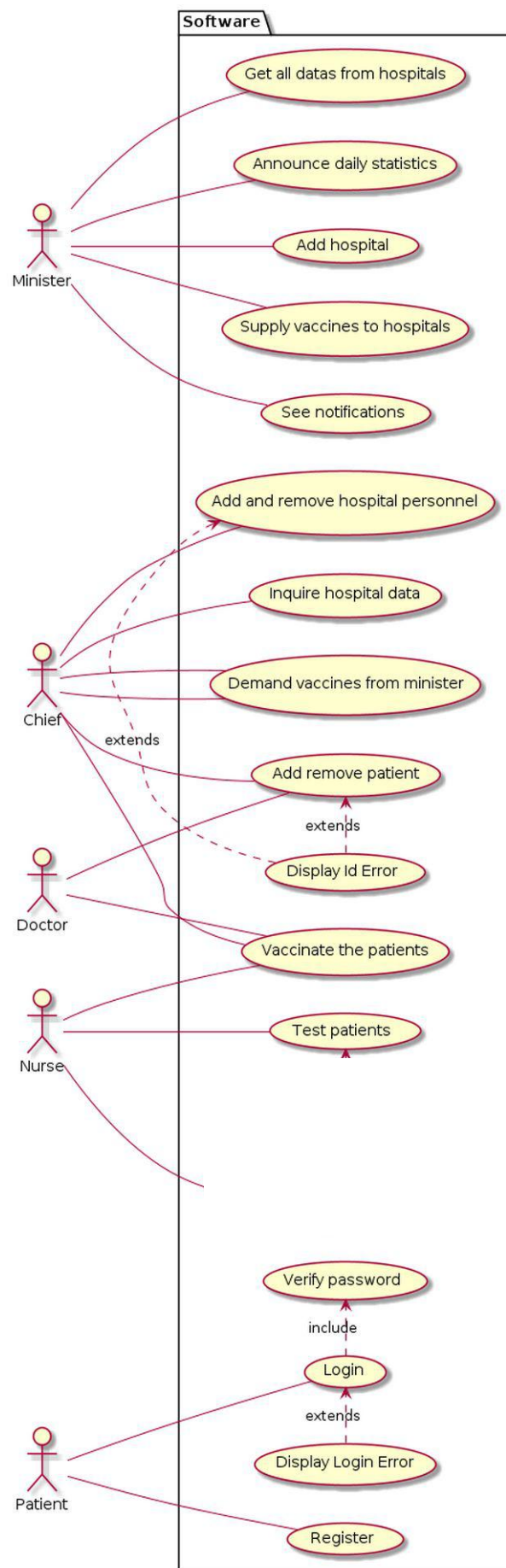
1. The system allows minister of health, chief physicians and doctors to login with their unique passwords.
2. The system allows minister of health to to manage hospitals supply vaccines to these hospitals on demand and announce the daily statistics about Covid-19.
3. The system allows chief physician to add or remove hospital personnel, inquire hospital data such as personnel information, occupancy of rooms, bed counts, vaccine supply etc.
4. The system allows doctors to add/remove a patient to/from the system and vaccinate the patients.
5. The system allows nurses to vaccinate, give drugs, and test to patient.
6. The system allows to sign up to the system for the vaccination. According to their test results, infected patients are given drugs and required to be quarantined in the hospital or in their houses depending on their ages. If the patients are not infected and they have no condition that can prevent them from getting vaccinated, they are put into the vaccination queue. Patients can track their information through the system.
7. The system allows users to look at the current statistics of Covid-19.

3.3 User Requirements

- 1.** The Minister of Health supply vaccines when requested and announce daily statistics about Covid-19.
- 2.** The chief physician can change hospital personnel by adding or removing, inquire hospital features and supply vaccine and drugs.
- 3.** The doctors can control the system by adding or removing patients, and vaccinate patients.
- 4.** The nurses can test and vaccinate the patients and give medicine to them.
- 5.** The patients can log into the system and view their own information on the system.

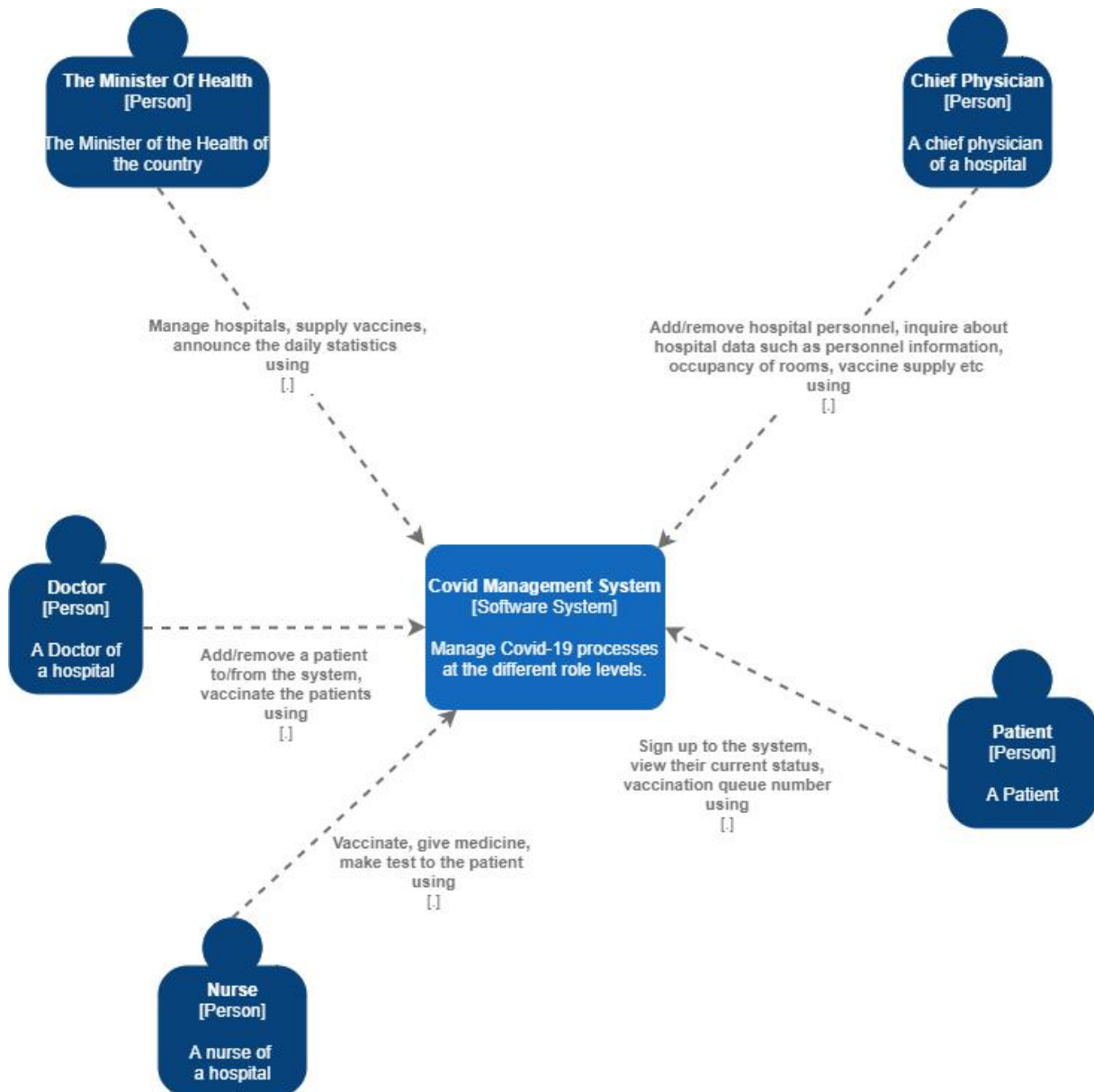
4. DIAGRAMS AND MODELS

4.1 Use Case Diagram

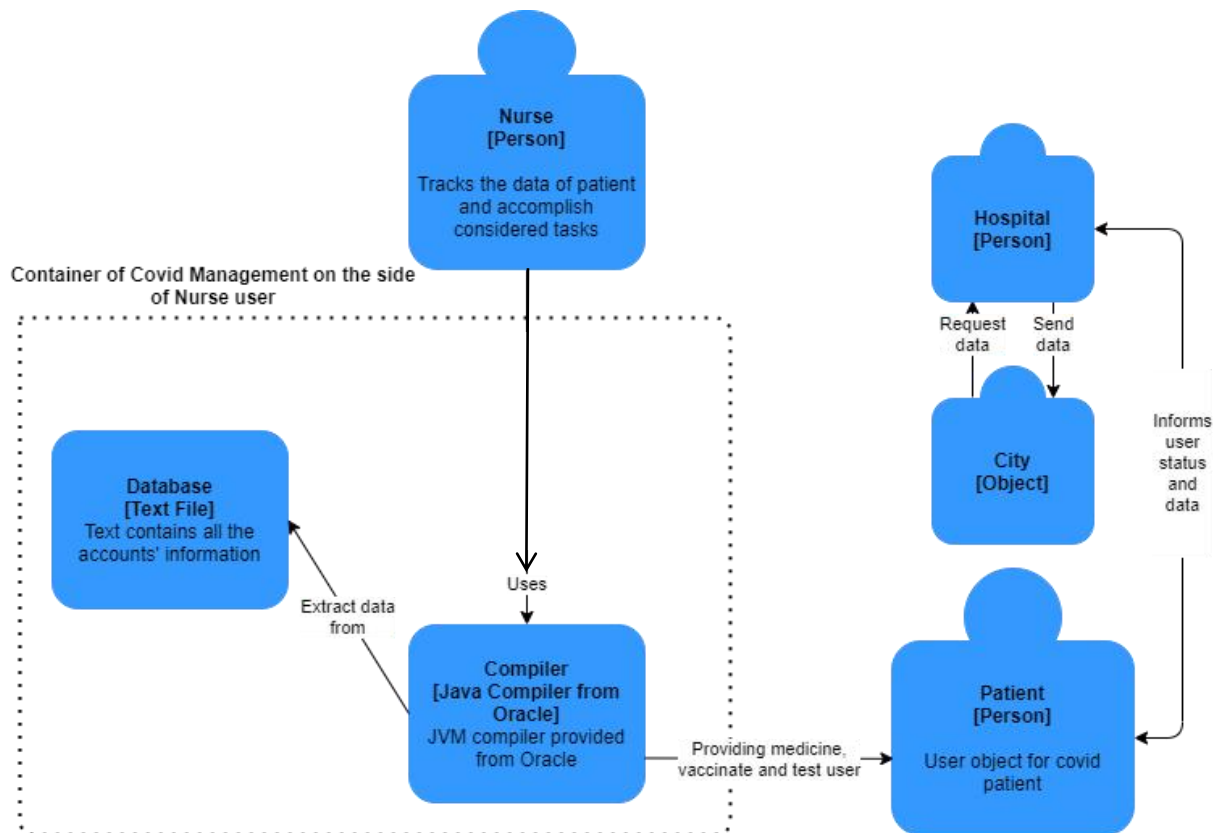
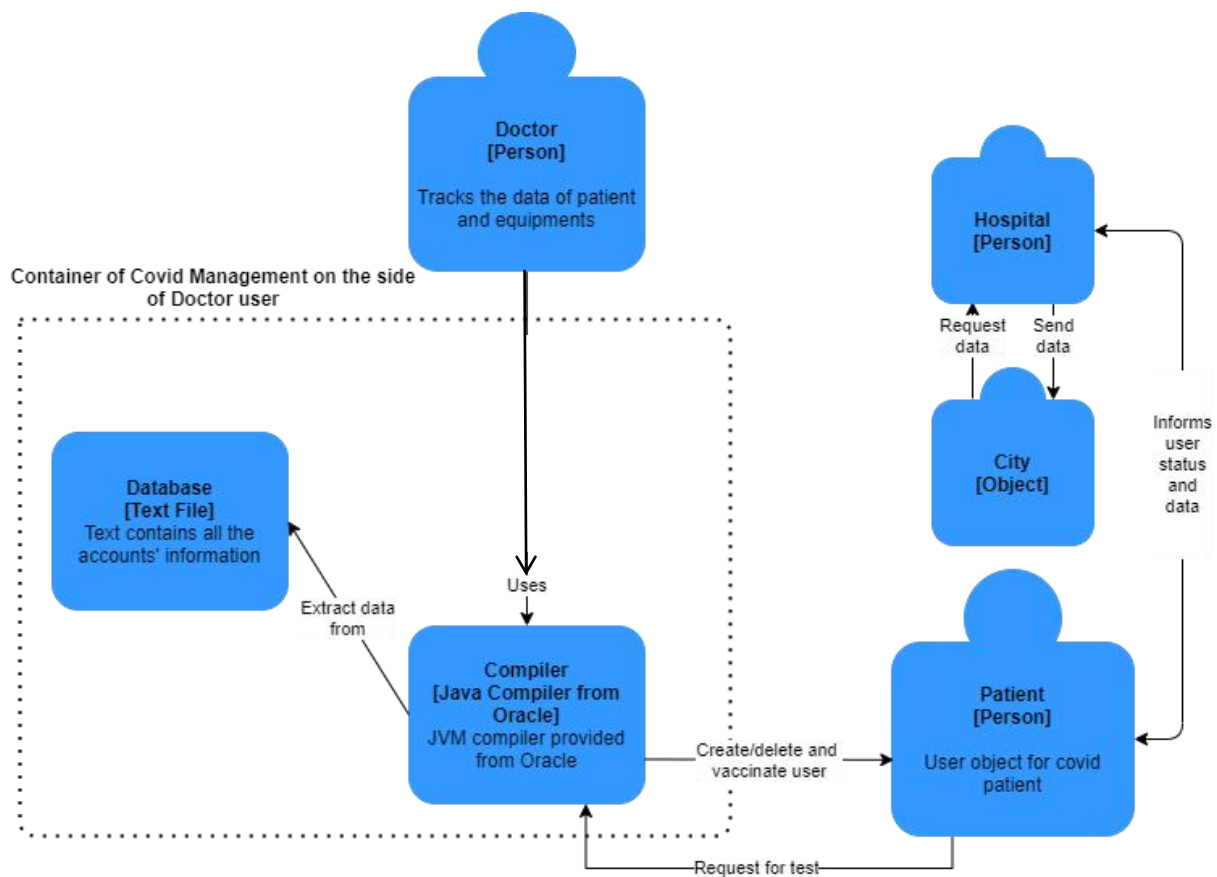


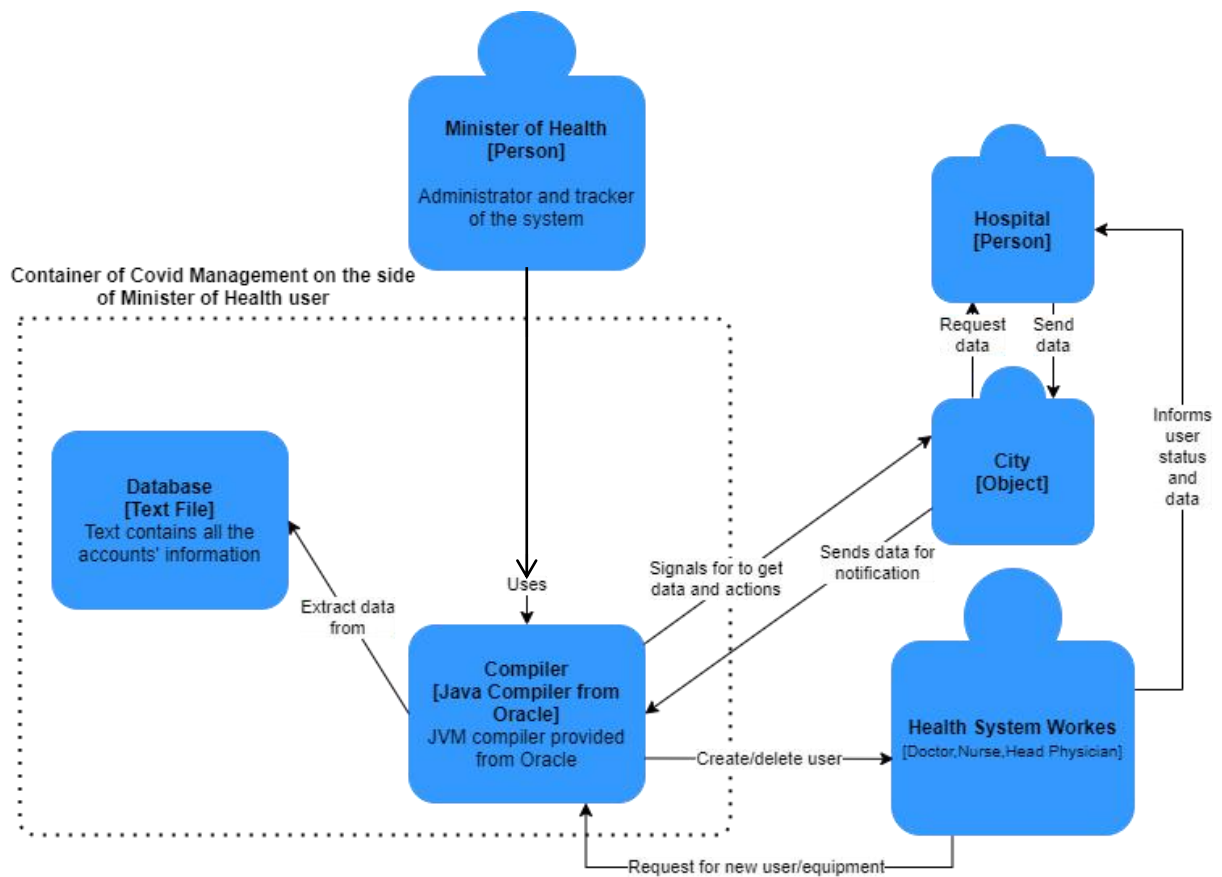
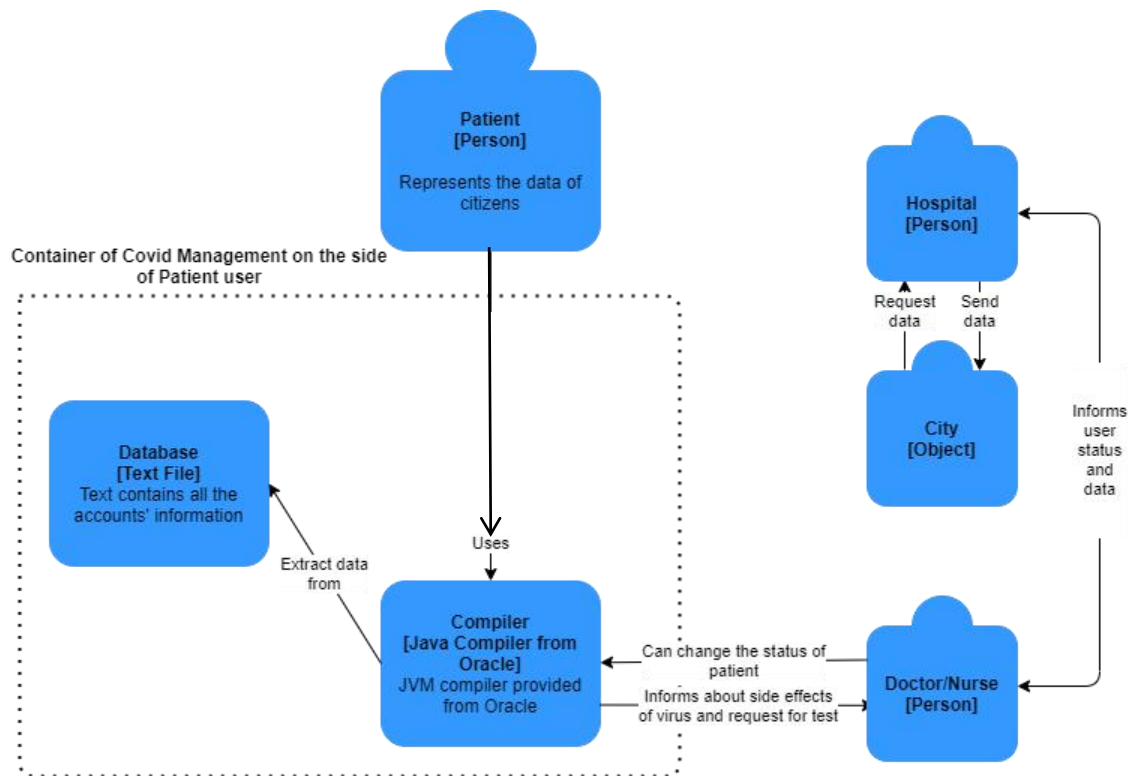
4.2 C4 Model

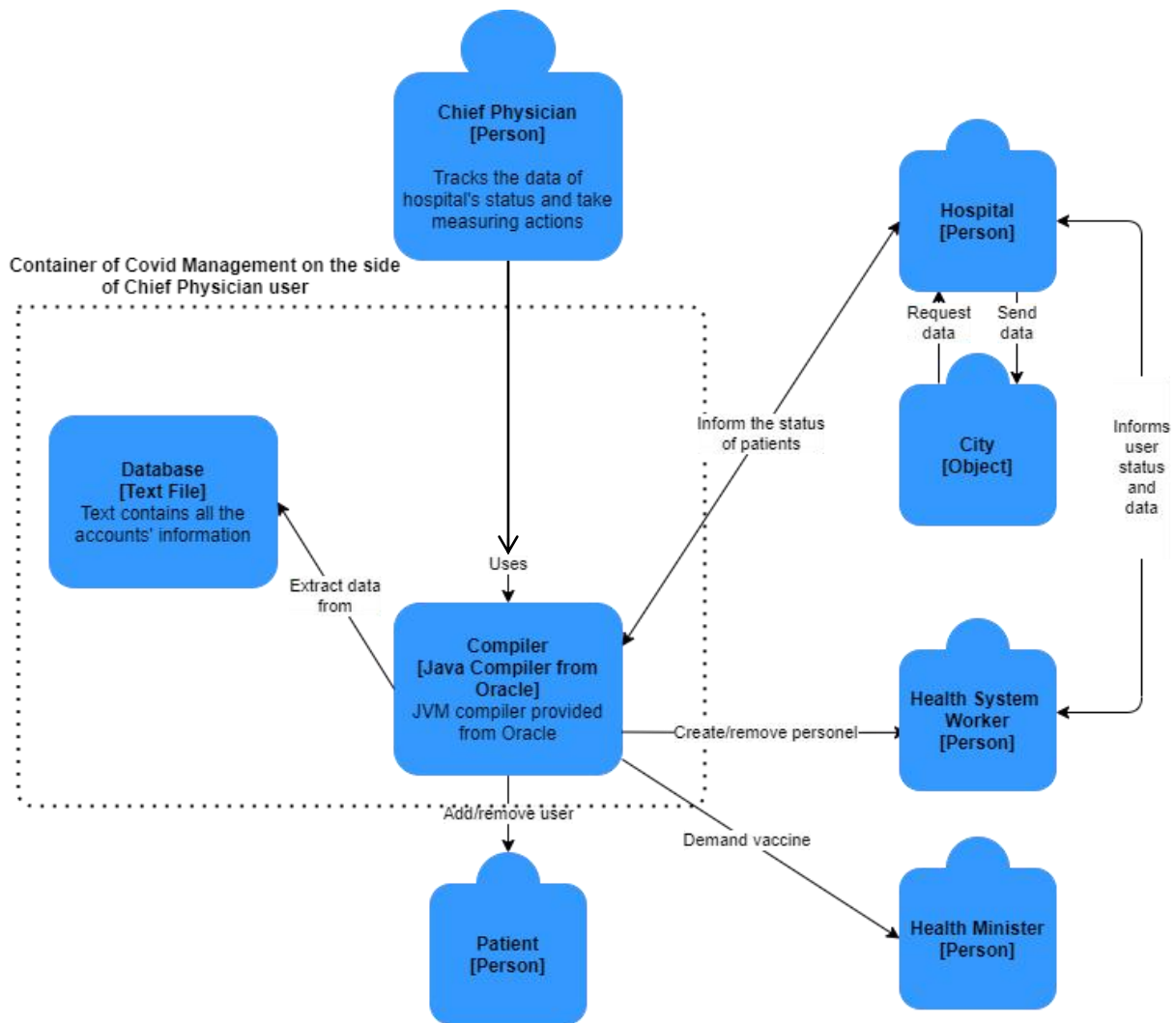
4.2.1 Level 1



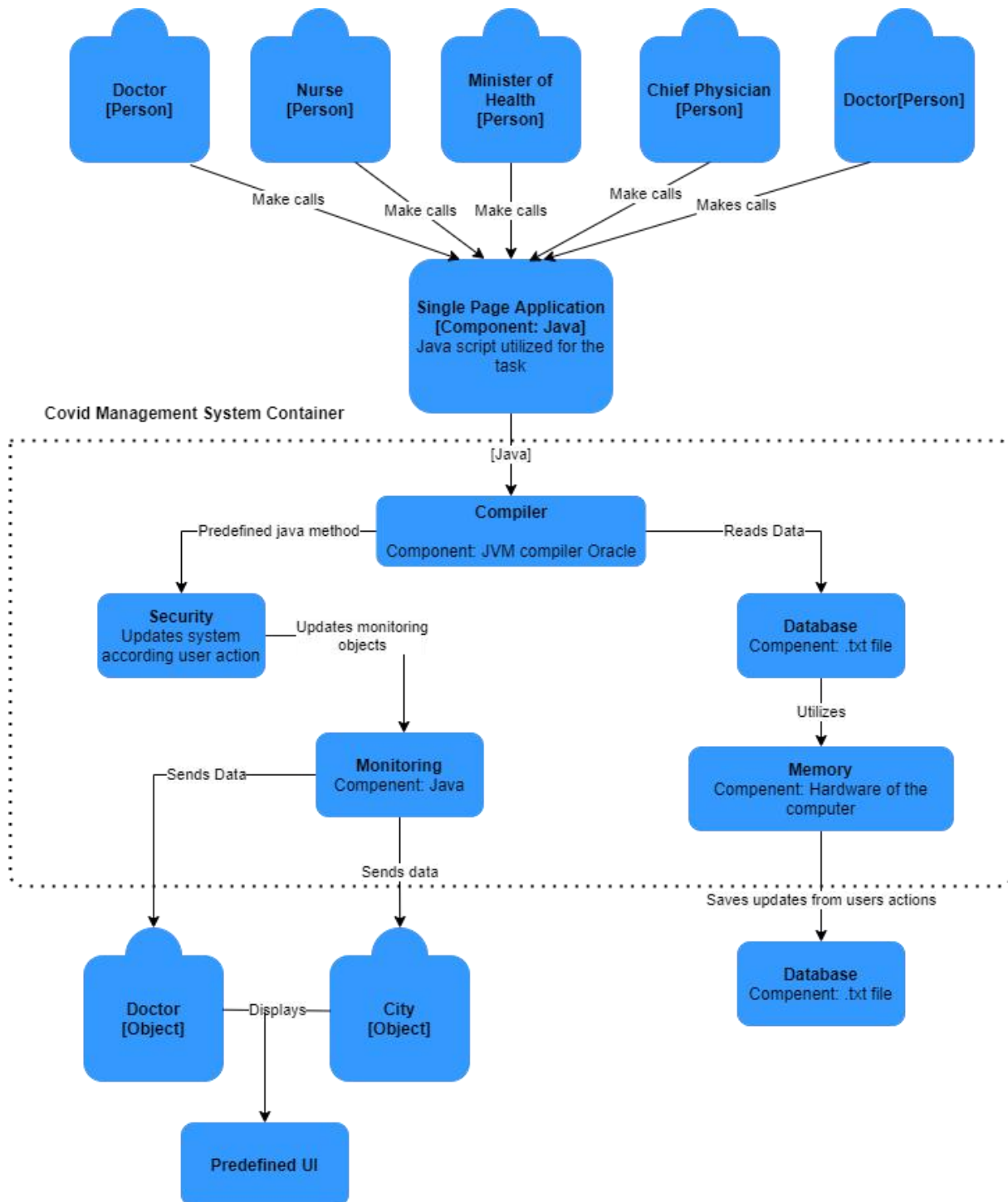
4.2.2 Level 2





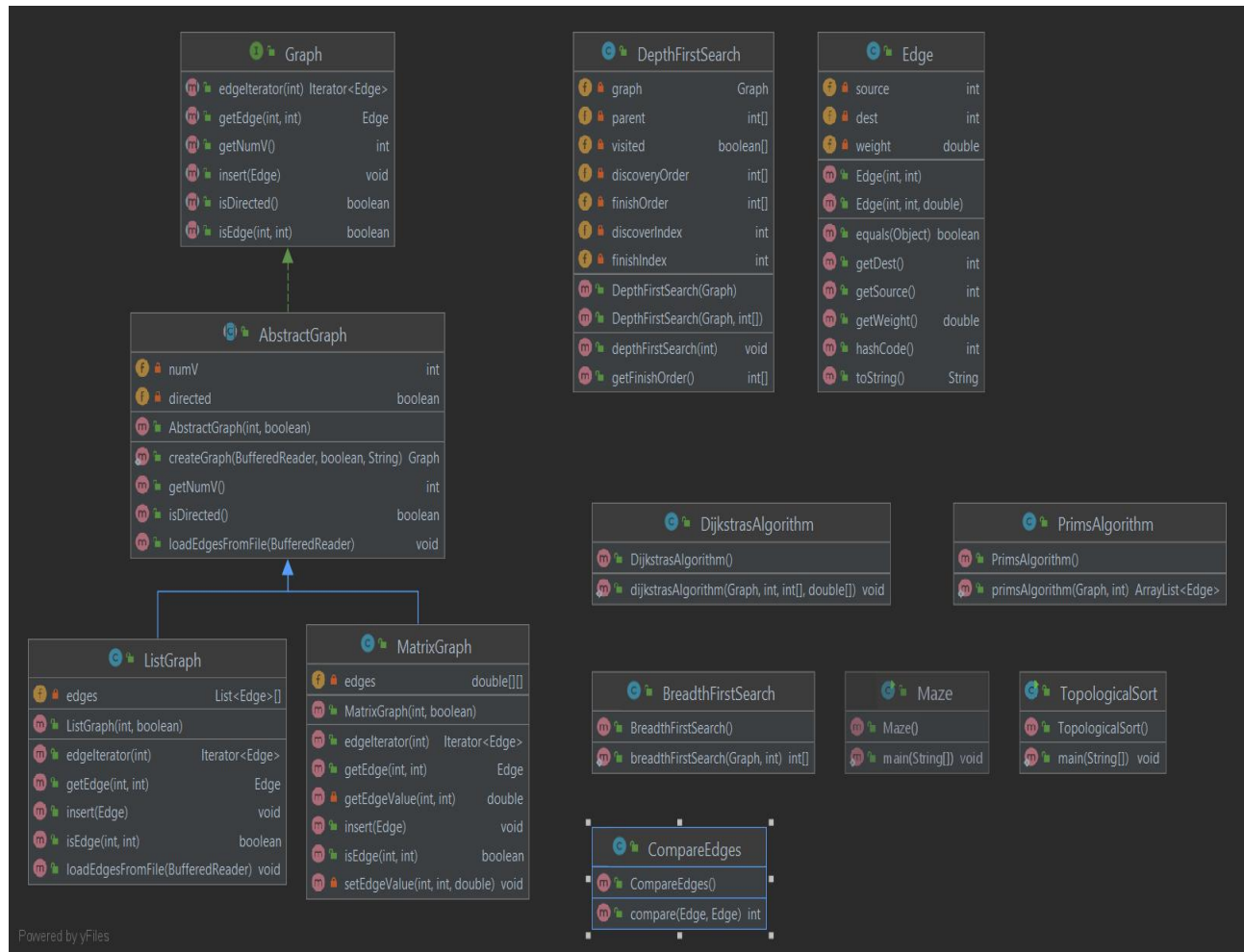


4.2.3 Level 3

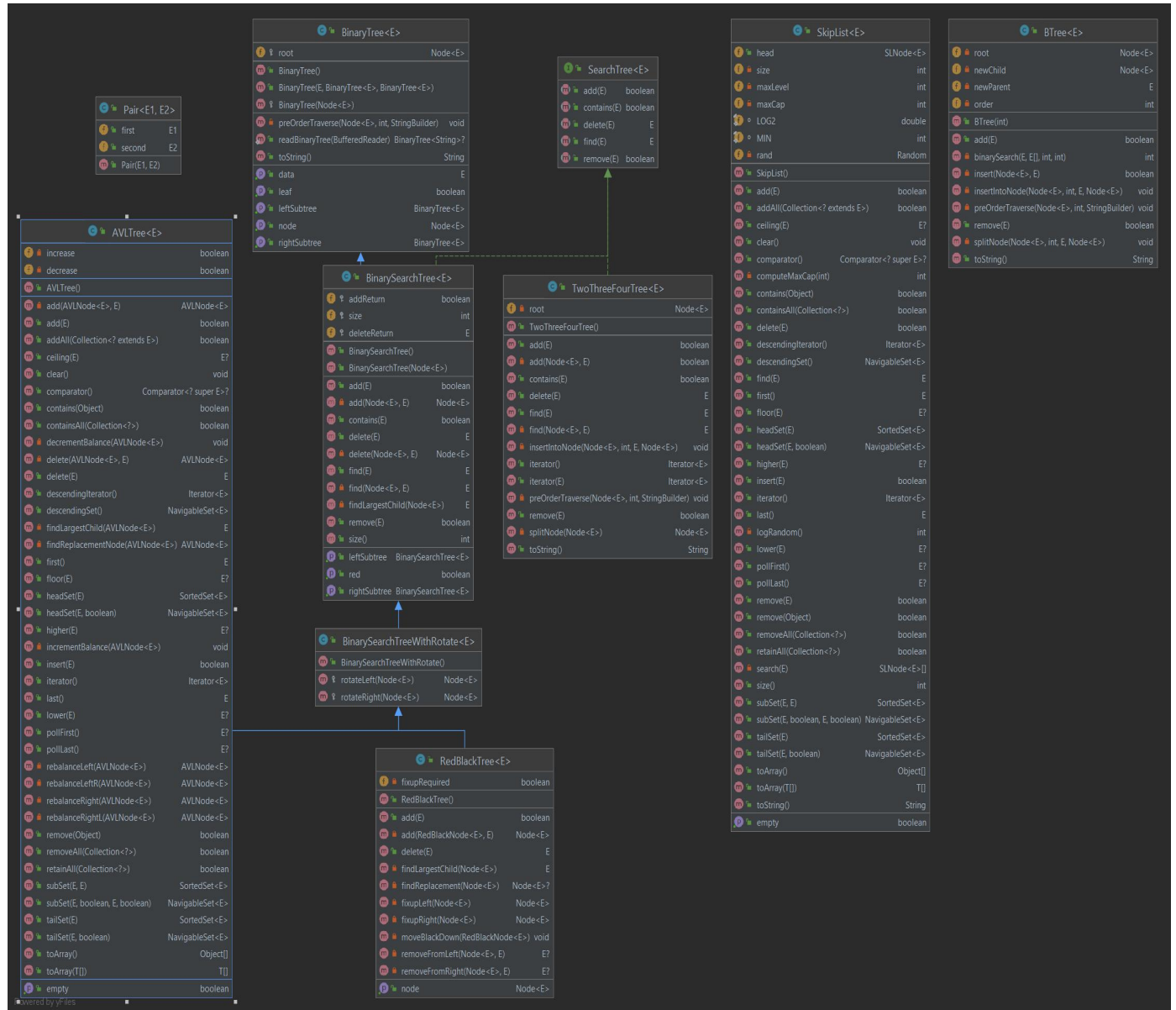


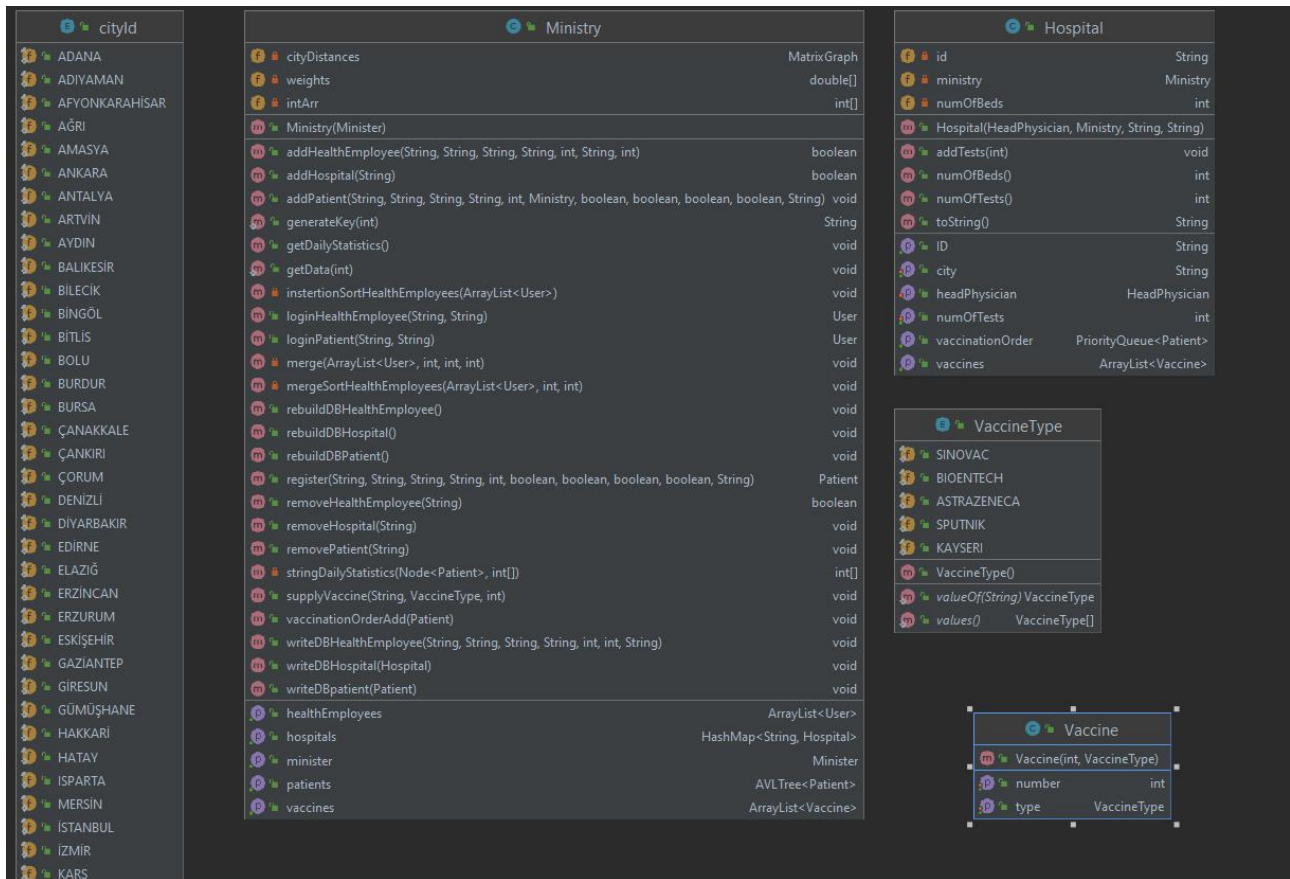
4.3 Class Diagram

Graphs

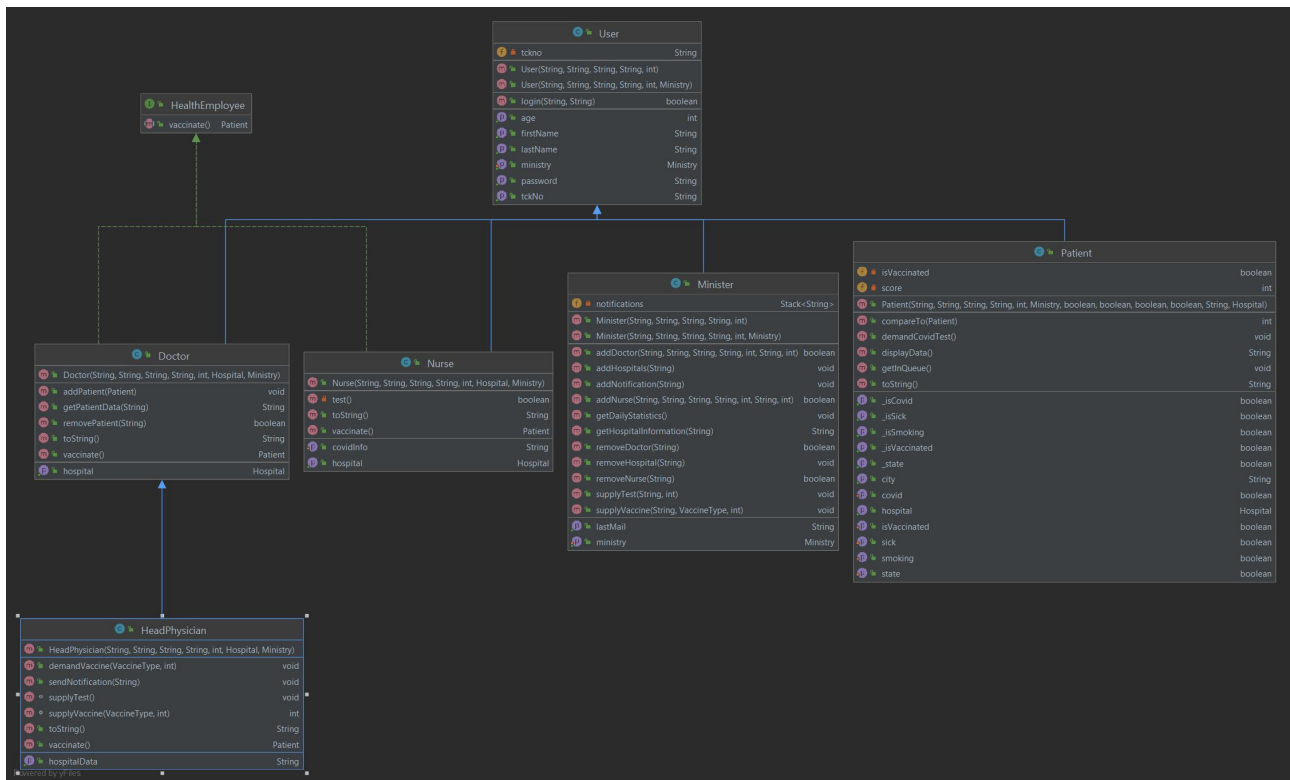


Trees

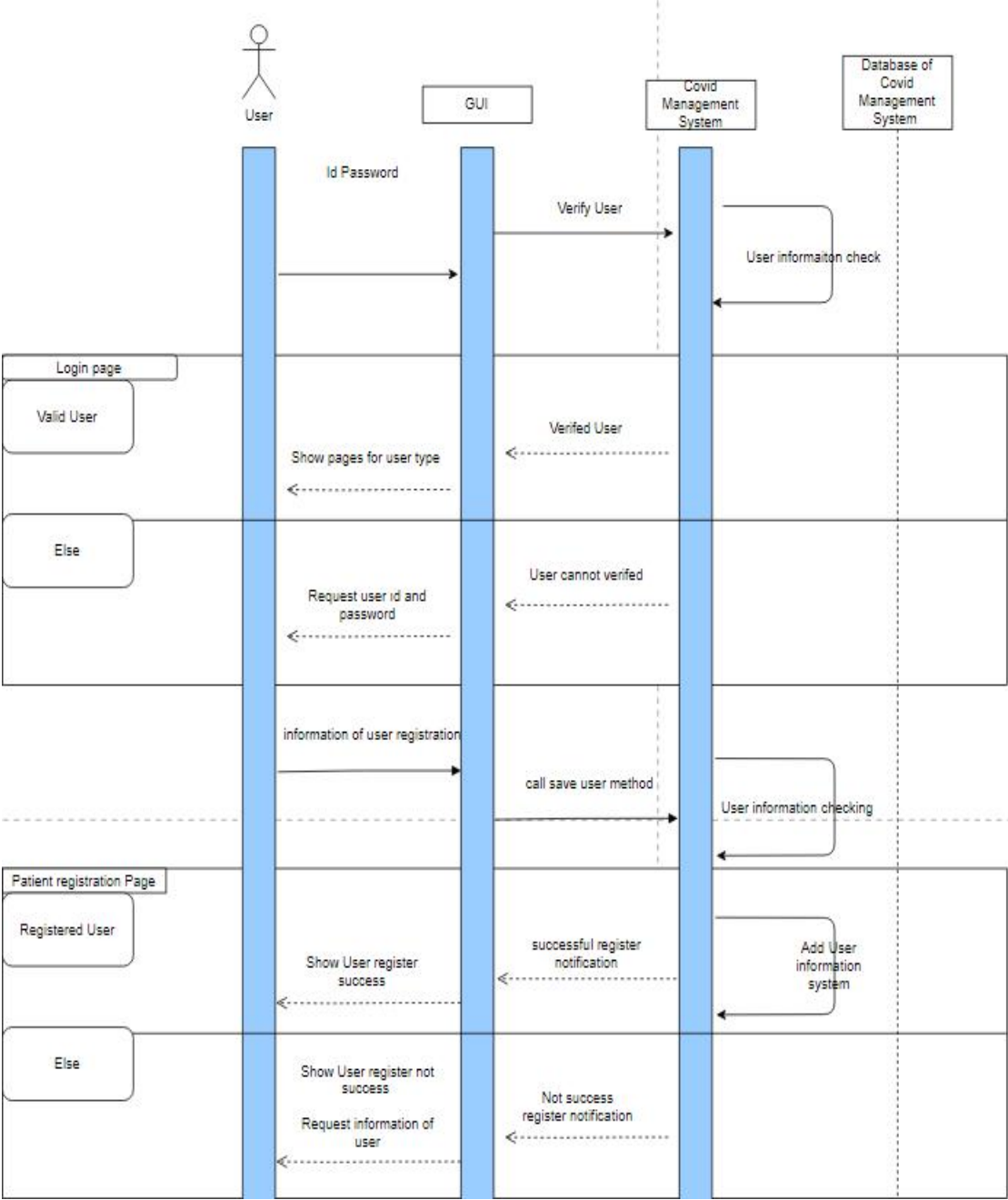


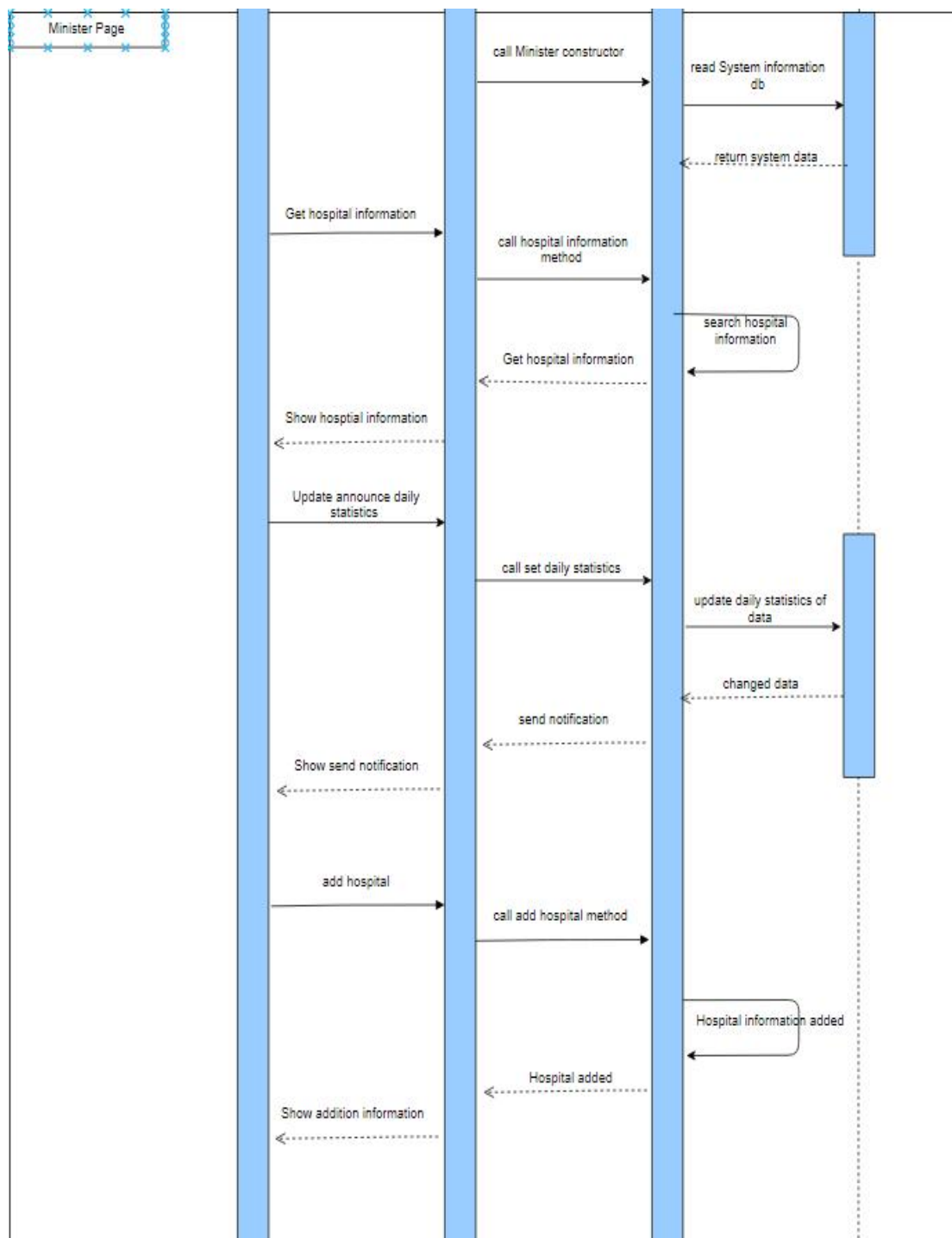


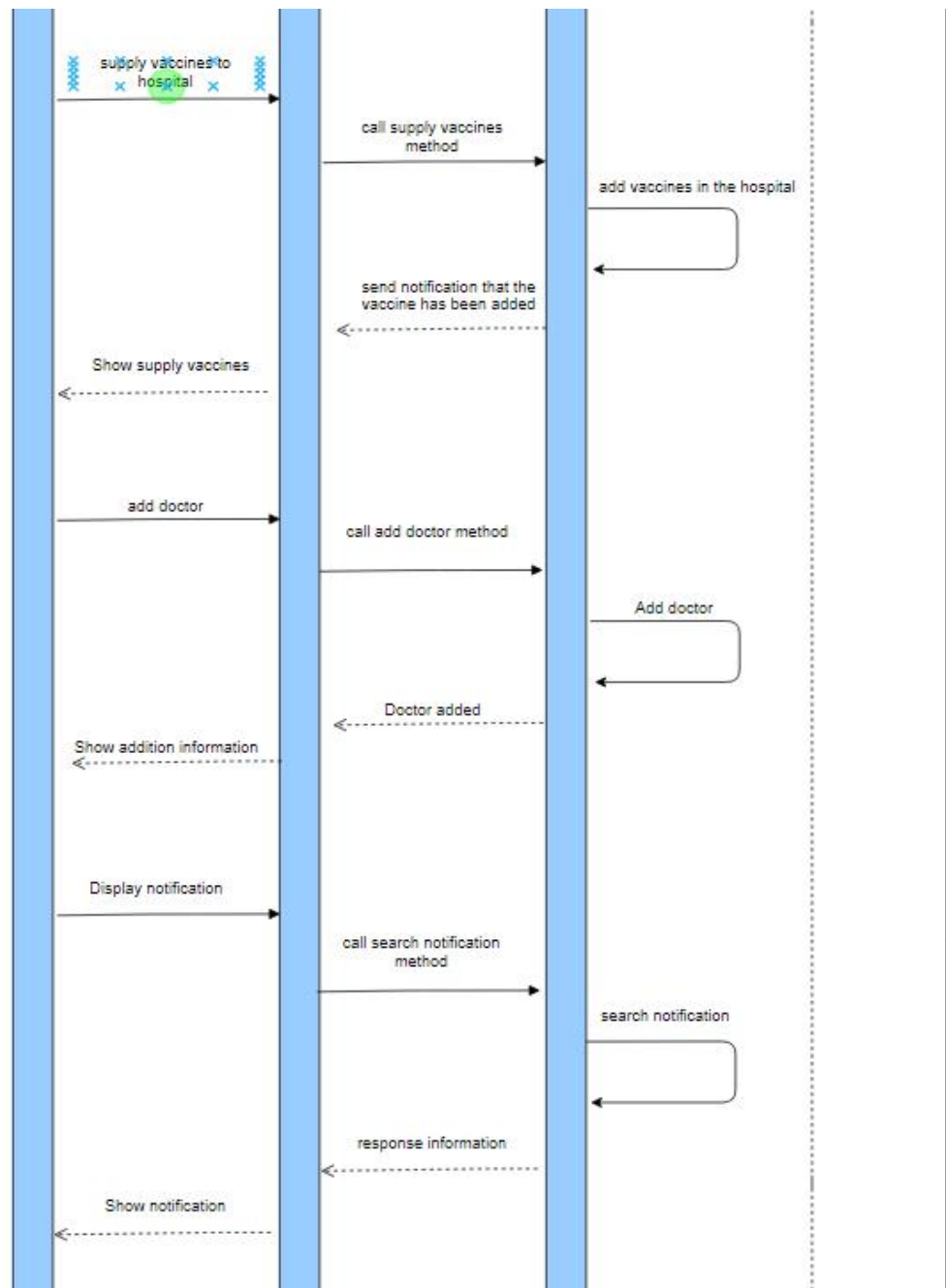
Users

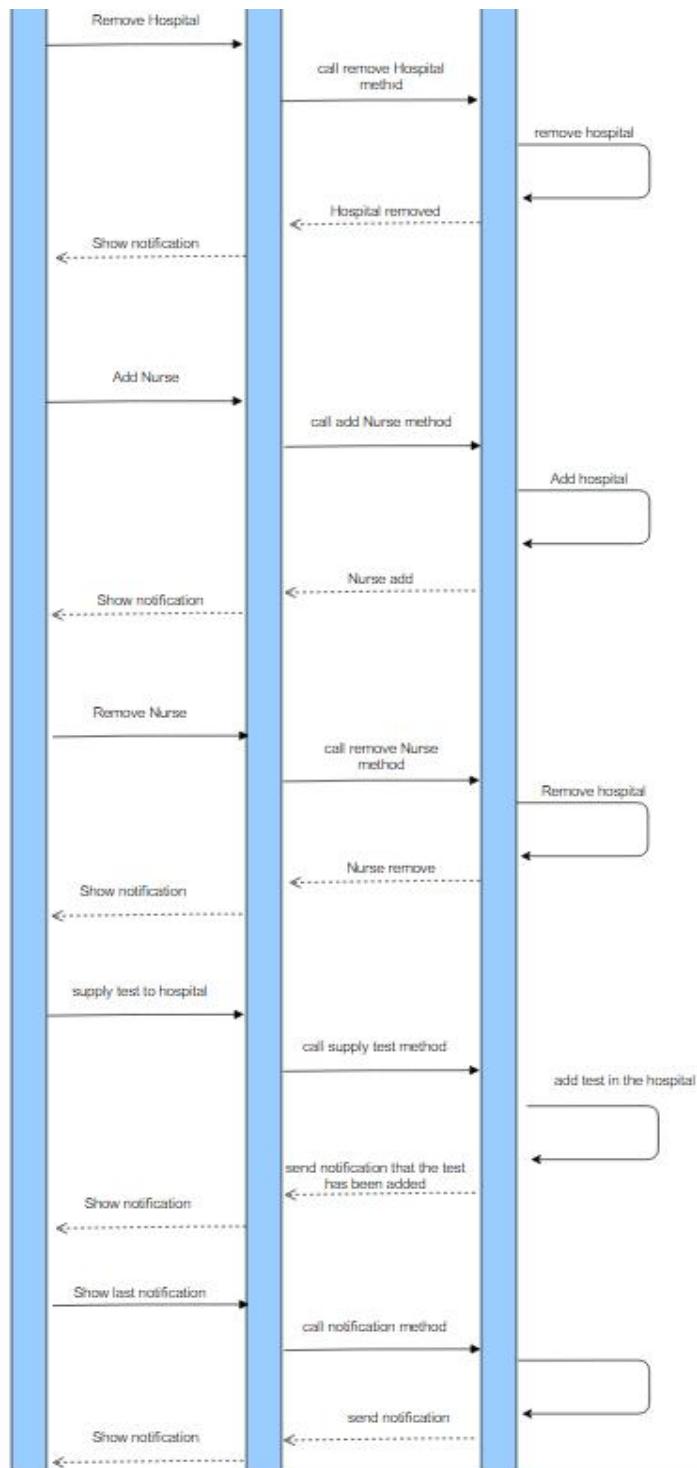


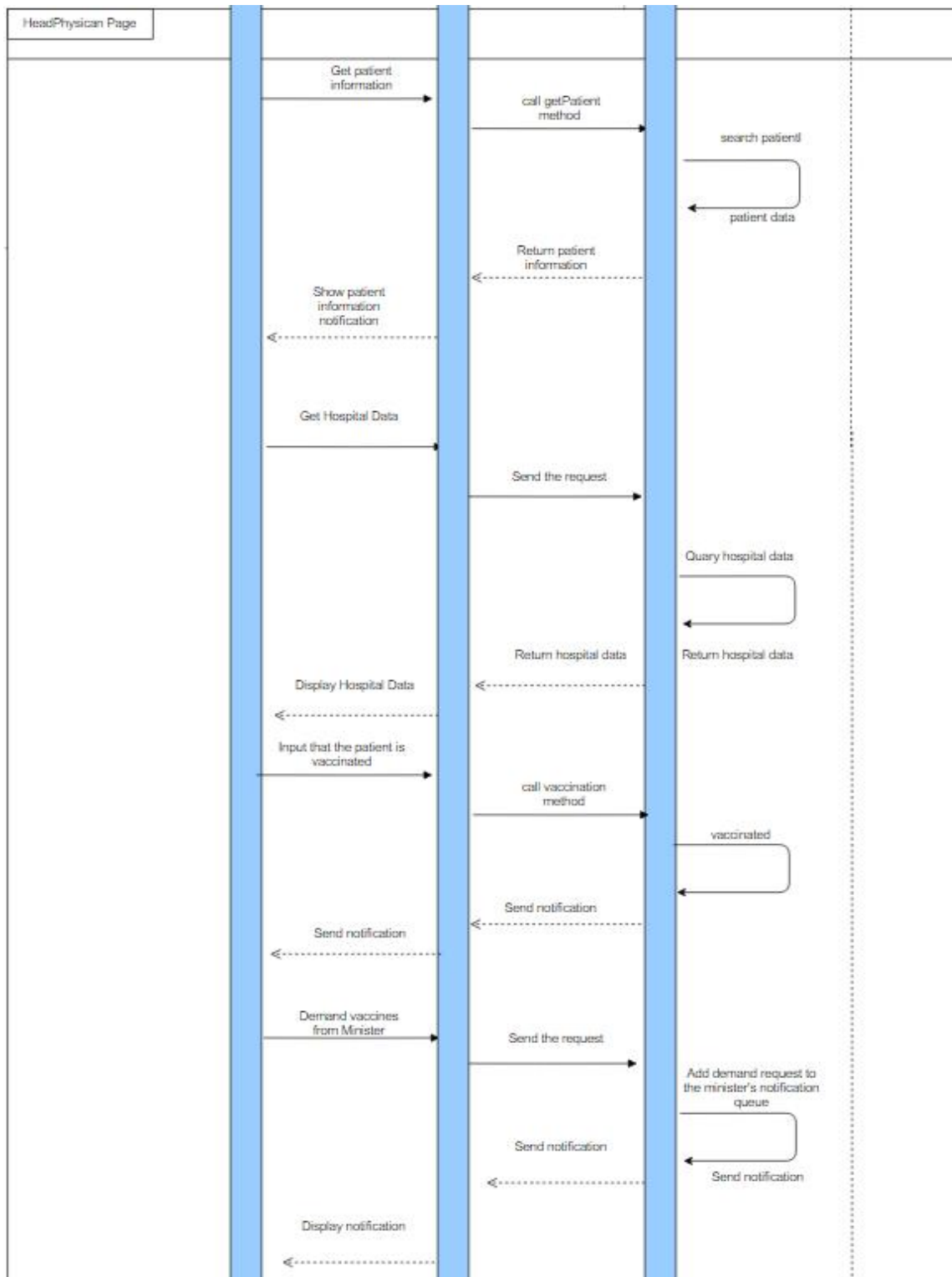
4.4 Sequence Diagram

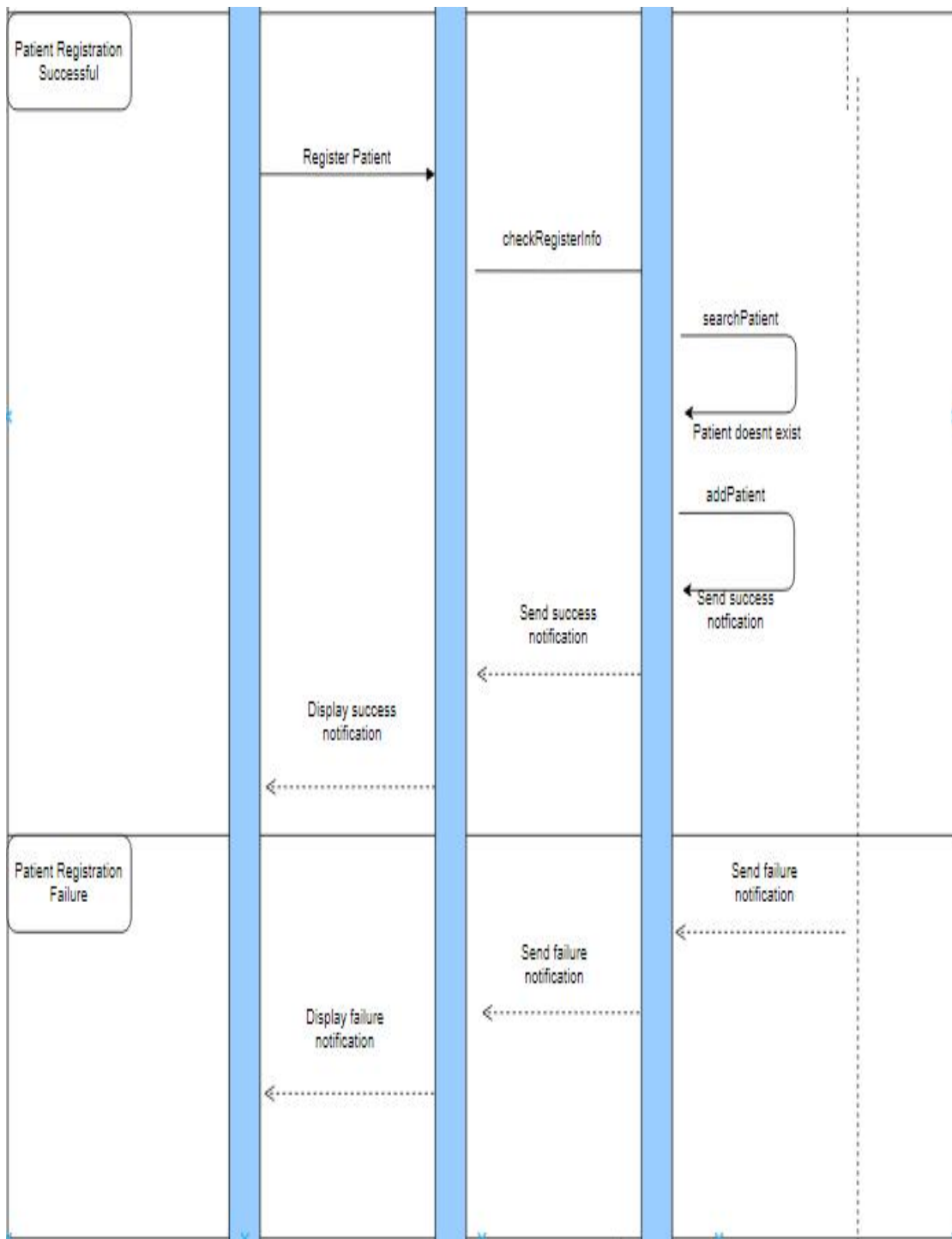


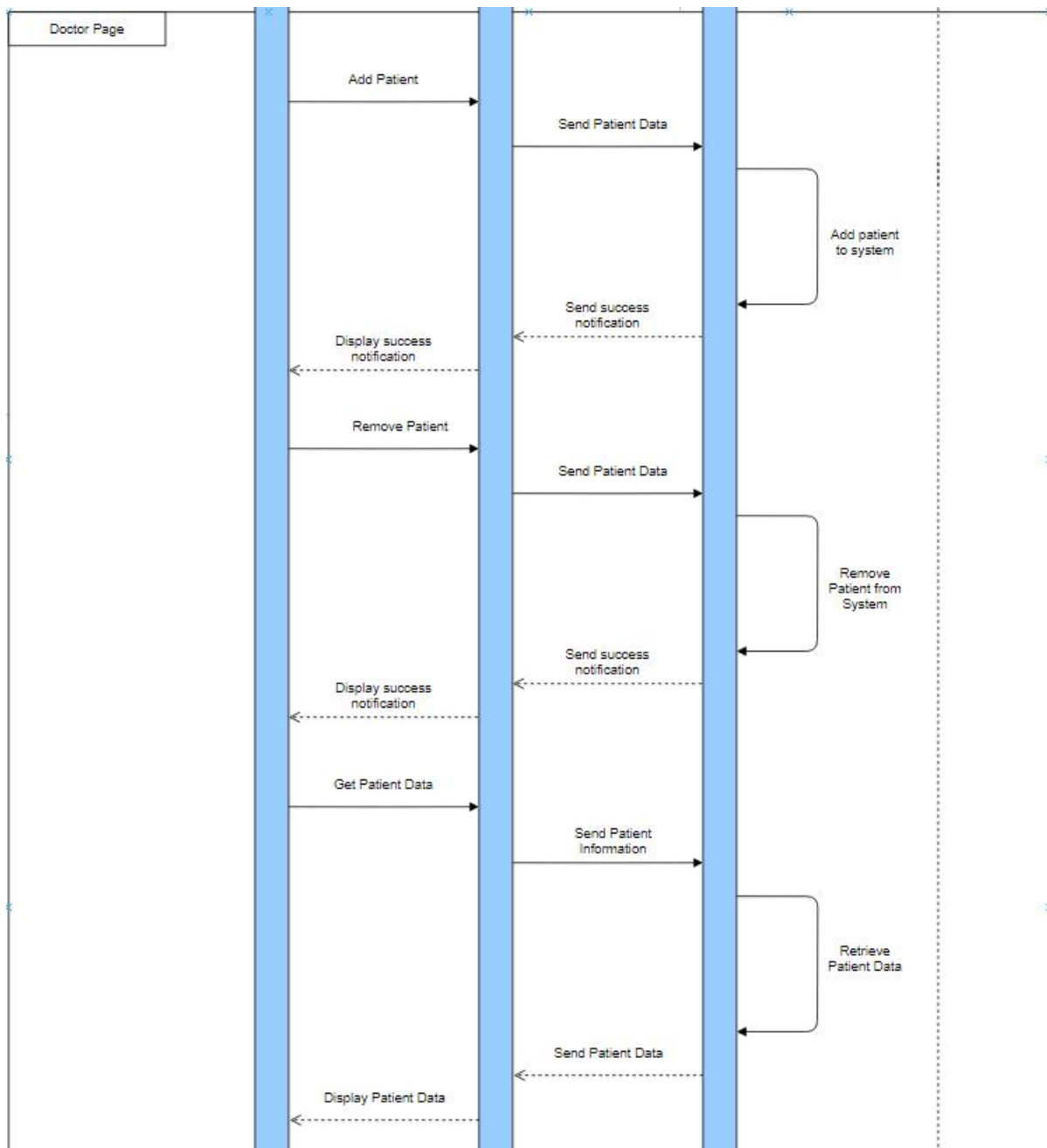


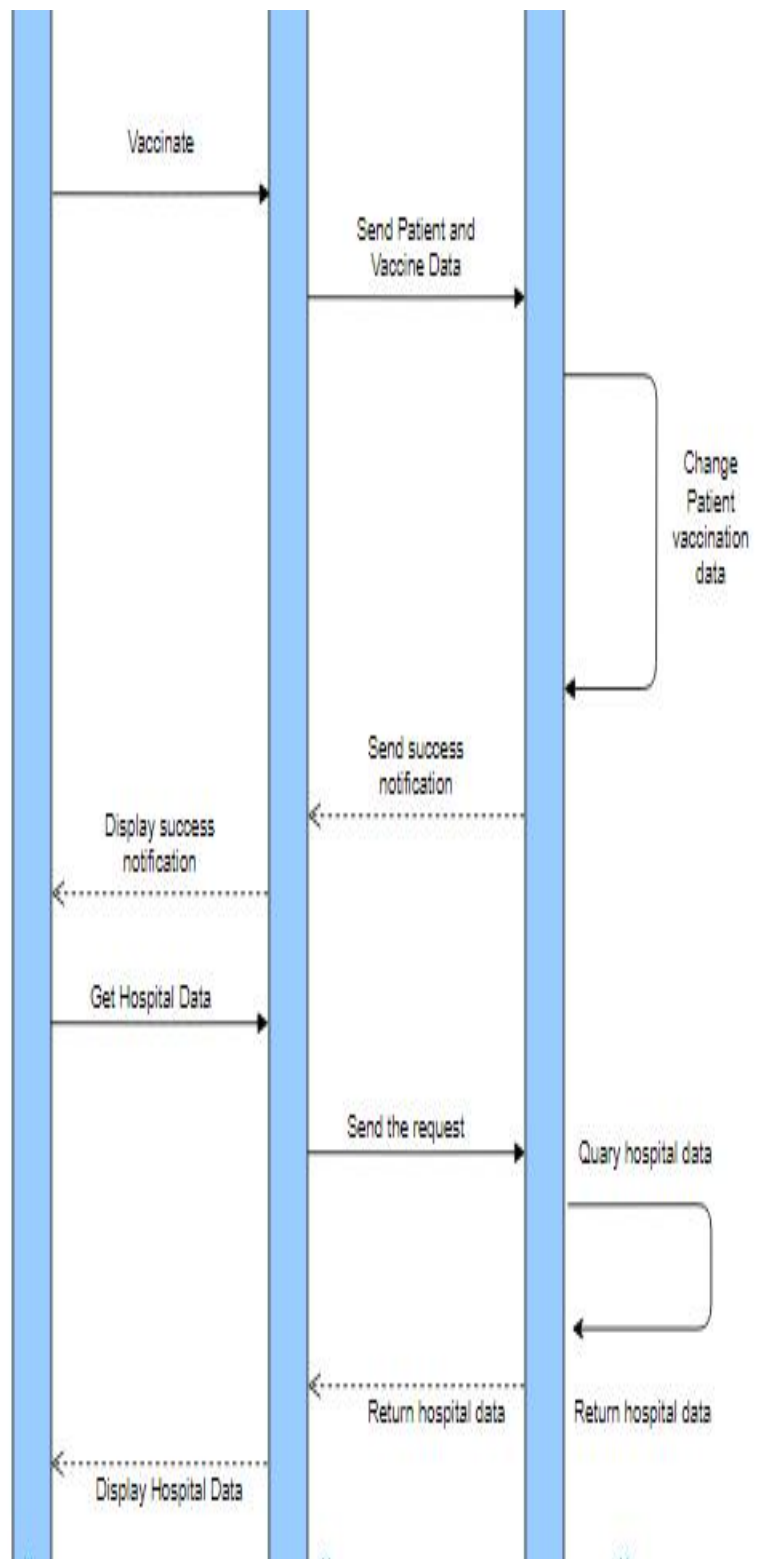


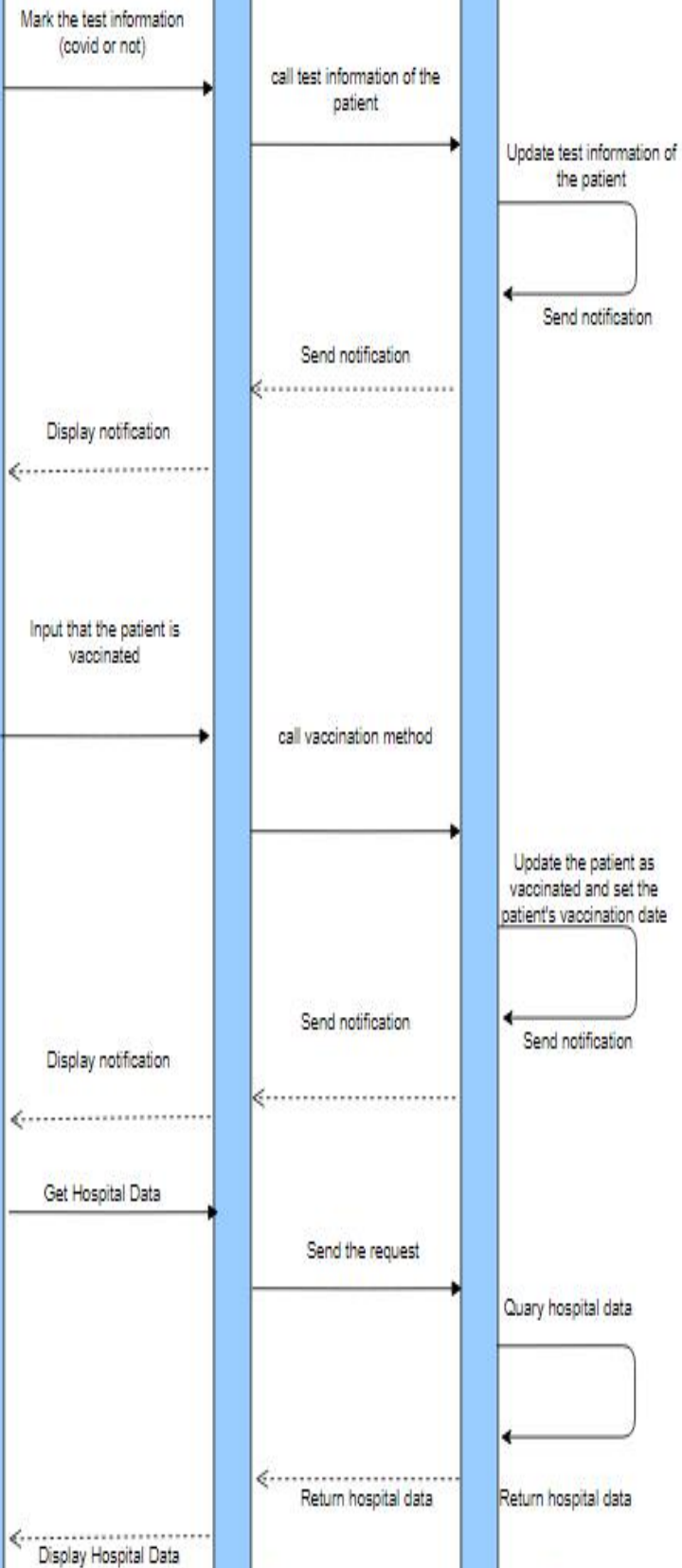


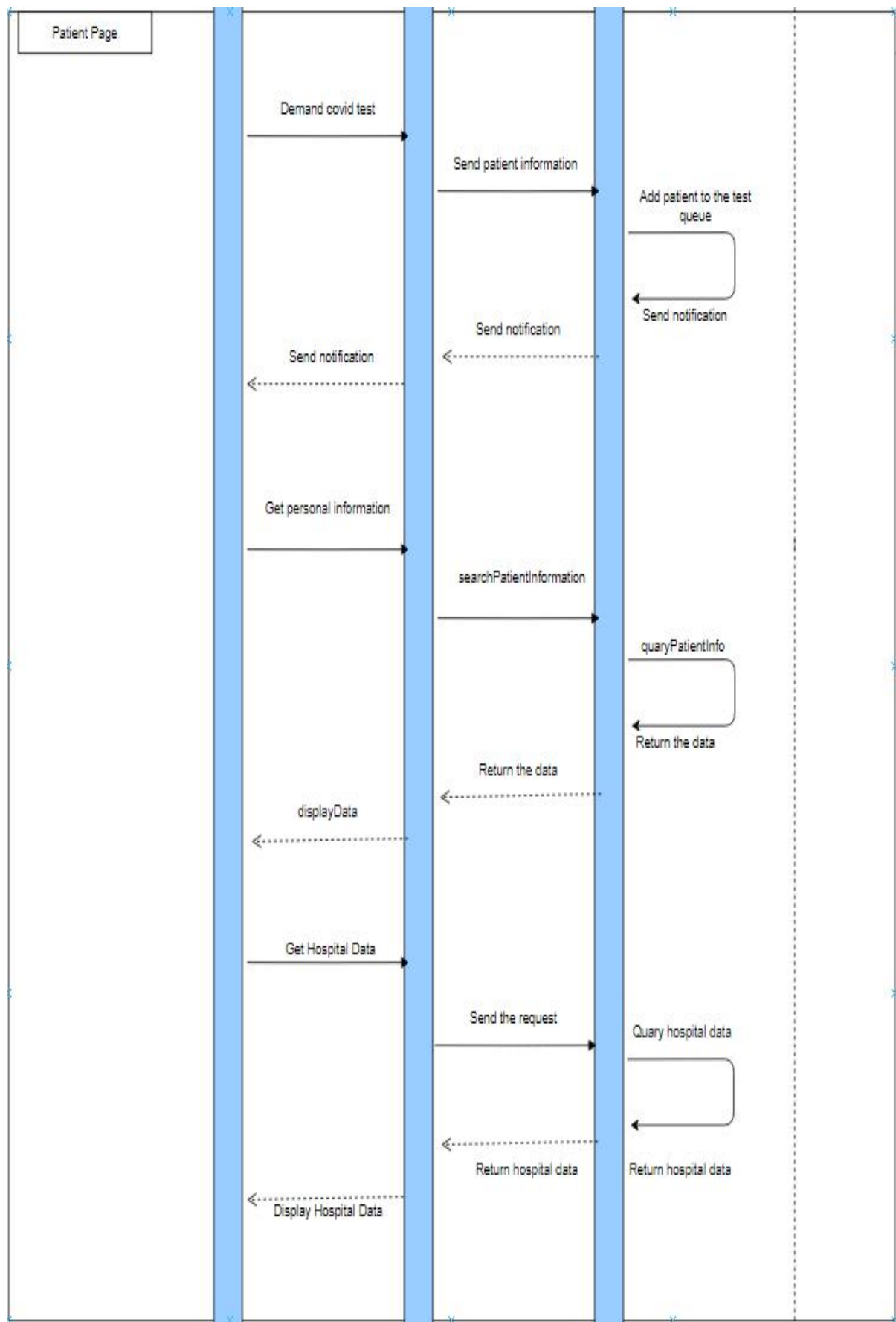












5. NON-TRIVIAL IMPLEMENTATION DETAILS

Class Name	Declaration	Description of Declaration
Hospital	Hospital (HeadPhysician headPhysician, Ministry ministry)	Initializes data fields (Hospital id, number of beds, number of tests, ministry, and headPhysician).
	int numOfBeds ()	It returns number of beds.
	int numOfTests ()	It returns number of tests.
	ArrayList<Hospital> hospitals	Hospital objects are stored.
	ArrayList<HealthEmployee> healthEmployees	Health Employees objects are stored.
Ministry	ArrayList<Vaccine> vaccines	Vaccine objects are stored.
	PriorityQueue<Integer> vaccinationOrder	People to be vaccinated are stored.
	TreeSet<Patient> patients	Patients are stored.
	Ministry (Minister minister)	<ul style="list-style-type: none"> - The constructor initializes all of data fields by creating all of them. - The Ministry constructor reads patient datas to TreeSet<Patient> patients data structure. - The constructor reads healthEmployee datas to ArrayList<HealthEmployee> healthEmployees data structure.
	static void getData (int hospitalId)	It prints number of beds, tests, patients in given hospital according to hospitalId.
	static Patient register ()	Register method registers new patient to system according to parameters and returns it.

Vaccine	Setter,getter	Vaccine class is the root of all information for vaccine.
VaccineType (enum)	is the class of vaccine types	
HealthEmployee (Interface)	boolean vaccinate (String tkno)	Vaccination method
	boolean vaccinate (String tkno)	The next patient is vaccinated according to the patient vaccination order kept in the PriorityQueue data structure .
Doctor	void addPatient (Patient patientObj)	patientObj is added to TreeSet data structure in Ministry class .
	Patient removePatient (Patient patientObj)	patientObj is removed from TreeSet data structure . If there is no such patient then throws exception.
Doctor	String getPatientData (String tkno)	It returns as string patient information according to tkno.
	void demandVaccine ()	Vaccine is demanded from minister class.
	void sendNotification ()	
	String getHospitalData ()	It returns as string the data of the hospital the head physician is in.
HeadPhysician	void sendNotification (String str)	
	boolean vaccinate (String tkno)	-The vaccinate method is overridden. -The next patient is vaccinated according to the patient vaccination order kept in the PriorityQueue data structure .
	Stack<String> notifications	It is the data structure where incoming notifications are stored.
	void addHospitals ()	The given hospital object is added to the ArrayList <Hospital> data structure
	void removeHospital (int hospitalId)	With the hospital id entered, the hospital is deleted from the ArrayList.
	void supplyVaccine (VaccineType type, int num)	With the entered values, the amount of the matching vaccine type in the ArrayList data structure is increased.
	void supplyTest ()	The amount of test kit is increased.
Minister	void getDailyStatistics ()	Daily data realized in the hospital will be written to the data structure.

	boolean addDoctor (String,String,String,String,int)	Doctor object is added to ArrayList<HealthEmployee> data structure.
	boolean removeDoctor (String)	The doctor matching the ID number is removed from the ArrayList .
	boolean addNurse (String,String,String,String,int)	Nurse object is added to ArrayList<HealthEmployee> data structure.
	boolean removeNurse (String)	The nurse matching the ID number is removed from the ArrayList .
	void test ()	Test the person who needs to be tested.
Nurse	boolean vaccinate (String tkno)	The next patient is vaccinated according to the patient vaccination order kept in the PriorityQueue data structure.
	void setCovidInfo (String tkno, boolean isCovid)	The patient's test result is saved to the system with the identification number. If the isCovid parameter is true, the patient is added to the TreeSet<Patient> .
	void getInQueue ()	Returns the next patient in the PriorityQueue data structure.
Patient	void demandCovidTest ()	The patient gets tested and the test result returns
	void setCovidInfo (boolean isCovid)	The patient's test result is saved.
User	User is the root of the every role for a human.	

6. TEST CASES

Test ID	Test Scenario	Test Steps	Test Data	Expected Results	Pass /Fail
T1	Check Minister Login with valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as Health Employee	Tckn = 88888888 Password= admin	User should login into application	Pass
T2	Check Minister Login with not valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as Health Employee	Tckn = 321 Password = wqeqw	User not valid and again login	Pass
T3	Check Patient Login with valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as Patient	Tckn=21059983784 Password= XdGzKS	User should login into application	Pass
T4	Check Patient Login with not valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as Patient	Tckn = 321 Password = wqeqw	User not valid and again login	Pass
T5	Check Head Physician Login with valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4. Choose Login as Head Physician	Tckn = 10876976400 Password= dW05snYrd	User should login into application	Pass
T6	Check Head Physician Login with not valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4. Choose Login as Head Physician	Tckn = 321 Password = wqeqw	User not valid and again login	Pass
T7	Check Doctor Login with valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as Doctor	Tckn = 16480539567 Password= Q7jbPGZhrJa	User should login into application	Pass
T8	Check Doctor Login with not valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as Doctor	Tckn = 321 Password = wqeqw	User not valid and again login	Pass
T9	Check Nurse Login with valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as Nurse	Tckn = 40335362003 Password= k0ix5lG2	User should login into application	Pass
T10	Check Nurse Login with not valid data.	1.Go to app. 2.Enter Tckn. 3.Enter password. 4.Choose Login as	Tckn = 321 Password = wqeqw	User not valid and again login	Pass

		Nurse			
T11	Getting hospital information	1.Go to app. 2.Login Minister. 3.Hospital info. 4.Select Get Hospital Information.	Tckn = 88888888 Password=admin Select Hospital = smywmdmn	Show hospital information.	Pass
T12	Minister displays the daily statistics	1. Launch the app 2. Enter tckno 3. Enter password 4. Minister Page opens up 5. Choose Display Daily Statistics option	Tckn=88888888 Password: admin Choose Display Daily Statistics	The daily statistics of the pandemic shows up	Pass
T13	Add hospital	1.Go to app. 2.Login Minister. 3.Choose Add hospital	Tckn = 88888888 Password= admin City name= SAMSUN	Add hospital.	Pass
T14	Remove hospital	1.Go to app. 2.Login Minister. 3. Choose Remove hospital	Tckn = 88888888 Password= admin Hospital ID: adkotfue	Remove hospital	Pass
T15	Add Doctor	1.Go to app. 2.Login Minister. 3.Choose Add Doctor	Tckn = 88888888 Password= admin Firstname:Test LastName:Test Tckn =55555555 Password=test Age: 24 Hospital ID: 550131557	Add Doctor	Pass
T15	Add Nurse	1.Go to app. 2.Login Minister. 3.Choose Add Nurse	Tckn = 88888888 Password= admin Firstname: testNurse LastName: testNurse Tckn =123456789 Password= testNurse Age: 25 Hospital ID: uifstqwqy	Add Nurse	Pass
T16	Remove Doctor	1 .Go to app. 2.Login as Minister. 3.Choose Remove Doctor.	Tckn = 88888888 Password= admin Doctor Tckn = 55555555	Remove Doctor	Pass
T16	Remove Nurse	1 .Go to app. 2.Login as Minister. 3.Choose Remove Nurse.	Tckn = 88888888 Password= admin Tckn = 61351537164	Remove Nurse	Pass
T19	Remove Patient	1.Go to app. 2.Login Doctor.	Tckn = 37947858673	Remove Patient	Pass

		3. Choose Remove Patient	Password= g0uWic Patient Tckn= 12312312312		
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T20	Get patient data	1.Go to app. 2.Login Doctor. 3.Choose Get Patient Data.	Tckn = 37947858673 Password= g0uWic Patient Tckn= 62304957060	Show patient information	Pass
T21	Vaccinate	1.Go to app. 2.Login Doctor/ Nurse. 3.Choose Vaccinate a Patient	Doctor Tckn=55468138407 Password= 12OCqu / Nurse Tckn=42991812846 Password= PkcuvWU	Patient is vaccinated.	Pass
T22	Patient registers to the app	1. Launch app 2. Choose the register option 3. Enter tckno 4. Enter firstname 5. Enter lastname 6. Enter password 7. Enter age 8. Choose smoking or not 9. Choose vaccinated or not 10. Choose covid or not 11. Choose has a different sickness or not 12. Write the city	Firstname: test Lastname: test Tckn: 12312312 Password: test Age: 22 Select smoking Select vaccinated Select covid Select sickness Select city	Patient successfully registers to the system	Pass
T23	Patient demands covid test	1. Launch the app 2. Choose Login as Patient 3. Enter tckno 4. Enter password 5. Patient Page opens up 6. Choose Demand Covid Test option	Tckn = 12312312 Password = test	Patient is put in to be tested	Pass

T24	Patient displays personal information	1. Launch the app 2. Choose Login as Patient 3. Enter tckno 4. Enter password 5. Patient Page opens up 6. Choose Get	Tckn = 12312312 Password = test Select Personal Information	Personal information of the patient shows up	Pass
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		Personel Information option			
T25	Nurse enters test result of the patient	1. Launch the app 2. Select 1.Login HealthEmployee 3.Enter Tckno 4.Enter password 5.Select 1. Mark the test information	Tckno = 83343861575 Password: cXeB0qhHOlo Select 1.	Test result information is added to the patient's personal information	Pass
T26	Head Physician Hospital Information	1.Launch the app 2.Select 1.Login 3.Enter tckno 4.Enter password 5.Select 2.	Tckno = 94454856493 Password= ZfGB1MNu30 Select get hospital data information 2.	Show hospital information	Pass
T27	Head Physician demands vaccines from the minister	1.Launch the app 2.Select 1.Login HealthEmployee 3.Enter tckno 4.Enter password 5.Select 4 6.Select Vaccine Type 7.Vaccines number	Tckno = 94454856493 Password: ZfGB1MNu30 Select Demand Vaccines 4 Vaccines Type : KAYSERI Vacciness number: 99999	A notification is sent to the minister	Pass

Test ID	Test Scenario	Test Steps	Test Data	Expected Results	Pass/Fail
T28	Head Physician enters the information that the patient	1.Launch the app 2.Select 1.Login HealthEmployee 3.Enter tckno 4.Enter password 5.Select 1 6.Patient tckno	Tckno = 94454856493 Password: ZfGB1MNu30 Select Patient 1 Patient tckno: 53769809260	Return patient information	Pass
T29	Minister supplies test to a hospital	1.Launch the app 2.Select 1.Login HealthEmployee 3.Enter tckno 4.Enter password 5.Select 10 6.Choose Hospital 7.Number of test	Tckno = 8888888 Password = admin Choose hospital = uifstwqy Number of test = 850	Adding test to Hospital	Pass
T30	Minister supplies vaccines to a hospital	1.Launch the app 2.Select 1.Login HealthEmployee 3.Enter tckno 4.Enter password 5.Select 4.	Tckno = 88888888 Password: admin Select Supply Vaccine type: Hospital ID: 550131557 Select vaccine type: BIONTECH Quantity: 100	The vaccines are supplied to the chosen hospital	Pass
T31	Patient can add himself/herself to the vaccination queue	1.Launch the app 2.Select 2.Login patient 3.Enter Tckno 4.Enter Password 5.Selet 3	Tckno=21059983784 Password = xdGzKS	Patient adding to queue	Pass

7.RUNNING RESULT

Test Case Id	Test Result
T1	<pre>Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 88888888 Password : admin Welcome to Minister Page 1 - Get hospital information 2 - Update announce daily statistics 3 - Add hospital 4 - Supply vaccines hospital 5 - Add doctor 6 - Remove doctor 7 - Remove hospital 8 - Add nurse 9 - Remove nurse 10 - Supply test to hospital 11 - Show last notification 0 - Exit █</pre>
T2	<pre>Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 321 Password : wqeqw user not found... Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit █</pre>

T3	<pre>Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 2 TCKNO : 21059983784 Password : XdGzKS You are a patient Welcome to Patient Page 1 - Demand covid test 2 - Get personal information 3 - Get in vaccination queue 0 - EXIT █</pre>	
T4	<pre>Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 2 TCKNO : 321 Password : wqeqw Patient not found Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit</pre>	

T5	<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 10876976400 Password : dW05snYrd Welcome to HeadPhysican Page 1 - Get patient information 2 - Get hospital data 3 - Vaccinate a patinet 4 - Demand vaccines form Minister 0 - Exit </pre>	
T6	<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 321 Password : wqeqw user not found... Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit </pre>	

T7	<pre>Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 16480539567 Password : Q7jbPGZhrJa Welcome to Doctor Page 1 - Add patient 2 - Remove patient 3 - Get patient Data 4 - Vaccinate a patinet 0 - Exit █</pre>
T8	<pre>Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 321 Password : wqeqw user not found... Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit █</pre>

T9	<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 40335362003 Password : k0iX5LG2 Welcome to Nurse Page 1 - Mark the test information 2 - Vaccinate a patinet 0 - Exit </pre>	
T10	<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 321 Password : wqeqw user not found... Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit █ </pre>	

T11

```
Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : 88888888
Password : admin
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
```

```
Hospital ID : smywmdmn
Head Physician : Claiborne Kirtley
Number of beds : 100
Number of tests : 1000
City : ZONGULDAK
Vaccine info :
ASTRAZENECA-> 100
BIOENTECH-> 100
KAYSERI-> 100
SINOVAC-> 100
SPUTNIK-> 100

Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
```

T12

```
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
2
Covid Patients:      33
Vaccinated Patients: 33
```

T13

cse312@ubuntu: ~/Desktop/CSE-222-Term-Project-6

Hospital ID : 431745153

```
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
3
Enter City Name :
SAMSUN
```

```
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
```

Term-Project-6 - Visual Studio Code

Ministry.java

Main.java

database > hospitals.txt

```
1 id,city
2 adkotfue,ADANA
3 zlrinuno,ARTVIN
4 sfpxthgm,KAHRAMANMARAŞ
5 uvlrjwbr,ELAZIĞ
6 kwrimeui,KONYA
7 sucbatkb,KAYSERİ
8 pwbbybhf,DÜZCE
9 wiaxypl,AVDIN
10 qxofnors,KIRŞEHİR
11 bwukgfav,TRABZON
12 eImupfyd,GÜMÜŞHANE
13 ltfaxfdr,MALATYA
14 rakvhqlb,ANTALYA
15 dwhngxpf,KIRIKKALE
16 gmwctepu,BİNGÖL
17 cnyqrxla,KASTAMONU
18 retrtknd,ORDU
19 smyvmdmn,ZONGULDAK
20 wxwcyvjn,BİTLİS
21 uifstwqy,KARS
22 550131557,SAMSUN
```


T14

cse312@ubuntu: ~/Desktop/CSE-222-Term-Project-6

Term-Project-6 - Visual Studio Code

```

Vaccine info :
ASTRAZENECA-> 100
BIOENTECH-> 100
KAYSERI-> 100
SINOVAC-> 100
SPUTNIK-> 100
, uifstwgq=Head Physician : 74493917099,Piper,Isakovic,mpyfpPpR9b,80,0,uifstwgq
Number of beds : 100
Number of tests : 1000
City : KARS
Vaccine info :
ASTRAZENECA-> 100
BIOENTECH-> 100
KAYSERI-> 100
SINOVAC-> 100
SPUTNIK-> 100
}
Hospital ID : adkotfue

```

```

Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit

```

```

Ministry.java  Main.java  healthem
database > hospitals.txt
1 id,city
2 zlrinuno,ARTVIN
3 sfpwthgm,KAHRAMANMARAS
4 uvlrjwbr,ELAZIG
5 kwrimeui,KONYA
6 sucbatkb,KAYSERI
7 pvwbybhf,DUZCE
8 wiaxypl,AYDIN
9 qxofnors,KIRSEHIR
10 bwukgfav,TRABZON
11 elmupfyd,GUMUSHANE
12 550131557,SAMSUN
13 ltfaxfdr,MALATYA
14 rakvhq1b,ANTALYA
15 dwhngxpf,KIRIKKALE
16 gmmctepu,BINGOL
17 cnyqrxla,KASTAMONU
18 retrtknd,ORDU
19 smywmdmn,ZONGULDAK
20 wxwcyvjn,BITLIS
21 uifstwgq,KARS

```

T15

cse312@ubuntu: ~/Desktop/CSE-222-Term-Project-6

healthemployees.txt - CSE-222-Term-Project-6 - Visual Studio Code

```

2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
8
FirstName : testNurse
LastName : testNurse
TCKNO : 123456789
Password : testNurse
Age : 25
Hospital ID : uifstwgq

```

```

Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit

```

EXPLORER

OPEN EDITORS

- CSE-222-TERM-PROJECT-6
 - Minister.java
 - Nurse.class
 - Nurse.java
 - Patient.class
 - Patient.java
 - user_type.class
 - user_type.java
 - User.class
 - User.java
 - cityid.class
 - cityid.java
 - database
 - distances.txt
 - healthemployees.txt
 - hospitals.txt
 - patients.txt
 - .gitignore
 - CSE-222-Term-Project-6.iml
 - Main.class
 - Main.java
 - Makefile
 - README.md
- OUTLINE

The active editor cannot provide outline information.

```

Ministry.java  Main.java  healthemployees.txt  patients.txt
database > healthemployees.txt
59 83343861575,Fanchette,Yeowell,cXeB0qhH0I0,33,2,retrtknd
60 88765211732,Cal,Windrus,enezq52gwa,33,1,retrtknd
61 94860008661,Shirleen,Iichenko,1EV8C27,31,1,sucbatkb
62 67724779722,Leopold,Busswell,nGc2FAdQwkt,31,1,adkotfue
63 59685139052,Bobby,Thibodeaux,gSUYSpGvXqfr,31,1,adkotfue
64 64298380671,Reeba,Mallett,PtgyoDc,30,2,sucbatkb
65 42922345456,Brice,Duell,UnZrkzovXvd,30,2,wiaxypl
66 99216859707,Lissa,Sallows,7uREVLAvl,30,2,wiaxypl
67 31126593986,Emelen,Romayn,oyjBn4dVnqn,28,2,ltfaxfdr
68 90109206513,Klarika,Roderighi,QQXV68,28,1,pwbybhf
69 65911585376,Cosimo,Parks,DpPM1j2d,26,2,wiaxypl
70 98166834241,Melory,Goslin,tjPvZuEWj,25,1,adkotfue
71 81270754907,Alejandrina,Vannuchi,s0IqWwTC,24,1,qxofnors
72 34892133965,Barb,Hugenin,62b1b6vB,24,2,wiaxypl
73 51177625527,John,McQuillen,dnhfKAZHngw,23,2,elmupfyd
74 73432038371,Brynn,Frankcomb,L8B1KEELG,21,0,wiaxypl
75 42608650782,Debby,Kylliford,cpcIsP3,21,0,wxwcyvjn
76 93514333131,Lezlie,Coxen,crEJODE,21,1,elmupfyd
77 108976976406,Claiborne,Kirley,dhOSnfrd,20,0,smywmdmn
78 72496130249,Fletch,Micallief,ChaVkbqf,20,1,retrtknd
79 18265407284,Dasha,Cropper,iAk1C73,19,1,qxofnors
80 93112059712,Emmaline,Clappison,gJel17NFNqi,19,1,pwbybhf
81 30637497009,Nathalia,Fowlie,8rqyQXm6TM,19,2,uvlrjwbr
82 38641113706,Amii,Ferreli,pLTDJn,17,1,pwbybhf
83 42030858111,Humphrey,Juden,WBT7PO,14,2,bwukgfav
84 11660119660,Dev,Loxton,B5dWpdl,13,2,retrtknd
85 89305826347,Darb,Bill,ITGCYOCRIk,12,2,qxofnors
86 40335362003,Flora,Duffell,k0iX5lG2,12,2,ltfaxfdr
87 88073769473,Teodor,Barus,tNfjNX,12,0,bwukgfav
88 61464552461,Amie,Orth,eSsAC0ZauV0,10,1,zlrinuno
89 51705347344,Daphne,Thumim,fbe7COy7GC,10,1,uvlrjwbr
90 78259914756,Harli,ComeLini,vZgcPL,10,1,gmmctepu
91 72641858099,Myrlam,Shermore,HJlMamToz,9,1,sucbatkb
92 16014414827,Kala,Enderby,UMgvoD,9,2,bwukgfav
93 21777649019,Earl,Marriner,HJ822wTKG3,6,2,kwrimeui
94 76654704349,Sianna,Bartot,WaVm2wOV,6,2,bwukgfav
95 64636144084,Eugene,Cantua,thUC5dl,5,1,ltfaxfdr
96 61351537164,Adrienne,Ivashin,mcJbWRH,5,2,elmupfyd
97 92110650054,Trista,Simmons,sBWXP,4,0,retrtknd
98 20972066130,Corrie,Love,Ig6aJl,3,1,zlrinuno
99 42991812846,Dayna,Banham,PkCuvWJ,3,2,bwukgfav
100 123456789,testNurse,testNurse,testNurse,25,0,uifstwgq

```

T15

```
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
5
FirstName : Test
LastName : Test
TKNO : 5555555
Password : test
Age : 24
Hospital ID : 550131557
```

```
Welcome to Minister Page
1 - Get hospital information
```

```
user_type.class
user_type.java
User.class
User.java
cityid.class
cityid.java
database
distances.txt
healthemployees.txt
hospitals.txt
patients.txt
.gitignore
CSE-222-Term-Project-6.iml
Main.class
Main.java
Makefile
README.md
OUTLINE
The active editor cannot provide
outline information.
```

```
13609513490, Jephthah, nugier0, eougl1, 62, 1, zlrinuno
34607362324, Theresa, Vankov, FftXB6H1, 94, 1, zlrinuno
31857688270, Arlette, Snewings, dxPC70FbErRt, 40, 1, zlrinuno
79891669876, Thekla, Setch, VhMJfK0m, 95, 1, zlrinuno
20972066130, Corrie, Love, lg6aj1, 3, 1, zlrinuno
61464552461, Amie, Orth, eSsAC0ZauV0, 10, 1, zlrinuno
71363498547, Luch0, Vobes, tBgxTYbM7, 58, 1, uvlrjwbr
14286867359, Berty, Schukert, 7hxLzHEJbgzf, 63, 1, uvlrjwbr
86856252606, Libbie, Adamczyk, Da5XkMxxnG, 42, 1, uvlrjwbr
30637497009, Nathalia, Fowlie, 8rggyQxm6TW, 19, 2, uvlrjwbr
51705347344, Daphne, Thumim, fbe7COMy7GC, 10, 1, uvlrjwbr
80967625509, Pierre, Valentin, txD5Q9BwYTV, 67, 1, elmupfyd
51177625527, John, McQuillen, dnhfkAZHngW, 23, 2, elmupfyd
46124287329, Glory, Buttner, qQZwX6n5e0pe, 70, 1, elmupfyd
93514333131, Lezlie, Coxen, crEJODe, 21, 1, elmupfyd
76652322797, Emmy, Camell1, tQoZM3vrQV, 69, 1, elmupfyd
61351537164, Adrienne, Ivashin, mcJbWRH, 5, 2, elmupfyd
65911585376, Cosimo, Parks, DpFM1l2d, 26, 2, wiaxypsl
34892133965, Barb, Hugenin, 62bIb6oVb, 24, 2, wiaxypsl
58559247592, Berty, Stenton, BmwJaxQzFic, 53, 1, wiaxypsl
4292345456, Brice, Duell1, UhZrkzOvXoV, 30, 2, wiaxypsl
99216859707, Lissa, Sallows, 7uREVLAAv1, 30, 2, wiaxypsl
65683938037, Remy, Fidge, FYgKWl8TEig, 97, 1, wiaxypsl
42991812846, Dayna, Banham, PKcuvWU, 3, 2, bwukgfav
16014414827, Kala, Enderby, UMGvoD, 9, 2, bwukgfav
42030858111, Humphrey, Juden, WBT7P0, 14, 2, bwukgfav
76654704349, Sianna, Bartot, WaVm2w0V, 6, 2, bwukgfav
27496130249, Fletcher, Micallef, CbaVkbKqf, 20, 1, retrtknd
83343861575, Fanchette, Yeowell, cXeB0qhHOio, 33, 2, retrtknd
11660119660, Dev, Loxton, B5dWpd14, 13, 2, retrtknd
88765211732, Cal, Windrus, enezq52q6wa, 33, 1, retrtknd
78259914756, Harli, Comelini, vZgcPL, 10, 1, gmwctepu
69623712122, Kariotta, Surtees, plK8K5TLdNXI, 49, 2, gmwctepu
91373731321, Peterus, Dahl, WoaCT4GNW, 52, 2, gmwctepu
84286823953, Tine, Minucci, ZoZlLowz, 77, 2, gmwctepu
55555555, Test, Test, test, 24, 1, 550131557
```

T16

cse312@ubuntu: ~/Desktop/CSE-222-Term-Project-6

```
Age : 24
Hospital ID : 550131557

Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
6
TKNO : 55555555
```

```
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
```

CSE-222-Term-Project-6 - Visual Studio Code

```
Ministry.java Main.java healthemployees.txt patients.txt
database
healthemployees.txt
59 83343861575, Fanchette, Yeowell, cXeB0qhHOio, 33, 2, retrtknd
60 88765211732, Cal, Windrus, enezq52q6wa, 33, 1, retrtknd
61 94860008661, Shirleen, Ilchenko, 1Ev8C27, 31, 1, sucbatkb
62 67724779722, Leopold, Busswell, nGc2FAdQwkt, 31, 1, adkotfue
63 59685139052, Bobby, Thibodeaux, g5UySpKvXqf, 31, 1, adkotfue
64 64298380671, Reebea, Mallett, PTgynOCC, 30, 2, sucbatkb
65 42922345456, Brice, Duell1, UhZrkzOvXoV, 30, 2, wiaxypsl
66 99216859707, Lissa, Sallows, 7uREVLAAv1, 30, 2, wiaxypsl
67 31126593986, Emelen, Romayn, oYjBn4dVnqn, 28, 2, ltfaxfdr
68 90109206513, Klarika, Roderighi, QOXVye8, 28, 1, pvwybybhf
69 65911585376, Cosimo, Parks, DpFM1l2d, 26, 2, wiaxypsl
70 98166534241, Malory, Goslin, tJPv2kuEXWj, 25, 1, adkotfue
71 81270754907, Alejandrina, Vannuchi, sOiqMwtC, 24, 1, qxfnors
72 34892133965, Barb, Hugenin, 62bIb6oVb, 24, 2, wiaxypsl
73 51177625527, John, McQuillen, dnhfkAZHngW, 23, 2, elmupfyd
74 73432038371, Brynna, Frankcomb, L8BIKEELG, 21, 0, wiaxypsl
75 42608650782, Debby, Kyllford, cpcIcP3, 21, 0, wxcycvjin
76 93514333131, Lezlie, Coxen, crEJODe, 21, 1, elmupfyd
77 10876976400, Claiborne, Kirtley, dW05snVrd, 20, 0, smymmdn
78 27496130249, Fletcher, Micallef, CbaVkbKqf, 20, 1, retrtknd
79 18265407284, Dasha, Cropper, iAkIC73, 19, 1, qxfnors
80 93112059712, Emmaline, Clappison, gJel17NFNqi, 19, 1, pvwybybhf
81 30637497009, Nathalia, Fowlie, 8rggyQxm6TW, 19, 2, uvlrjwbr
82 3864113706, Amii, Ferrelli, pLTDJn, 17, 1, pvwybybhf
83 42030858111, Humphrey, Juden, WBT7P0, 14, 2, bwukgfav
84 11660119660, Dev, Loxton, B5dWpd14, 13, 2, retrtknd
85 89305826347, Darb, Bill1, jTGVCORik, 12, 2, qxfnors
86 40335362003, Flora, Duffell, kdIXS1G2, 12, 2, ltfaxfdr
87 88073769473, Teodor, Barus, tNfjNx, 12, 0, bwukgfav
88 61464552461, Amie, Orth, eSsAC0ZauV0, 10, 1, zlrinuno
89 51705347344, Daphne, Thumim, fbe7COMy7GC, 10, 1, uvlrjwbr
90 78259914756, Harli, Comelini, vZgcPL, 10, 1, gmwctepu
91 72641858099, Myriam, Shermore, HLjMsmnToz, 9, 1, sucbatkb
92 16014414827, Kala, Enderby, UMGvoD, 9, 2, bwukgfav
93 21777649019, Earl, Marriner, HJ8ZM1TKG3, 6, 2, kwimeui
94 76654704349, Sianna, Bartot, WaVm2w0V, 6, 2, bwukgfav
95 64636144084, Eugene, Cantua, thUC5d1, 5, 1, ltfaxfdr
96 61351537164, Adrienne, Ivashin, mcJbWRH, 5, 2, elmupfyd
97 92110650054, Trista, Simmons, sBa0XP, 4, 0, retrtknd
98 20972066130, Corrie, Love, lg6aj1, 3, 1, zlrinuno
99 42991812846, Dayna, Banham, PKcuvWU, 3, 2, bwukgfav
```


T16

```

cse312@ubuntu: ~/Desktop/CSE-222-Term-Project-6
Age : 25
Hospital ID : uifstwgq

Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
9
TCKNO : 61351537164

Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit

```

T17

```

Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
11
0
You have 0 new mail

TCKNO : 88888888
Password : admin
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
11
1
123 of SINOVAC needed

```

T18

```
base > E patients.txt
1 87004335933, Franklin, Riddle, 9jxkvaJgm8Q, 90, false, true, false, false, ZONGULDA
2 14901555885, Georgeanna, Prinne, 1vG516s6dX0, 5, false, false, true, false, VAN
3 12150684507, Nathalia, Dmitrovic, 4kHRVnQ, 54, false, false, false, true, GAZIANTEP
4 77564733654, Kallie, Dubique, wmuEOcHud, 57, false, true, true, true, TEKIRDAĞ
5 46599808212, Ulrick, Seyfart, 9weTqFvfk, 14, true, true, true, true, BILECIK
6 31588116349, Vallie, Instock, tsJrx2WJ, 17, false, false, true, false, BATMAN
7 43905539823, Abby, Cash, 1zvlyM1, 38, false, false, true, true, MALATYA
8 51183627180, Tulley, Maleby, nMQ39Cdpder, 35, false, true, false, true, HATAY
9 64561841213, Kathi, MacMoyer, yxAcvEwoV, 74, false, true, true, false, ESKIŞEHİR
10 51630618819, El, Beedham, MfJYmKy, 9, true, true, false, true, TOKAT
11 18603595818, Chaim, Winsler, eIzNLGa, 41, false, false, true, false, VAN
12 63356941787, Sile, Golding, NXuJ7ILx, 61, true, true, false, true, DIYARBAKIR
13 71243678326, Eula, Whithnell, Th3jVaOYU, 61, false, false, true, true, NEVŞEHİR
14 75323817335, Jocelyne, Evangelinos, tqQBKdMu965z, 49, false, true, true, true, BATMAN
15 57197215182, Catharina, Macak, dR248Dgal, 61, false, true, true, false, ARDAHAN
16 43787520664, Brittaney, Rockhill, HXM2WjJb, 56, true, true, true, true, BATMAN
17 54016412802, Ernesto, Mordaunt, YbnCq4, 47, false, false, false, true, HATAY
18 96974563443, Ferrel, White, q4Cd1QySeG, 21, false, false, false, true, AYDIN
19 25186976835, Wye, Forrestill, JnigR43, 50, true, true, false, false, BATMAN
20 61424325846, Keen, Vasilkov, 9KsdrU, 12, true, false, false, false, ANTALYA
21 49209706499, Andreea, Biesterfeld, n05jUNXVNIuI, 72, true, true, false, true, AKSARAY
22 93322546855, Kev, Auchterlony, vw23aUn, 84, true, true, false, false, BALIKESİR
23 85094251122, Banky, Workham, pgvhjV9CQRQ, 91, false, true, true, true, ÇANKIRI
24 96254074990, Greer, Simmen, XPW9H2, 35, false, true, true, true, TOKAT
25 18173958106, Dale, Lethabridge, Oiu3wNY, 73, false, false, true, true, KARAMAN
26 12987850084, Felipe, Ikringill, jAWOpn, 12, false, false, false, true, KIRKLARELİ
27 48805595764, Dannie, Lamcken, D8k26LZeU29e, 92, false, false, false, false, MARDIN
28 84641930304, Barbra, Barlow, 6ooGwKS, 22, true, false, true, true, BİTLİS
29 51172390792, Cordie, Artharg, QtjfvLci, 73, false, false, false, false, ANKARA
30 63034774055, Wendall, Keddey, Hjrg34jxyGjW, 23, false, true, true, true, ELAZIĞ
31 82560672940, Nina, Artis, nnysm1Clid, 80, true, false, false, false, SAMSUN
32 99261225721, Babbie, Greyes, svx5SkfU, 68, false, true, false, true, TEKİRDAĞ
33 56430318945, Nataniel, Le Surf, DjHCwR, 96, true, true, true, true, KONYA
34 32074865860, Christian, Guerrin, ggZ8ldDZJf, 15, false, true, false, true, BİTLİS
35 92559557918, Frederick, Netting, UtZRpUW, 26, false, false, true, true, KOCAELİ
36 37924182110, Quill, Scroggs, NGNlyOXdk, 1, true, true, false, true, DÜZCE
37 62304957060, Lanie, Coveley, yewQeJ, 65, false, true, false, true, BALIKESİR
38 10362437770, Jenn, Foggio, NTS9K9B2, 14, false, false, true, true, KAYSERİ
39 95453063444, Courtney, Buxton, n0Bi4rQ, 59, false, true, false, true, TUNCELİ
40 26507544357, Percival, Kings, vzsFE93R, 79, true, false, false, true, BATMAN
41 12312312312, test, test, test, 24, false, false, false, false, SAMSUN

TCKNO : ^Cmake: *** [run] Error 130

cse312@ubuntu:~/Desktop/CSE-222-Term-Project-6$ make
javac Main.java
java Main
Welcome to the COVID Management System

Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : 37947858673
Password : g0uWlC
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
1

FirstName : test
LastName : test
TCKNO : 12312312312
Password : test
Age : 24
IsCovid : false
IsSick : false
IsSmoking : false
IsVaccinated : false
City : SAMSUN
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
1

base > E patients.txt
1 87004335933, Franklin, Riddle, 9jxkvaJgm8Q, 90, false, true, false, false, ZONGULDA
2 14901555885, Georgeanna, Prinne, 1vG516s6dX0, 5, false, false, true, false, VAN
3 12150684507, Nathalia, Dmitrovic, 4kHRVnQ, 54, false, false, false, true, GAZIANTEP
4 77564733654, Kallie, Dubique, wmuEOcHud, 57, false, true, true, true, TEKIRDAĞ
5 46599808212, Ulrick, Seyfart, 9weTqFvfk, 14, true, true, true, true, BILECIK
6 31588116349, Vallie, Instock, tsJrx2WJ, 17, false, false, true, false, BATMAN
7 43905539823, Abby, Cash, 1zvlyM1, 38, false, false, true, true, MALATYA
8 51183627180, Tulley, Maleby, nMQ39Cdpder, 35, false, true, false, true, HATAY
9 64561841213, Kathi, MacMoyer, yxAcvEwoV, 74, false, true, true, false, ESKIŞEHİR
10 51630618819, El, Beedham, MfJYmKy, 9, true, true, false, true, TOKAT
11 18603595818, Chaim, Winsler, eIzNLGa, 41, false, false, true, false, VAN
12 63356941787, Sile, Golding, NXuJ7ILx, 61, true, true, false, true, DIYARBAKIR
13 71243678326, Eula, Whithnell, Th3jVaOYU, 61, false, false, true, true, NEVŞEHİR
14 75323817335, Jocelyne, Evangelinos, tqQBKdMu965z, 49, false, true, true, true, BATMAN
15 57197215182, Catharina, Macak, dR248Dgal, 61, false, true, true, false, ARDAHAN
16 43787520664, Brittaney, Rockhill, HXM2WjJb, 56, true, true, true, true, BATMAN
17 54016412802, Ernesto, Mordaunt, YbnCq4, 47, false, false, false, true, HATAY
18 96974563443, Ferrel, White, q4Cd1QySeG, 21, false, false, false, true, AYDIN
19 25186976835, Wye, Forrestill, JnigR43, 50, true, true, false, false, BATMAN
20 61424325846, Keen, Vasilkov, 9KsdrU, 12, true, false, false, false, ANTALYA
21 49209706499, Andreea, Biesterfeld, n05jUNXVNIuI, 72, true, true, false, true, AKSARAY
22 93322546855, Kev, Auchterlony, vw23aUn, 84, true, true, false, false, BALIKESİR
23 85094251122, Banky, Workham, pgvhjV9CQRQ, 91, false, true, true, true, ÇANKIRI
24 96254074990, Greer, Simmen, XPW9H2, 35, false, true, true, true, TOKAT
25 18173958106, Dale, Lethabridge, Oiu3wNY, 73, false, false, true, true, KARAMAN
26 12987850084, Felipe, Ikringill, jAWOpn, 12, false, false, false, true, KIRKLARELİ
27 48805595764, Dannie, Lamcken, D8k26LZeU29e, 92, false, false, false, false, MARDIN
28 84641930304, Barbra, Barlow, 6ooGwKS, 22, true, false, true, true, BİTLİS
29 51172390792, Cordie, Artharg, QtjfvLci, 73, false, false, false, false, ANKARA
30 63034774055, Wendall, Keddey, Hjrg34jxyGjW, 23, false, true, true, true, ELAZIĞ
31 82560672940, Nina, Artis, nnysm1Clid, 80, true, false, false, false, SAMSUN
32 99261225721, Babbie, Greyes, svx5SkfU, 68, false, true, false, true, TEKİRDAĞ
33 56430318945, Nataniel, Le Surf, DjHCwR, 96, true, true, true, true, KONYA
34 32074865860, Christian, Guerrin, ggZ8ldDZJf, 15, false, true, false, true, BİTLİS
35 92559557918, Frederick, Netting, UtZRpUW, 26, false, false, true, true, KOCAELİ
36 37924182110, Quill, Scroggs, NGNlyOXdk, 1, true, true, false, true, DÜZCE
37 62304957060, Lanie, Coveley, yewQeJ, 65, false, true, false, true, BALIKESİR
38 10362437770, Jenn, Foggio, NTS9K9B2, 14, false, false, true, true, KAYSERİ
39 95453063444, Courtney, Buxton, n0Bi4rQ, 59, false, true, false, true, TUNCELİ
40 26507544357, Percival, Kings, vzsFE93R, 79, true, false, false, true, BATMAN

~/COM/00j/ntitstyry.java:330: error: incompatible types: LinkedNode<Patient> cannot
BinaryTree.Node<Patient> node = ((BinaryTree) patients).getNode(
^
1 error
make: *** [run] Error 1
cse312@ubuntu:~/Desktop/CSE-222-Term-Project-6$ make
javac Main.java
java Main
Welcome to the COVID Management System

Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : ^Cmake: *** [run] Error 130

cse312@ubuntu:~/Desktop/CSE-222-Term-Project-6$ make
javac Main.java
java Main
Welcome to the COVID Management System

Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : 37947858673
Password : g0uWlC
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
1
```


T19

```
database → patients.txt
61 87004335933, Francklyn, Rihole, 9jxkvaJgm80, 90, false, true, false, false, ZONGULDAK
62 14901555885, Georgeanna, Prinne, 1vG5165s60xD, 5, false, false, true, false, VAN
63 12150684507, Nathalia, Dmitrovic, 4kHRVNO, 54, false, false, false, true, GAZIANTEP
64 77564733654, Kalie, Dubique, wMUeOcHud, 57, false, true, false, true, TEKİRDAĞ
65 46599808212, Ulrick, Seyfart, 9weTqFvfkC, 14, true, true, true, true, BİLECİK
66 31588116349, Vallie, Instock, tsJrx2WJ, 17, false, false, true, false, BATMAN
67 43905539823, Abby, Cash, IzvlyWl, 38, false, false, true, true, MALATYA
68 51183627180, Tulley, Waleby, nMQ39Cdper, 35, false, true, false, true, HATAY
69 64561841213, Kathi, MacMoyer, yxAcvEwoV, 74, false, true, true, false, ESKİŞEHİR
70 51630618819, El, Beedham, MFJYmKy, 9, true, true, false, true, TOKAT
71 18603595818, Chaim, Winsler, eizNLGa, 41, false, false, true, false, VAN
72 63356941787, Sile, Golding, NXuJ7ILx, 61, true, true, false, true, DİYARBAKIR
73 71243678326, Eula, Whitnell, Th3jVa0YU, 61, false, false, true, true, NEVŞEHİR
74 75323817335, Jocelyne, Evangelinos, tqQBkDmu965z, 49, false, true, true, true, BATMAN
75 57197215182, Catharina, Macak, dR248Dgal, 61, false, true, true, false, ARDAHAN
76 43787520664, Brittaney, Rockhill, HXM2WjJb, 56, true, true, true, true, BATMAN
77 54016412802, Ernesto, Mordaunt, YbnCq4, 47, false, false, false, true, HATAY
78 96974563443, Ferrel, White, q4Cd1QySeG, 21, false, false, false, true, AYDIN
79 25186976835, Wye, Forrestill, JnigR43, 50, true, true, false, false, BATMAN
80 61424325846, Keen, Vasilkov, 9KsdrU, 12, true, false, false, false, ANTALYA
81 49209706499, Anderea, Biesterfeld, n05jUNXVNiU, 72, true, true, false, true, AKSARAY
82 93322546855, Kev, Auchterlony, vw23aUn, 84, true, true, false, false, BALIKESİR
83 85094251122, Banky, Morkham, pgvhjV9CQRQ, 91, false, true, true, true, ÇANKIRI
84 96254074990, Greer, Simmen, XPW9H2, 35, false, true, true, true, TOKAT
85 18173958106, Dale, Lethabridge, 0iu3wNY, 73, false, false, true, true, KARAMAN
86 12987850084, Felipe, Ikringill, jAMOpn, 12, false, false, false, true, KIRKLARELİ
87 48805595764, Donnie, Lamcken, 08k26LZeU29e, 92, false, false, false, false, MARDİN
88 84641930304, Barbra, Barlow, 6ooGwKs, 22, true, false, true, true, BİTLİS
89 51172390792, Cordie, Artharg, QtjfvLci, 73, false, false, false, false, ANKARA
90 63034774055, Wendall, Keddey, Hjrg34jxyGjW, 23, false, true, true, true, ELAZIĞ
91 82560672940, Nina, Artis, nnysm1Clid, 80, true, false, false, false, SAMSUN
92 99261225721, Babbie, Greyes, svx5SkfU, 68, false, true, false, true, TEKİRDAĞ
93 56430318945, Nataniel, Le Surf, DjHCcwR, 96, true, true, true, true, KONYA
94 32074865860, Christian, Guerrin, gqZ8ldDZJf, 15, false, true, false, true, BİTLİS
95 92559557918, Frederick, Netting, UtZRpUW, 26, false, false, true, true, KOCAELİ
96 37924182110, Quill, Scroggs, NGNtyOXdk, 1, true, true, false, true, DÜZCE
97 62304957060, Lanie, Coveley, yewQeJ, 65, false, true, false, true, BALIKESİR
98 10362437770, Jenn, Foggo, NTSc9KB92, 14, false, false, true, true, KAYSERİ
99 95453063444, Courtney, Buxton, noBI4rQ, 59, false, true, false, true, TUNCELİ
100 26507544357, Percival, Kings, vzsFE93R, 79, true, false, false, true, BATMAN
101 12312312312, test, test, test, 24, false, false, false, false, SAMSUN
102

cse312@ubuntu:~/Desktop/CSE-222-Term-Project-6$ make
javac Main.java
java Main
Welcome to the COVID Management System

Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : 37947858673
Password : g0UwIC
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
1
FirstName : test
LastName : test
TCKNO : 12312312312
Password : test
Age : 24
IsCovid : false
IsSick : false
IsSmoking : false
IsVaccinated : false
City : SAMSUN
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
2
Patient TCKNO : 12312312312
```

T20

```
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
3
Patient TCKNO : 62304957060
****PERSONAL INFORMATION****
Name= Lanie
Surname= Coveley
TCKNO= 62304957060
SMOKE= false
VACCINATE= false
SICK= false
COVID= false
```

T21

```
cse312@ubuntu:~/Desktop/CSE-222-Term-Project-6$ make
javac Main.java
java Main
Welcome to the COVID Management System

Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
2

TCKNO : 21059983784
Password : XdGzKS
You are a patient
Welcome to Patient Page
1 - Demand covid test
2 - Get personal information
3 - Get in vaccination queue
0 - EXIT
3
Welcome to Patient Page
1 - Demand covid test
2 - Get personal information
3 - Get in vaccination queue
0 - EXIT
0
EXIT...
Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : 42991812846
Password : PKcuvWU
Welcome to Nurse Page
1 - Mark the test information
2 - Vaccinate a patinet
0 - Exit
2
Patient with the TCKNO : 21059983784 has vaccinated
Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : 55468138407
Password : 120Cqu
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
4
No patient in the vaccination order...
Welcome to Doctor Page
1 - Add patient
2 - Remove patient
3 - Get patient Data
4 - Vaccinate a patinet
0 - Exit
```

T22	<pre> 85094251122,Banky,Morkham,pgvhjV9CQRQ,91,false,true,true,true,ÇANKIRI 96254074990,Greer,Simmen,XPW9H2,35,false,true,true,true,TOKAT 18173958106,Dale,Lethabridge,Oiu3wNY,73,false,false,true,true,KARAMAN 12987850084,Felipe,Ikringill,jAMOpn,12,false,false,false,true,KIRKLARELİ 48805595764,Dannie,Lamcken,D8k26LZeUZ9e,92,false,false,false,false,MARDİN 84641930304,Barbra,Barlow,6ooGWkS,22,true,false,true,true,BİTLİS 51172390792,Cordie,Artharg,QtfvLci,73,false,false,false,false,ANKARA 63034774055,Wendall,Keddey,Hjrg34jxyGjW,23,false,true,true,true,ELAZİĞ 82560672940,Nina,Artis,nnySm1Clid,80,true,false,false,false,SAMSUN 99261225721,Babbie,Greyes,svxS5kfU,68,false,true,false,true,TEKİRDAĞ 56430318945,Nataniel,Le Surf,DjHCcWR,96,true,true,true,true,KONYA 32074865860,Christian,Guerrin,gqZ8ldDZJf,15,false,true,false,true,BİTLİS 92559557918,Frederick,Netting,UtZRpUW,26,false,false,true,true,KOCAELİ 37924182110,Quill,Scroggs,NGN1yOXdk,1,true,true,false,true,DÜZCE 62304957060,Lanie,Coveley,yeWQeJ,65,false,true,false,true,BALIKESİR 10362437770,Jenn,Foggo,NTSc9KB92,14,false,false,true,true,KAYSERİ 95453063444,Courtney,Buxton,noBI4rQ,59,false,true,false,true,TUNCELİ 26507544357,Percival,Kings,vzsFE93R,79,true,false,false,true,BATMAN 12312312,test,test,test,22,true,true,true,true,SİVAS </pre> <pre> 3 - Get patient Data 4 - Vaccinate a patient 0 - Exit 0 EXIT... Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 3 FirstName : test LastName : test TCKNO : 12312312 Password : test Age : 22 IsCovid : true IsSick : false IsSmoking : true IsVaccinated : false City : SİVAS Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit </pre>
T23	<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 2 TCKNO : 12312312 Password : test You are a patient Welcome to Patient Page 1 - Demand covid test 2 - Get personal information 3 - Get in vaccination queue 0 - EXIT 1 covid test result -> positive </pre>

T24	<pre> Welcome to Patient Page 1 - Demand covid test 2 - Get personal information 3 - Get in vaccination queue 0 - EXIT 2 ****PERSONAL INFORMATION**** Name= test Surname= test TCKNO= 12312312 SMOKE= true VACCINATE= true SICK= true COVID= true </pre>		
T25	<table border="0"> <tr> <td style="vertical-align: top;"> <pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 83343861575 Password : cXeB0qhH0Io Welcome to Nurse Page 1 - Mark the test information 2 - Vaccinate a patinet 0 - Exit 1 Patient TCKNO : 61775977104 Welcome to Nurse Page 1 - Mark the test information 2 - Vaccinate a patinet 0 - Exit </pre> </td><td style="vertical-align: top;"> <pre> Welcome to Patient Page 1 - Demand covid test 2 - Get personal information 3 - Get in vaccination queue 0 - EXIT 2 ****PERSONAL INFORMATION**** Name= Christi Surname= Kibbee TCKNO= 61775977104 SMOKE= false VACCINATE= false SICK= false COVID= false </pre> </td></tr> </table>	<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 83343861575 Password : cXeB0qhH0Io Welcome to Nurse Page 1 - Mark the test information 2 - Vaccinate a patinet 0 - Exit 1 Patient TCKNO : 61775977104 Welcome to Nurse Page 1 - Mark the test information 2 - Vaccinate a patinet 0 - Exit </pre>	<pre> Welcome to Patient Page 1 - Demand covid test 2 - Get personal information 3 - Get in vaccination queue 0 - EXIT 2 ****PERSONAL INFORMATION**** Name= Christi Surname= Kibbee TCKNO= 61775977104 SMOKE= false VACCINATE= false SICK= false COVID= false </pre>
<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 83343861575 Password : cXeB0qhH0Io Welcome to Nurse Page 1 - Mark the test information 2 - Vaccinate a patinet 0 - Exit 1 Patient TCKNO : 61775977104 Welcome to Nurse Page 1 - Mark the test information 2 - Vaccinate a patinet 0 - Exit </pre>	<pre> Welcome to Patient Page 1 - Demand covid test 2 - Get personal information 3 - Get in vaccination queue 0 - EXIT 2 ****PERSONAL INFORMATION**** Name= Christi Surname= Kibbee TCKNO= 61775977104 SMOKE= false VACCINATE= false SICK= false COVID= false </pre>		

T26

```
Welcome to HeadPhysican Page
1 - Get patient information
2 - Get hospital data
3 - Vaccinate a patinet
4 - Demand vaccines form Minister
0 - Exit
2
Head Physician : Benyamin Aubri
Number of beds : 100
Number of tests : 1000
City : KIRŞEHİR
Vaccine info :
ASTRAZENECA-> 100
BIOENTECH-> 100
KAYSERI-> 100
SINOVAC-> 100
SPUTNIK-> 100
```

T27

```
TCKNO : 94454856493
Password : ZfGB1MNu30
Welcome to HeadPhysican Page
1 - Get patient information
2 - Get hospital data
3 - Vaccinate a patinet
4 - Demand vaccines form Minister
0 - Exit
4
Please select vaccine type
* - SINOVAC,
* - BIOENTECH
* - ASTRAZENECA
* - SPUTNIK
* - KAYSERI
KAYSERO
Wrong Vaccine Name Please Try Again
KAYSERI
Please Enter Vaccine number : 99999
Welcome to HeadPhysican Page
1 - Get patient information
2 - Get hospital data
3 - Vaccinate a patinet
4 - Demand vaccines form Minister
0 - Exit
0
EXIT...
Choose user type :
1 - Login As Health Employee
2 - Login As Patient
3 - Sign Up As Patient
0 - Exit
1

TCKNO : 88888888
Password : admin
Welcome to Minister Page
1 - Get hospital information
2 - Update announce daily statistics
3 - Add hospital
4 - Supply vaccines hospital
5 - Add doctor
6 - Remove doctor
7 - Remove hospital
8 - Add nurse
9 - Remove nurse
10 - Supply test to hospital
11 - Show last notification
0 - Exit
11
1
99999 of KAYSERI needed
```

T28	<pre> Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 1 TCKNO : 94454856493 Password : ZfGB1MNU30 Welcome to HeadPhysican Page 1 - Get patient information 2 - Get hospital data 3 - Vaccinate a patinet 4 - Demand vaccines form Minister 0 - Exit 1 Patient TCKNO : 53769809260 ****PERSONAL INFORMATION**** Name= Quintina Surname= Lithgow TCKNO= 53769809260 SMOKE= true VACCINATE= true SICK= true COVID= true </pre>	
T29	<pre> , uifstqwq=Head Physician : Piper Isakovic Number of beds : 100 Number of tests : 1000 City : KARS Vaccine info : ASTRAZENECA-> 100 BIOENTECH-> 100 KAYSERI-> 100 SINOVAC-> 100 SPUTNIK-> 100 } Choose Hospital : uifstqwq Number of tests : 850 Welcome to Minister Page 1 - Get hospital information 2 - Update announce daily statistics 3 - Add hospital 4 - Supply vaccines hospital 5 - Add doctor 6 - Remove doctor 7 - Remove hospital 8 - Add nurse 9 - Remove nurse 10 - Supply test to hospital 11 - Show last notification 0 - Exit █ , uifstqwq=Head Physician : Piper Isakovic Number of beds : 100 Number of tests : 1850 City : KARS Vaccine info : ASTRAZENECA-> 100 BIOENTECH-> 100 KAYSERI-> 100 SINOVAC-> 100 SPUTNIK-> 100 } █ </pre>	

T30	<pre> Welcome to Minister Page 1 - Get hospital information 2 - Update announce daily statistics 3 - Add hospital 4 - Supply vaccines hospital 5 - Add doctor 6 - Remove doctor 7 - Remove hospital 8 - Add nurse 9 - Remove nurse 10 - Supply test to hospital 11 - Show last notification 0 - Exit 4 PLEASE SELECT VACCINE TYPE SINOVAC, BIOENTECH ASTRAZENECA SPUTNIK KAYSERI SINOVAC Amount : 1000000 Enter hospital id : 550131557 Hospital ID : 550131557 Head Physician : 10876976400,Claiborne,Kirtley,dw05snYrd,20,0,smywmdmn Number of beds : 100 Number of tests : 1000 City : SAMSUN Vaccine info : ASTRAZENECA-> 100 BIOENTECH-> 100 KAYSERI-> 100 SINOVAC-> 1000100 SPUTNIK-> 100 </pre>
T31	<pre> EXIT... Choose user type : 1 - Login As Health Employee 2 - Login As Patient 3 - Sign Up As Patient 0 - Exit 2 TCKNO : 21059983784 Password : XdGzKS You are a patient Welcome to Patient Page 1 - Demand covid test 2 - Get personal information 3 - Get in vaccination queue 0 - EXIT 3 Welcome to Patient Page </pre>

