

# **Project Report**

**Course Code:** CSE411

**Course Title:** Software Engineering and Information System Design

**Semester:** Summer'21

**Section:** 02

**Project Name:** Smart Health Consultation Center Management System

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**Date of submission: 28 August, 2021**

## **Smart Health Consultation Center Management System**

### **1. Problems of the Conventional System:**

Health is precious to all of us. When someone gets sick they always go to visit a doctor at the hospital. Hospitals usually store patients' medical records. In the conventional system if you want to collect some medical history of yours then you have to physically go to the authority and then you can collect your required data from the authority. It is difficult to take a doctor's appointment by going to the hospital physically or through the phone call. If somehow you lost your prescription or doctor's written advice document then it is difficult to restore those documents. We can not remember every detail about our previous medical history so that in some cases this hampers the perfect treatment for future diseases. Before taking appointments by going physically, a patient can not access doctor's information perfectly from the given information that makes a patient confused who is the best doctor for them for a particular problem. If the appointment schedule is changed all patients can not get informed immediately , consequently they will go for an appointment which is a waste of time and sometimes the number of patients may exceed the doctor's capacity to examine. So the extra patients might have to return without seeing their doctor. Also patients can not easily cancel their appointment if they want. Doctors can not access patients information immediately if they are needed when they stay out of their chamber. Whenever you go to a doctor's chamber then you must carry previous documents to the chamber related to your health and sometimes you forget to carry those important documents. It is easy for a doctor to prescribe wrong medicines because the data of a prescription is not stored anywhere.

### **2. Solution For those Problems:**

If it is possible to store patient's personal and medical details in a secured online platform then it is easier for the patients to collect any of their required information any time from any place. If we are able to take a doctor's appointment from home or any place easily then it will save our time and labour. Storing prescription and doctor's suggestions in an online platform will reduce the risk of losing those documents. When a patient visits a doctor. If the doctor is able to look into the patient's every previous medical details from a secured online platform (where the patient stores his every medical details) then it would be easy for the doctor to give the patient a perfect treatment. If the patients are able to see every detail about doctors and if there is a rating system for every doctor's treatment and service then it will be easier for a particular patient to choose a particular doctor for a specific disease according to the rating and designation. If the appointment schedule gets changed then there must be an automatic system which will notify the patients about the new schedule. Also if a doctor wants to see less patients at a particular day then he can notify the patients through that automatic system. It will add more comfort if patients are able to cancel their appointment whenever they want. In an emergency situation, if a doctor wants to see a patient's previous medical data immediately then he/she can access the data online with the patient's permission. A patient does not need to carry all his/her medical documents while he/she is going to visit a doctor if he/she can store his/her medical data in a secured online platform. If there is a system where the doctor has to upload the prescription and his/her advice to an online platform then it will reduce the chance of false treatment.

We are going to design A Smart Consultation Center Management System which will have all the feature solutions we have discussed above. This website will help doctors to give service properly and also it will help patients to get a doctor's service more appropriately and comfortably.

### **3. Feasibility Study:**

**Technical Feasibility:** Our Project is technically feasible because in this project we need a Computer or a smart device, website hosting, database system, operating system, web- browser, PHP, CSS, Bootstrap, MySQL, Notepad++, and VScode. All those current technologies are cheap and with those technologies, we will be able to finish our implementation process and satisfy the users in an efficient time period.

**Operational Feasibility:** This project will ensure the patient a hassle-free appointment facility. Also, it will provide the doctor a comfortable treatment environment in an efficient way. We will ensure data security for both doctors and patients and no data will be used anywhere else. Our product will be user-friendly and any user will be able to use this product without any technical expertise.

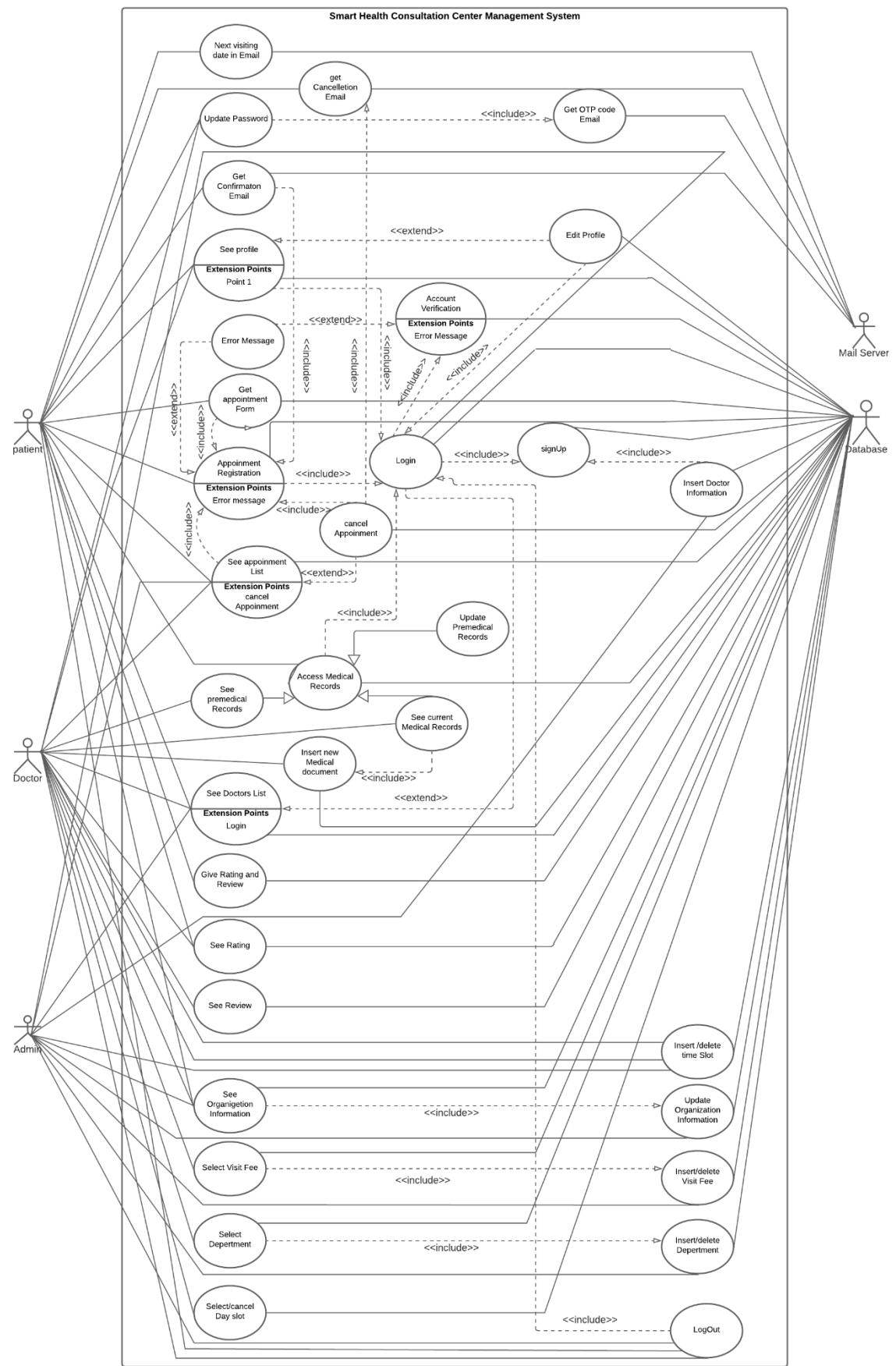
**Economical Feasibility:** There is no goal to earn money from this project. This is a non-profit project. So there is no economic feasibility of this project.

### **4. Requirement Analysis:**

- Patient Signup.
- Patient Login authentication and Login.
- Patient profile editing by patient.
- Show patient profile.
- Admin login authentication and Login
- Insert Doctors Information by Admin.
- Doctor's Login authentication and login.
- Showing Doctor Profile to doctor.
- Doctor Profile edit by doctor.
- Insert Doctor's Designation.
- Patients can see all doctors' information
- Consultation Center information inserted by admin.
- Patients can see the consultation center's Information.
- Appointment Time slot inserted by admin.
- Doctors can choose how many days they want to sit in their chamber.
- Create an appointment option.
- The patient will be able to take appointments for a specific time slot.
- Patients can print the appointment form from the website.
- Insert patients pre medical history by patient.
- Show patients medical records in their profile.
- Update patients pre medical history by patients.
- Doctor can access the patient Medical History
- The doctor can insert suggested medicine names and advice into the patient's profile
- The patient can see the suggested medicine names and advice

- The patient will be able to see a particular doctor's fee before and After confirming the appointment.
- Doctors have to access patient medical history with the unique code.
- A patient can not take an appointment which has already been taken by another patient.
- A patient cannot take appointments for previous time slots and dates.
- A patient can take an appointment for only today, tomorrow and the day after tomorrow
- The patient can see their appointment information from their profile
- Doctor can see their appointment list which patient take appointment for each doctor
- Admin can see patient list who take appointment for each doctor
- A doctor can not see or update medical records of another doctor's patient .
- Patients can cancel their appointment at any time.
- A canceled appointment slot will be available for another patient.
- After taking an appointment, the patient will get an appointment confirmation email.
- Password Reset option for Patients with OPT.
- The patient can give a rating and their opinion about the doctor.
- The patient can see the doctor's rating while choosing.
- Doctors can see their rating and review.
- Doctors can assign the next visiting date for a particular patient for a particular appointment.
- A doctor can cancel all his appointments for a particular day for unavoidable reasons.
- Patient will get a cancellation email.
- Password Reset option for Doctor.
- Doctor password encryption.
- Doctors can choose their department.
- Patient password encryption
- Admin can insert departments list
- Patients can filter doctors' lists according to the department.
- Admin can delete or change time slots according to the organization's time-table.
- Admin can delete inserted departments if changes are needed.

**5. Use Case:**  
**Use Case Diagram:**



### **Use Case Description:**

USE Case #1	Login	
Goal in Context	This use case allows patients, doctors and Admin to login to their profile on the website.	
Precondition	The Smart Health Consultation Center server should be up and running and all users should have an account.	
Success End Condition	The user will successfully login to the website and can see their profile.	
Failed End Condition	The patients, doctor and admin will fail to login to the website and can not see their profile or update anything If they input incorrect password or information.	
Primary Actor	Patient, doctor, Admin	
Secondary Actor	Database	
Trigger	When a patient, doctor, admin clicks the login button after entering required information in the login page.	
Description	Step	Action
	1	Patient, doctor and admin will go to the login page
	2	Patient or doctor will input required information in the form
	3	The user will click on the login button.
	4	The system will run queries in the database to see if the user exists and if the account verification returns true.
	5	The user will be taken to the profile page for successful login.
Extension or Variations	Step	Branching Action
	1.	Error message will be shown

USE Case #2	Account verification	
Goal in Context	This use case allows the database to verify and activate their account.	
Precondition	Users must sign up and The server is up and running.	
Success End Condition	Patient, doctor, and Admin will automatically login and redirect to his profile page.	
Failed End Condition	Patient and doctor, and Admin won't get redirected to the profile page.	
Primary Actor	Patient, doctor, Admin	
Secondary Actor	database	
Trigger	when the database returns the password to the webpage.	
Description	Step	Description
	1	System quarry the user identifier and return password
	2	Match password with the submitted password on the website.
	3	If the user gives valid information, the user gains access as a login user.
	4	Redirect to user profile page
Extension or Variations	step	Branching Action
	1	Invalid information leads to an error message.

USE Case# 3	Sign up	
Goal in Context	This use case allows users to register to the smart health consultation center and to create an account in the website.	
Precondition	The server is up and running.	
Success End Condition	User can successfully create an account	
Failed End Condition	User will fail to create account if form is not filled up correctly.	
Primary Actor	Patient	
Secondary Actor	Database	
Trigger	When user navigate to sign up page	
Description	Step	Action
	1	User request for signup page
	2	Users have to provide their Full name, NID number, user id and password, then submit it to the Database.
	3	system will store the information to the database.
	4	Users will be taken to the login page as if sign up is successful.
Extension or Variations	step	Branching Action
	1	Invalid or empty fields lead to error messages.

USE Case #4	See profile	
Goal in Context	This use case allows users to view and update their profile and all buttons by which they can enter to another page.	
Precondition	Users have to complete the login process.	
Success End Condition	Users can successfully see their profile and all options by pressing these they can enter different pages.	
Failed End Condition	Users will fail to see and update their profile and also fail to go to another page from profile.	
Primary Actor	Patient, doctor, Admin	
Secondary Actor	Database	
Trigger	When the login process is complete.	
Description	Step	Action
	1	First user login by giving required information
Extension or Variations	2	User can see all updated correct information.
		No extension

USE Case #5	Edit Profile	
Goal in Context	This use case allows the user to update his personal profile information	
Precondition	Users will have to login to their profile.	
Success End Condition	Profile information will be successfully updated	
Failed End Condition	Profile information will not be updated	
Primary Actor	Patient, doctor	
Secondary Actor	Database	
Trigger	When user press submit button after entering text in the edit profile section	
Description	Step	Action
	1	User will click on Edit profile section in the profile page
	2	Users will input text in the Edit profile section.
	3	The user will click on the submit button.
	4	The information will be saved in the database
	5	The new information will be used for further requirements.
Extension or Variations	Step	Branching Action
	1.	

USE Case #6	Appointment Registration	
Goal in Context	This use case allows users to get an appointment for taking a consultation slot from a doctor.	
Precondition	Users have to login their profile and they have to see doctor's information from where they can make an appointment.	
Success End Condition	User will take an appointment from the website	
Failed End Condition	Users can't take appointments.	
Primary Actor	Patient	
Secondary Actor	database	
Trigger	When users press the confirm button after entering their required date, day and slot for a particular doctor.	
Description	Step	Action
	1	Choose a doctor and press take appointment button
	2	give required date, day, time which will be preferable for user to take an appointment
	3	Press confirm button
	4	Verify whether given information is matched with that doctor's day and date from the database or not.
	5	Check validation of date
	6	If it is matched then verify the preferable time slot is taken or not.
	7	If given information matches with the required doctor's date, day, time slot appointment will successfully generate.
	8	Appointment information will be stored in the database.
Extension or Variations	Step	Branching Action
	1.	Error message will be shown.

USE Case #7	Get Confirmation Email	
Goal in Context	This use case allows the user to get an email from the mail server.	
Precondition	Users have to take an appointment.	
Success End Condition	Users will receive an email on their verified mail for updating and confirming their appointment information.	
Failed End Condition	Users won't get an email.	
Primary Actor	Patient	
Secondary Actor	Mail server, database	
Trigger	When the appointment process is complete.	
Description	Step	Action
	1	Database sends required information of appointment to the website.
	2	Prepare mail.
	3	Connect to the mail server.
	4	Send prepared mail to the mail server.
	5	Mail server sends mail to the mail website.
	6	Mail website sends mail to the extracted email address and shows mail to the actor.
Extension or Variations	step	Branching Action

USE Case #8	Get appointment Form	
Goal in Context	This use case allows the user to get an appointment form from the database.	
Precondition	Users have to take an appointment.	
Success End Condition	Users will receive an appointment form from the database for updating their appointment information and can download the pdf file and print from the website.	
Failed End Condition	Users won't get an appointment form.	
Primary Actor	Patient	
Secondary Actor	Database	
Trigger	When the appointment process is complete.	
Description	Step	Action
	1	Request for required information to the database after creating an appointment.
	2	Send required information to the website.
	3	Show appointment form.
	4	If the user presses print, take to the print interface.
	5	If printer is available, go to the printer and print appointment form
	6	If the printer is not available, save the pdf file to the device interface.
Extension or Variations	step	Branching Action

USE Case #9	See Appointment list	
Goal in Context	This use case allows users to see all their appointments from previous to current.	
Precondition	Users have to take an appointment first.	
Success End Condition	Users will see all their appointments from previous to current.	
Failed End Condition	Users can't see all their appointments from previous to current.	
Primary Actor	Patient, doctor,admin	
Secondary Actor	Database	
Trigger	When users press the appointment list button from their profile.	
Description	Step	Action
	1	Press see appointment list button
	2	All appointments of that particular user will be shown .
Extension or Variations	Step	Branching Action

USE Case #10	Cancel Appointment	
Goal in Context	This use case allows patients and doctors to cancel an appointment for unavoidable problem	
Precondition	Users have to take an appointment first and see their appointment list.	
Success End Condition	Patients and doctors will cancel that appointment from the website and if a patient cancels any slot then that slot will be free for another patient to take the appointment.	
Failed End Condition	Patients and doctors will not be able to cancel an appointment.	
Primary Actor	Patient, doctor	
Secondary Actor	database	
Trigger	When users press the cancel button from their appointment list.	
Description	Step	Action
	1	Request to see appointment list to the database
	2	Return appointment list to website
	3	Show an appointment list to the actor.
	4	Parallelly cancellation option to the actor.
	5	Request to cancel appointment to the website.
	6	Website sends the request to the database
	7	Find that particular slot which will be removed.
	8	Appointment information will be removed from the database.
	9	Return updated appointment list from database to website
Extension or Variations	Step	Branching Action
	1.	

USE Case #11	Update pre medical records	
Goal in Context	This use case allows patients to insert and update their pre medical records so that doctors can see patient's pre medical records and can give proper suggestions and medicine for current diseases.	
Precondition	the patient has to login.	
Success End Condition	patients will insert their pre medical records	
Failed End Condition	Patient cannot update their medical history in their profile	
Primary Actor	Patient	
Secondary Actor	database	
Trigger	When patient press submit button by inserting their medical records	
Description	Step	Action
	1	Press update pre medical records button
	2	Website give a form to fill up
	3	Insert required information about medical history.
	4	Store them to the database by pressing the submit button.
	5	Show updated pre medical records to users.
Extension or Variations	Step	Branching Action

USE Case #12	See pre medical records	
Goal in Context	This use case allows patients to see their pre medical records and allows doctors also to see patient's pre medical records so that doctors can give proper suggestions and medicine for current diseases.	
Precondition	patients have to update their pre medical records.	
Success End Condition	Patients will see their pre medical records and also doctors will see patient's pre medical records so that he or she is able to know the previous disease of the patient and also running medicine and can give proper suggestions and medicine for current diseases.	
Failed End Condition	Doctors cannot know about a patient's previous disease and running or previous medicine.	
Primary Actor	Patient, doctor	
Secondary Actor	database	
Trigger	When a doctor and patient press the total medical records button from their profile.	
Description	Step	Action
	1	Press the pre medical records button to the website.
	2	Request will go to the database
	3	Check whether that particular patient insert their pre medical records or not in the Database
	4	If records are found in database, patients and doctors will see
Extension or Variations	Step	Branching Action

USE Case #13	Insert new medical documents	
Goal in Context	This use case allows doctors to insert prescribed medical records in their patient's profile	
Precondition	patients have to take treatment before updating their current medical records by doctors.	
Success End Condition	doctors will insert prescribed medical records in their patient's profile.	
Failed End Condition	Doctors cannot give prescribed medical records in their patient's profile.	
Primary Actor	doctor	
Secondary Actor	database	
Trigger	When a doctor presses the submit button by inserting their patient's medical records in that patient's profile.	
Description	Step	Action
	1	Press insert new medical documents button
	2	Insert a secret code for accessing their patient's medical records.
	3	Verification of that secret code in the database server.
	4	Website give a form to fill up
	5	Insert required information about medical history.
	6	Check if inserting medical documents has already been done or not.
	7	If not Store them in the database by pressing the submit button.
Extension or Variations	Step	Branching Action

USE Case #14	See current medical records	
Goal in Context	This use case allows patients to see their current medical records so that they can take proper treatment and also allows doctors to see patient's current medical records.	
Precondition	doctors have to update their patient's medical records.	
Success End Condition	patients will see their current medical records so that they can take proper treatment and also allows doctors to see patient's current medical records.	
Failed End Condition	patients cannot get their prescription from the doctor in their profile.	
Primary Actor	Patient, doctor	
Secondary Actor	database	
Trigger	When a doctor and patient press the total medical records button from their profile.	
Description	Step	Action
	1	Press total current medical records button
	2	Request will go to the database
	3	Check whether that particular patient has current medical records in their profile or not .
	4	If records are found in database, patients and doctors will see
Extension or Variations	Step	Branching Action

USE Case #15	Give ratings and review	
Goal in Context	This use case allows patients to give ratings and reviews of a particular doctor who gives treatment to that patient.	
Precondition	patients have to take treatment from that doctor who will be given ratings and reviews.	
Success End Condition	patients will give ratings of a particular doctor.	
Failed End Condition	patients cannot give ratings and reviews of a particular doctor who gives treatment to that patient.	
Primary Actor	Patient	
Secondary Actor	database	
Trigger	When patients press the submit button by giving a rating and their review.	
Description	Step	Action
	1	Press total current medical records button
	2	Website give a form to give patient's opinion about doctor
	3	And give the star rating option.
	4	update ratings information.
	5	insert review information.
	6	Store them to the database by pressing the submit button.
	7	Send ratings data to the website.
	8	See ratings information for actors.
Extension or Variations	Step	Branching Action
	1	

USE Case #16	see ratings	
Goal in Context	This use case allows patients to see the previous rating of a particular doctor before taking an appointment to the doctor and allows doctors to see their ratings from patients.	
Precondition	Patients and doctors have to login.	
Success End Condition	patients will see the previous rating of a particular doctor before taking an appointment to doctor and doctor will see their ratings from patients.	
Failed End Condition	patients cannot see the previous rating of a particular doctor before taking an appointment to the doctor and the doctor cannot see their ratings from patients.	
Primary Actor	Patient, doctor	
Secondary Actor	database	
Trigger	When patients and doctors press the star rating button from their profile.	
Description	Step	Action
	1	Press the star rating button.
	2	Request will go to the database
	3	Check whether that particular doctor's have ratings and review records in the database.
	4	If records are found in database, patients and doctors will see
Extension or Variations	Step	Branching Action
	1	

USE Case #17	see review	
Goal in Context	This use case allows doctors to see all reviews from patients about them.	
Precondition	doctors have to login.	
Success End Condition	doctors will see all reviews from patients about them.	
Failed End Condition	doctors cannot see all reviews from patients about them.	
Primary Actor	doctor	
Secondary Actor	database	
Trigger	doctors press the ratings and review button from their profile.	
Description	Step	Action
	1	Press see ratings and review button.
	2	Request will go to the database
	3	Check whether that particular doctor has review records in the database.
	4	If reviews are found in database, doctors will see
Extension or Variations	Step	Branching Action
	1	

USE Case #18	Update Organization Information	
Goal in Context	This use case allows the admin to update all information on the website.	
Precondition	Admin has to login.	
Success End Condition	admin will update all information on the website.	
Failed End Condition	admin cannot update all information on the website.	
Primary Actor	admin	
Secondary Actor	Database, admin	
Trigger	When the admin presses the submit button by updating information about the consultation center.	
Description	Step	Action
	1	Press update organization information button
	2	Website gives a form to insert information about the consultation center.
	3	Insert information and submit form.
	4	Request for storing update data to the database.
	5	Store update data to the database by pressing the submit button.
	6	Show organization centre information to users.
Extension or Variations	Step	Branching Action
	1	

USE Case #19	See Organization Information	
Goal in Context	This use case allows patient, doctors to see all information on the website.	
Precondition	Admin has to insert all information about the organization.	
Success End Condition	The patient, doctor will see all the information on the website.	
Failed End Condition	The patient, doctor cannot see all the information on the website.	
Primary Actor	patient, doctor, admin	
Secondary Actor	database	
Trigger	The server is up and running and when anyone visit the website	
Description	Step	Action
	1	Enter the website address.
	2	Request will go to the database.
	3	Return information from the database to the website.
	4	Show information to users.
Extension or Variations	Step	Branching Action
	1	

USE Case #20	Insert /delete time slot	
Goal in Context	This use case allows admin to insert time slots for doctors or delete time slots of doctors if needed for changing organization time schedules.	
Precondition	Admin has to login.	
Success End Condition	admin will insert or delete time slots of the website.	
Failed End Condition	admin cannot insert or delete time slots of website.	
Primary Actor	admin	
Secondary Actor	Database	
Trigger	When admin press submit button by inserting time slots of doctors	
Description	Step	Action
	1	Request time slot interface.
	2	Website show option to insert time slots for doctors
	3	Website show option to delete time slots option
	4	Website show all inserted time slots for doctors
	5	If the admin chooses Insert time slots.
	6	Website give form to insert time slots for doctors
	7	Submit time slots
	8	Website sent to database for storing.
	9	If not duplicate data, store data
	10	Return time slots
	11	Show to the interface.
	10	If the admin chooses to delete time slots .
	12	Send delete request to the database from website
	13	Match and delete from database.
	14	Store updated slots to the database
	15	Show updated slots to admin
Extension or Variations	Step	Branching Action

USE Case #21	Select /cancel day slot	
Goal in Context	This use case allows doctors to select their preferable days to consult patients and to cancel previous selected days if needed.	
Precondition	Doctor has to login.	
Success End Condition	doctors will select their preferable days to consult patients and to cancel previous selected days if needed.	
Failed End Condition	doctors cannot select their preferable days to consult patients and to cancel previous selected days if needed..	
Primary Actor	doctor	
Secondary Actor	database	
Trigger	When doctor press submit button by selecting their preferable day slots	
	Step	Action
	1	Request to select day slot interface.
	2	Website show previous selected days if any.
	3	Website give the option to select new days.
	4	Website give the option to cancel previous days.
	5	If the doctor choose select new days.
	6	Website give the option to choose preferable days.
	7	Select preferable days.
	8	Website Send preferable days to the database for storing.
	9	If not duplicate data, store data for that particular doctor in the database.
	10	Show selected time days.
	11	If doctor choose cancel previous day slot
	12	Send delete request to the database from website
	13	Match and delete from database.
	14	Store selected days to the database
	15	Show updated days to doctor
Extension or Variations	Step	Branching Action

USE Case #22	Insert/delete visit fee	
Goal in Context	This use case allows admin to insert all visit fees of doctors so that they can choose.	
Precondition	Admin has to login.	
Success End Condition	the admin will insert the visit fee for doctors.	
Failed End Condition	admin cannot insert the visit fee of doctors.	
Primary Actor	doctor,admin	
Secondary Actor	Database	
Trigger	When admin press submit button by inserting all visit fee of doctors	
	Step	Action
	1	Request insert fee interface.
	2	Website show option to insert fee for doctors
	3	Website show option to delete fee option
	4	Website show all inserted fees for doctors
	5	If the admin chooses the Insert fee.
	6	Website give form to insert fee for doctors
	7	Submit fees
	8	Website sent to database for storing.
	9	If not duplicate data, store data
	10	Return fee data
	11	Show to the interface.
	12	If the admin chooses to delete the fee.
	13	Send delete request to the database from website
	14	Match and delete from database.
	15	Store updated fees to the database
	16	Show updated fees to admin
Extension or Variations	Step	Branching Action

	1	
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USE Case #23	Select visit fee	
Goal in Context	This use case allows doctors to select their preferable visit fee for consulting patients.	
Precondition	Admin has to insert all available visit fee of the consultation center.	
Success End Condition	doctors will select their preferable visit fee for consulting patients.	
Failed End Condition	doctors cannot select their preferable visit fee for consulting patients.	
Primary Actor	doctor	
Secondary Actor	database	
Trigger	When doctor press submit button by selecting their preferable time slots	
	Step	Action
	1	Request to select visit fee interface.
	2	Show previous selected fee
	3	Website gives a form to update the visit fee.
	4	Select preferable fees and submit a form.
	5	Send fee id to database
	6	Store update fee for that particular doctor in the database by pressing the submit button.
Extension or Variations	Step	Branching Action
	1	

USE Case #24	Insert/delete department	
Goal in Context	This use case allows admin to insert all available departments of doctors and delete departments according to consultation centre rules.	
Precondition	Admin has to login.	
Success End Condition	admin will insert or delete all available departments of doctors if needed.	
Failed End Condition	admin cannot insert or delete all available departments of doctors if needed.	
Primary Actor	doctor,admin	
Secondary Actor	database	
Trigger	When admin press submit button by inserting all available departments of doctors.	
	Step	Action
	1	Request insert department interface.
	2	Website show option to insert department for doctors
	3	Website show option to delete department option
	4	Website show all inserted department for doctors
	5	If the admin chooses the Insert department.
	6	Website give form to insert department for doctors
	7	Submit department
	8	Website sent to database for storing.
	9	If not duplicate data, store data
	10	Return department data
	11	Show to the interface.
	12	If the admin chooses to delete the department.
	13	Send delete request to the database from website
	14	Match and delete from database.
	15	Store updated department to the database

	16	Show updated department to admin
Extension or Variations	Step	Branching Action
	1	

USE Case #25	Select department	
Goal in Context	This use case allows doctors to select their department.	
Precondition	Admin has to insert all available departments.	
Success End Condition	doctors will select their department.	
Failed End Condition	doctors cannot select their department	
Primary Actor	doctor	
Secondary Actor	database	
Trigger	When doctor press submit button by selecting their preferable time slots	
	Step	Action
	1	Request to select department interface.
	2	Show previous selected department
	3	Website gives a form to update the department.
	4	Select the correct department and submit the form.
	5	Send department id to database
	6	Store update department for that particular doctor in the database by pressing the submit button.
Extension or Variations	Step	Branching Action
	1	

USE Case #26	Insert doctor information	
Goal in Context	This use case allows admin to insert all available doctor's information so that patients can choose a doctor for taking appointments.	
Precondition	Admin has to login.	
Success End Condition	admin will insert all available doctor's information	
Failed End Condition	admin cannot insert all available doctor's information.	
Primary Actor	patient,admin	
Secondary Actor	database	
Trigger	When admin press submit button by inserting all available doctor's information	
Description	Step	Action
	1	Request insert doctor information interface.
	2	Website give option to insert information for doctors
	3	Insert all available doctor's information.
	4	Send information to database
	5	Check if email is unique
	6	Check if NID number is unique
	7	If unique, store in the database.
	8	Show stored information to the actor.
Extension or Variations	Step	Branching Action
	1	

USE Case #27	See doctor list	
Goal in Context	This use case allows patients to see available doctor's information.	
Precondition	Admin has to insert all available doctor's information.	
Success End Condition	patients will see all available doctor's information.	
Failed End Condition	patients cannot see all available doctor's information.	
Primary Actor	patient,doctor,admin	
Secondary Actor	database	
Trigger	When patients press the see doctor list button.	
	Step	Action
	1	Request to see doctor list interface to Website.
	2	Request for available doctor's department to database.
	3	Database will send all available doctor's lists to the website.
	4	Request for selecting department to actor
	5	Submit department name to website.
	6	Send department id to database.
	7	Find doctor list by department id in the database.
	8	Return selected doctor's list to the website
	9	Show doctor's list to the user.
Extension or Variations	Step	Branching Action
	1	Show No doctor available in this department.

USE Case #28	Update password	
Goal in Context	This use case allows the patients and doctors to reset their password.	
Precondition	patients and doctors will have to enter to the login page and The server is up and running.	
Success End Condition	Profile password will be successfully updated	
Failed End Condition	Profile password will not be updated	
Primary Actor	Patients, doctors	
Secondary Actor	database	
Trigger	When the user clicks the submit button after entering OTP code in the “new Password” section.	
	Step	Action
	1	User will click on “forget password” section in the login page
	2	Website give a form to enter an email address.
	3	Enter email address and submit it.
	4	Email server send an OTP code to the email
	5	Enter the code and give a new password and confirm the password then submit.
	6	System check submitted OTP is matched with mail OTP or not
	7	The system will check if the new password matches with the confirm password
	8	If all the previous steps are successful, the new password will be saved in the database.
	9	Show login interface to user.
Extension or Variations	Step	Branching Action
	1.	Show wrong OTP or error message

USE Case #29	Get OTP code Email	
Goal in Context	This use case allows the user to get an OTP code email from the mail server.	
Precondition	Users have to give valid mains from the forget password section.	
Success End Condition	Users will receive an OTP code on their verified mail for updating password.	
Failed End Condition	Users won't get OTP code to their email.	
Primary Actor	Patient, doctor	
Secondary Actor	Mail server, database	
Trigger	Users must click on submit after entering their email address from the forget password mail.	
Description	Step	Action
	1	Enter email address and submit
	3	Verify email address is valid and match with user email or not within the database.
	4	If the email address is valid, notify that email address exists to the website.
	5	prepared a mail which carries OTP code in the website.
	6	Connect to the mail server.
	7	Send prepared mail to the mail server.
	8	Mail server sends mail to the mail website.
	9	Mail website sends mail to the extracted email address and shows mail to the actor.
Extension or Variations	step	Branching action
	1	Show error message if mail address is not valid.

USE Case #30	Get cancellation Email	
Goal in Context	This use case allows users to get cancellation emails from mail servers.	
Precondition	The doctor has to cancel the patient's appointment.	
Success End Condition	the user will get a cancellation email from the mail server.	
Failed End Condition	the user will not get a cancellation email from the mail server.	
Primary Actor	Patient	
Secondary Actor	Mail server, database	
Trigger	doctor must click on cancel after entering their appointment list	
	Step	Action
	1	Doctor will cancel an appointment
	2	Cancel will be held in the database.
	3	System queries that particular patient's email whose appointment has been cancelled.
	4	Prepare mail on the consultation center website.
	5	Connect to the mail server.
	6	Send prepared mail to the mail server.
	7	Mail server sends mail to the mail website.
	8	Mail website sends mail to the extracted email address and shows mail to the actor.
Extension or Variations	step	No Extension

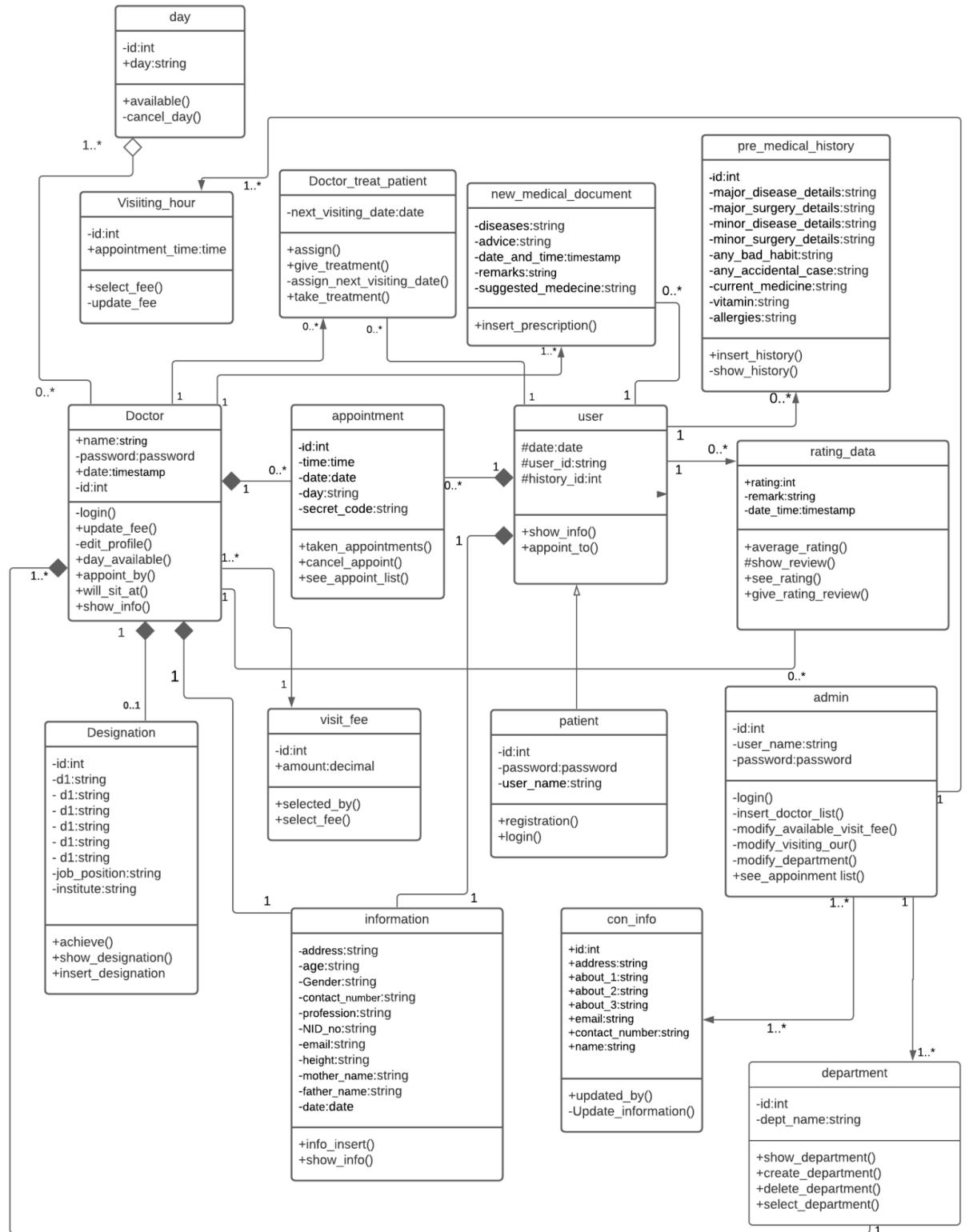
USE Case #31	Next visiting date in email	
Goal in Context	This use case allows the user to get an email of Next visiting date from the mail server.	
Precondition	the doctor has to appoint the next visiting date to the patient.	
Success End Condition	the user will get notified of their next visiting date to the doctor.	
Failed End Condition	users will not get notified of their next visiting date to the doctor.	
Primary Actor	Patient	
Secondary Actor	Mail server, database	
Trigger	doctor must click on cancel after entering their appointment list	
Description	Step	Action
	1	Doctor has to appoint the next visiting date to the patient.
	2	Prepare mail which carries the next visiting date on the consultation center website.
	3	Connect to the mail server.
	4	Send prepared mail to the mail server.
	5	Send date to the database
	6	Assign date to the patient in the database
	7	Mail server sends mail to the mail website.
	8	Mail website sends mail to the extracted email address and shows mail to the actor.
Extension or Variations	step	No Extension

USE Case #32	Error message	
Goal in Context	This use case allows users to view a message which is a sign whether their operation is successful or not	
Precondition	Users have to start a transaction.	
Success End Condition	Users will successfully see a message which is a sign whether their operation is successful or not.	
Failed End Condition	Users fail to see a message which is a sign that operation is successful.	
Primary Actor	Patient, doctor, Admin	
Secondary Actor	Website	
Trigger	When any transaction process is not complete.	
Description	Step	Action
	1	First user will start any transaction.
	2	Transaction failed
Extension or Variations		No extension

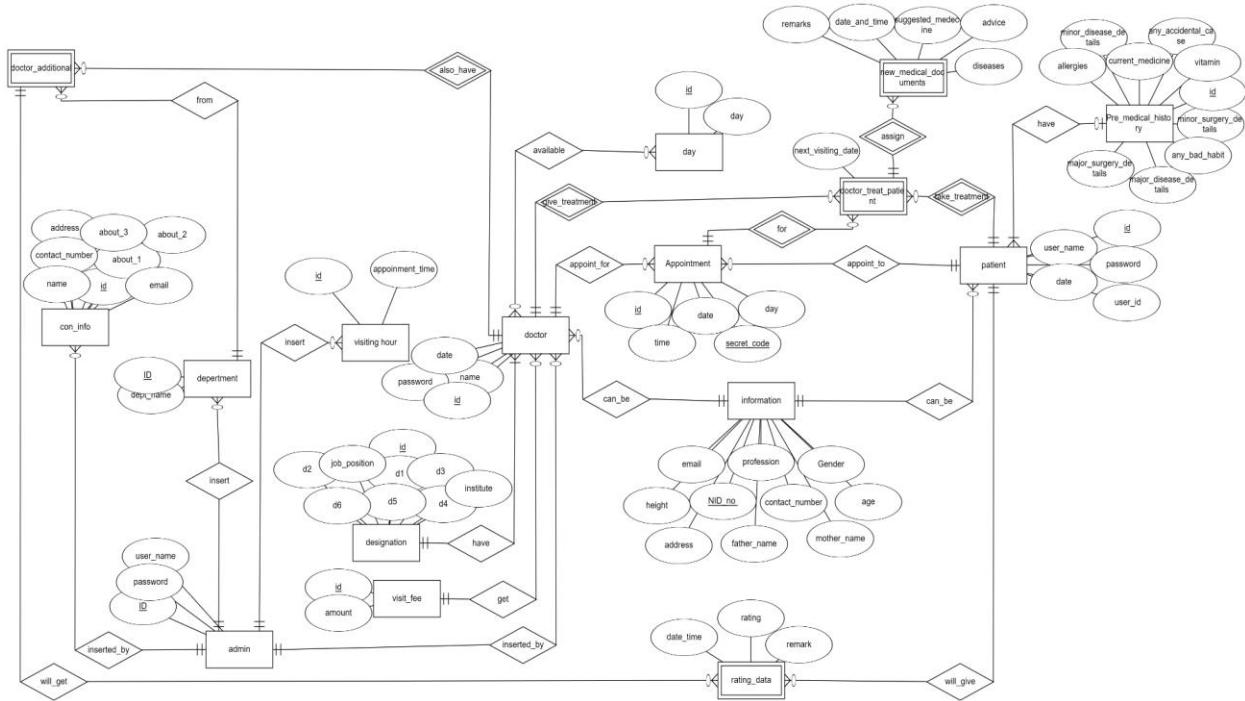
USE Case #33	Access Medical Records	
Goal in Context	This use case allows the user to logout from the website.	
Precondition	The Smart Health Consultation Center should be up and running.	
Success End Condition	The user will successfully logout from the account.	
Failed End Condition	The user will fail to logout from the website	
Primary Actor	Patient	
Secondary Actor	Database, admin	
Trigger	When the user clicks the logout button on the navigation bar.	
	Step	Action
	1	Request all medical records interface
	2	Show current medical records option
	3	Show pre medical records option
	4	Show update pre medical records option
	5	If user press current medical records option show current all medical records to the user
	6	If user press pre medical records option show all pre all medical records to the user
	7	If the user presses the update pre medical records option website gives a form.
	8	Submit form
	9	Store information in the database
	10	Send update information to the website
	11	Show update information to the user.
Extension or Variations	Step	Branching Action
	1.	

USE Case #34	Logout	
Goal in Context	This use case allows the user to logout from the website.	
Precondition	The Smart Health Consultation Center should be up and running.	
Success End Condition	The user will successfully logout from the account.	
Failed End Condition	The user will fail to logout from the website	
Primary Actor	Patient, doctor	
Secondary Actor	Database, admin	
Trigger	When the user clicks the logout button on the navigation bar.	
Description	Step	Action
	1	User will click on the logout button
	2	The system will end the user's session
	3	The user will be taken to the home page
Extension or Variations	Step	Branching Action
	1.	

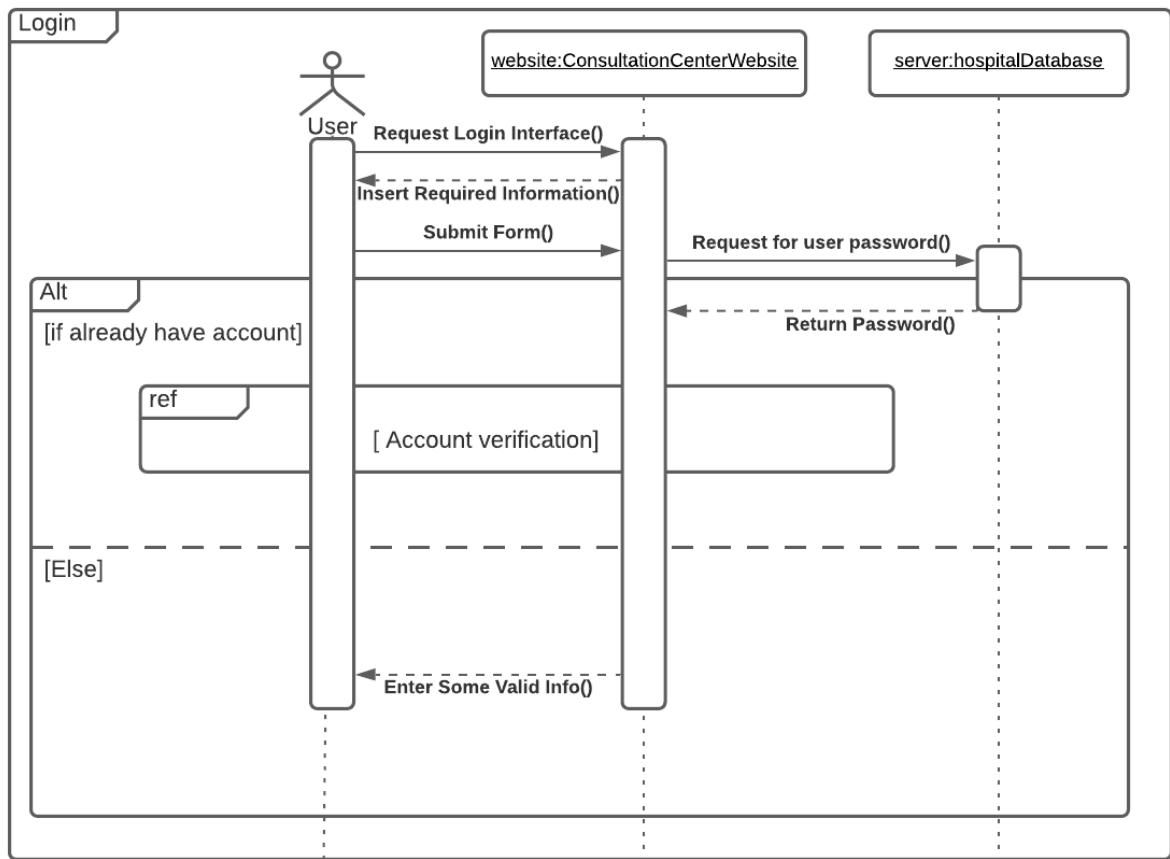
## 6. UML Class Diagram:

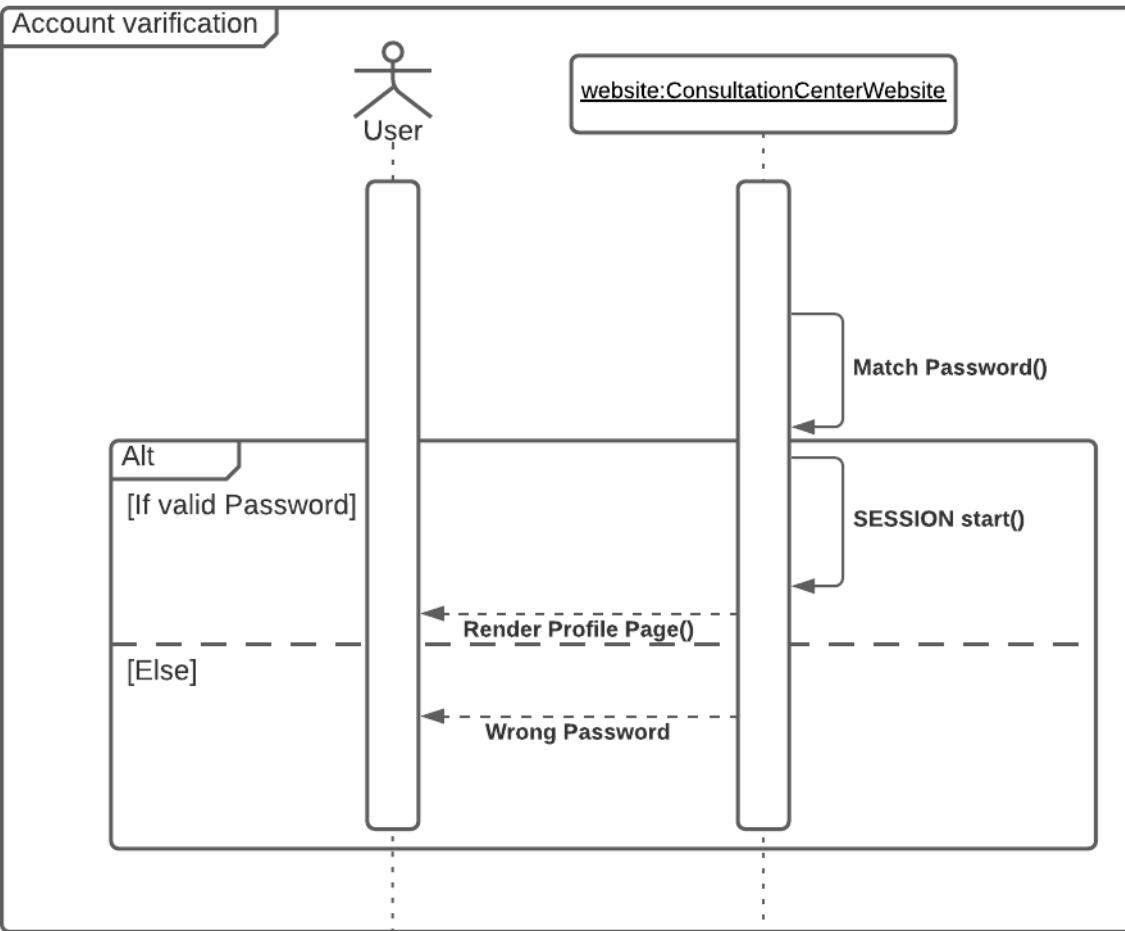


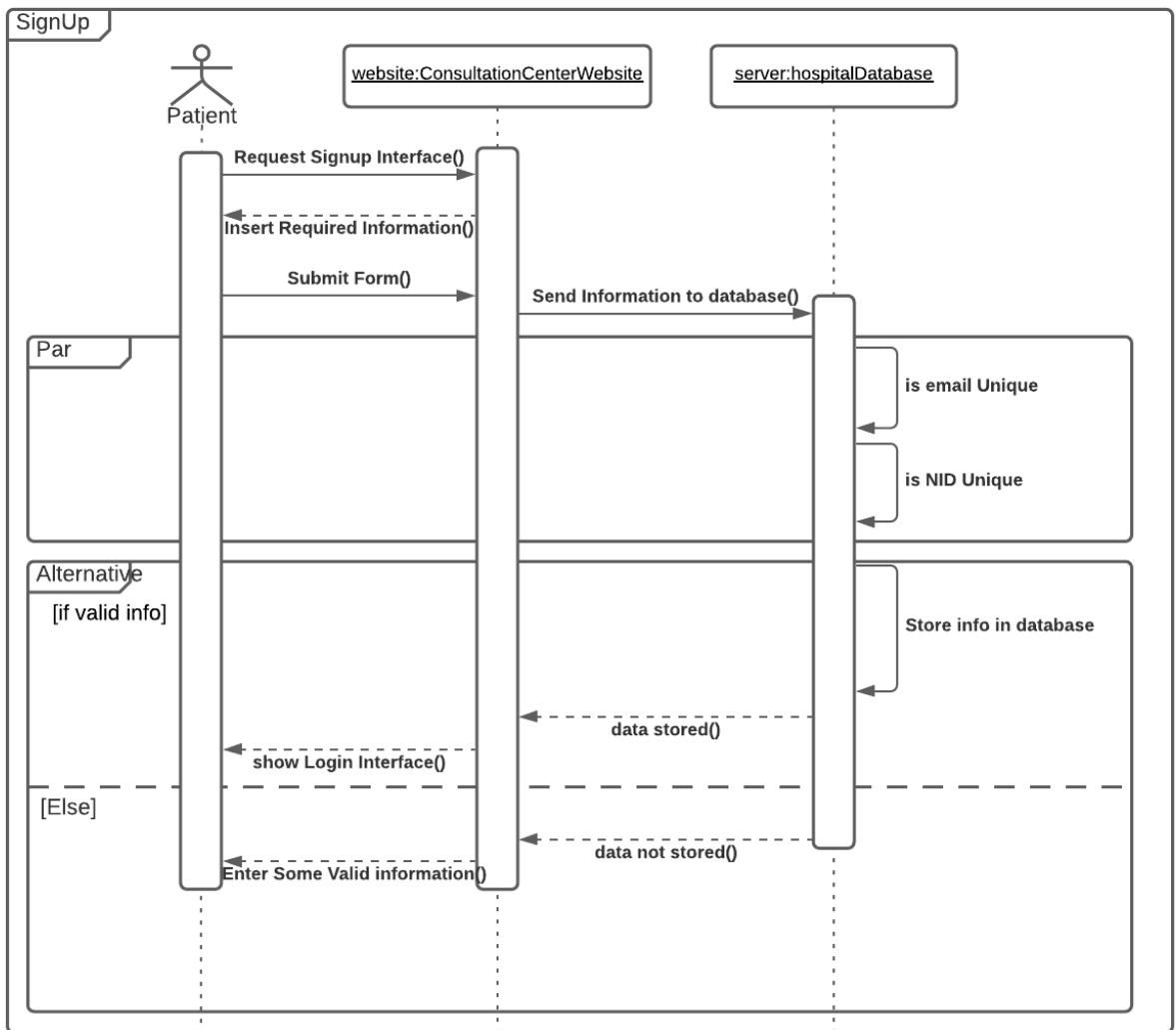
## 7. ER- Diagram:

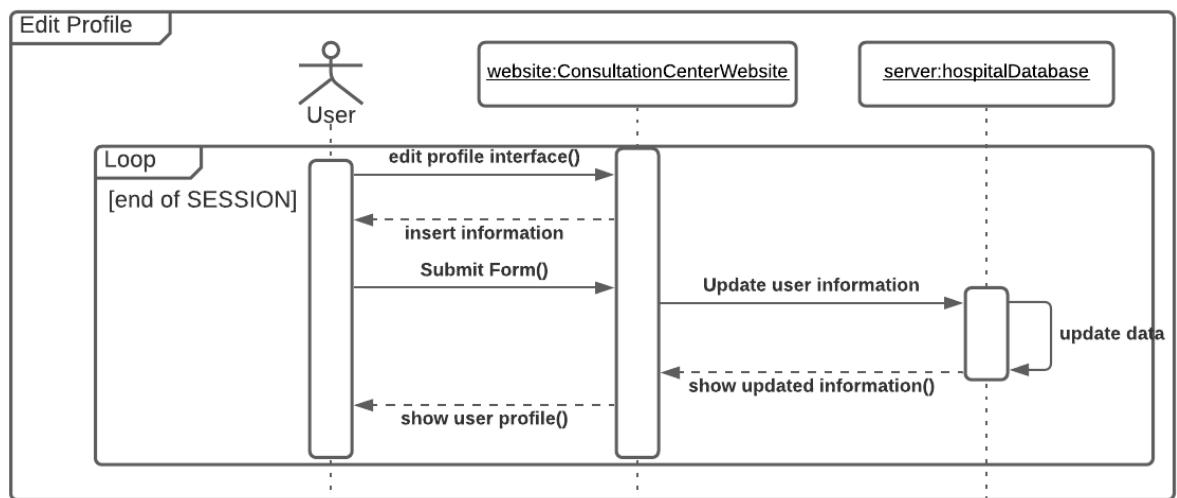
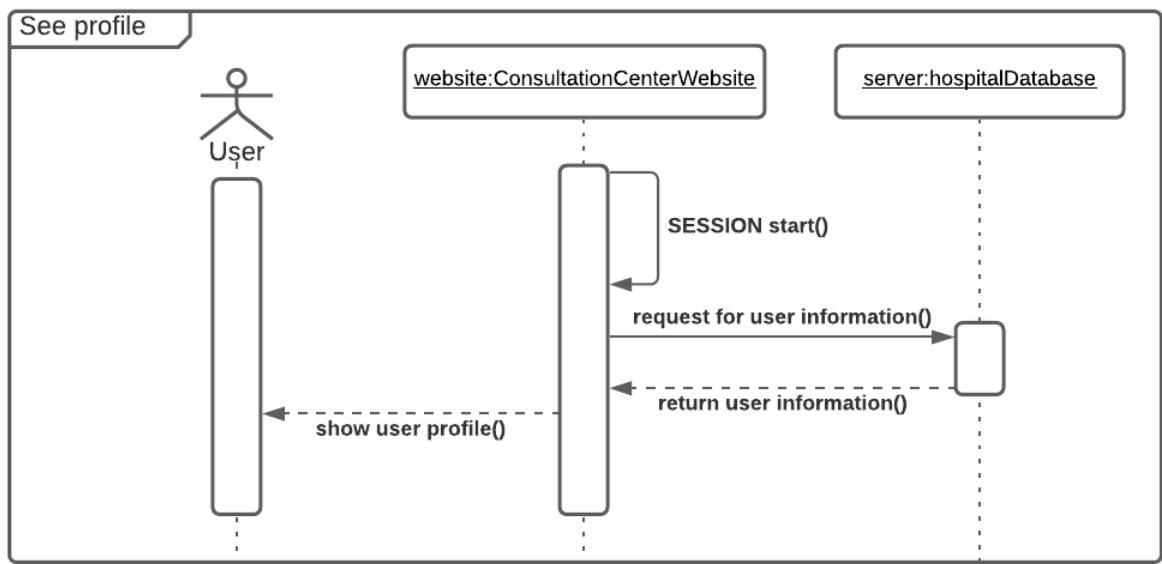


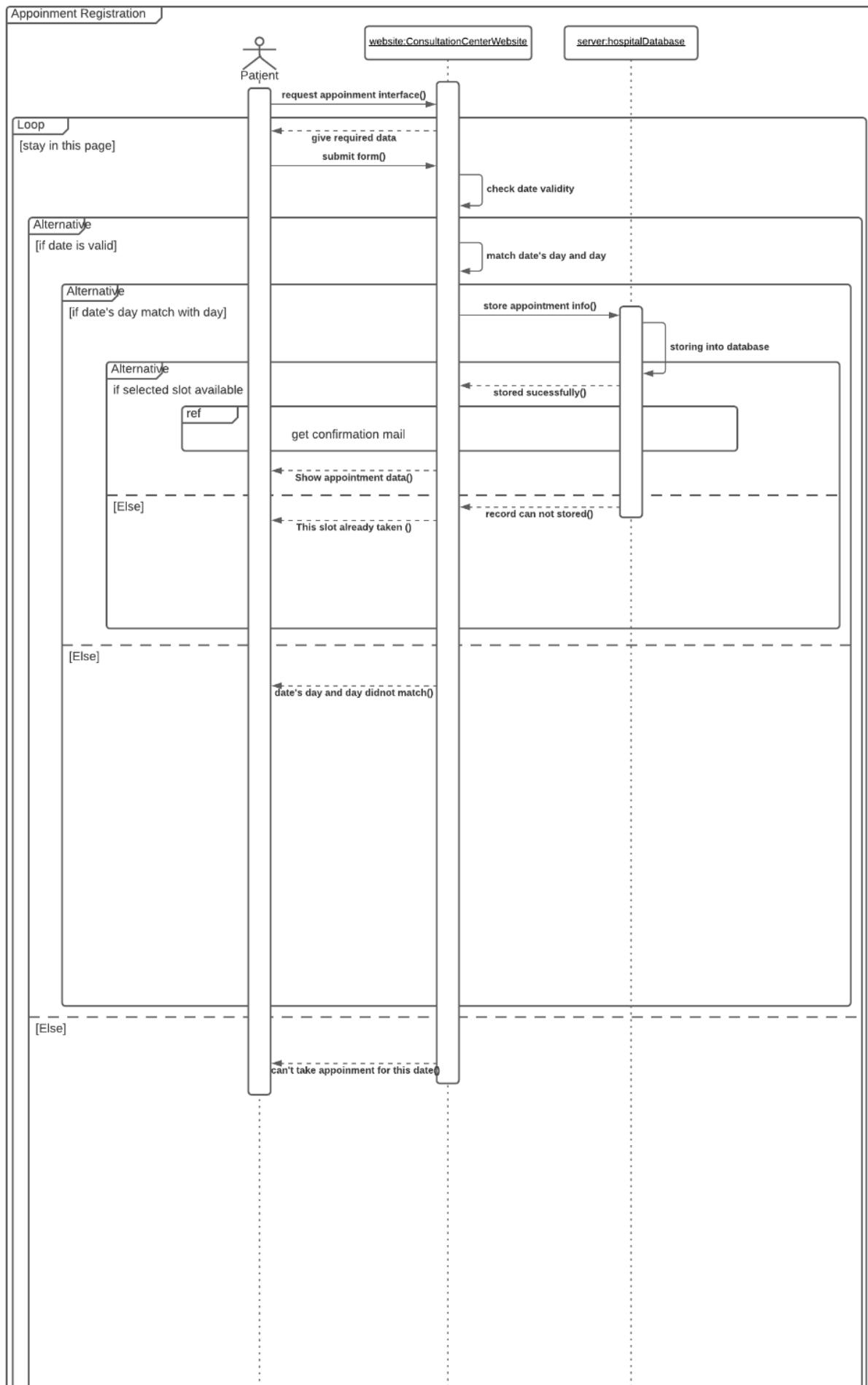
## **8. Sequence Diagram:**

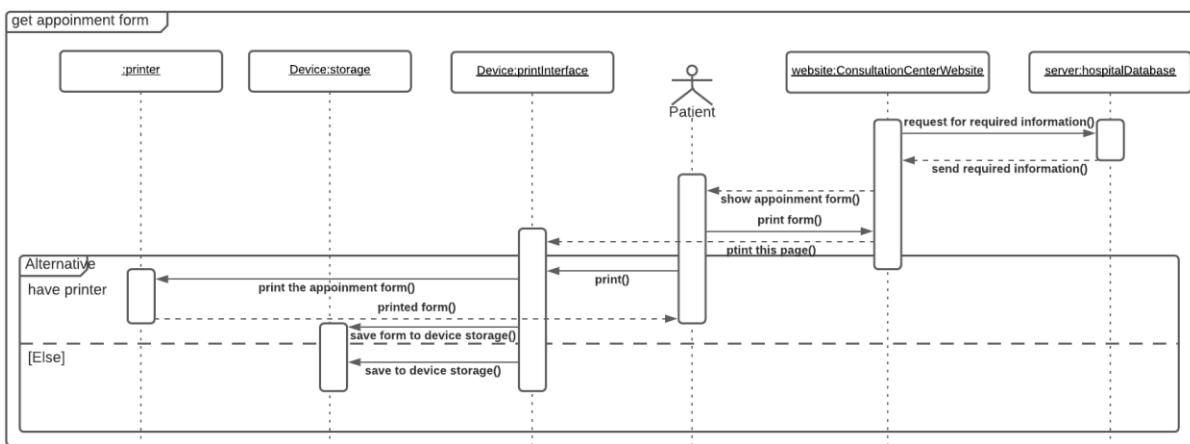
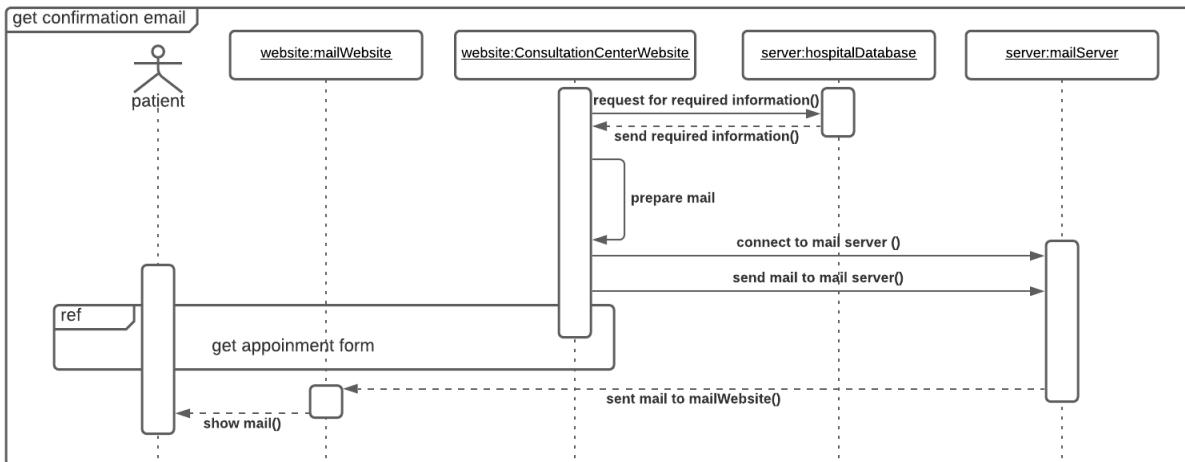


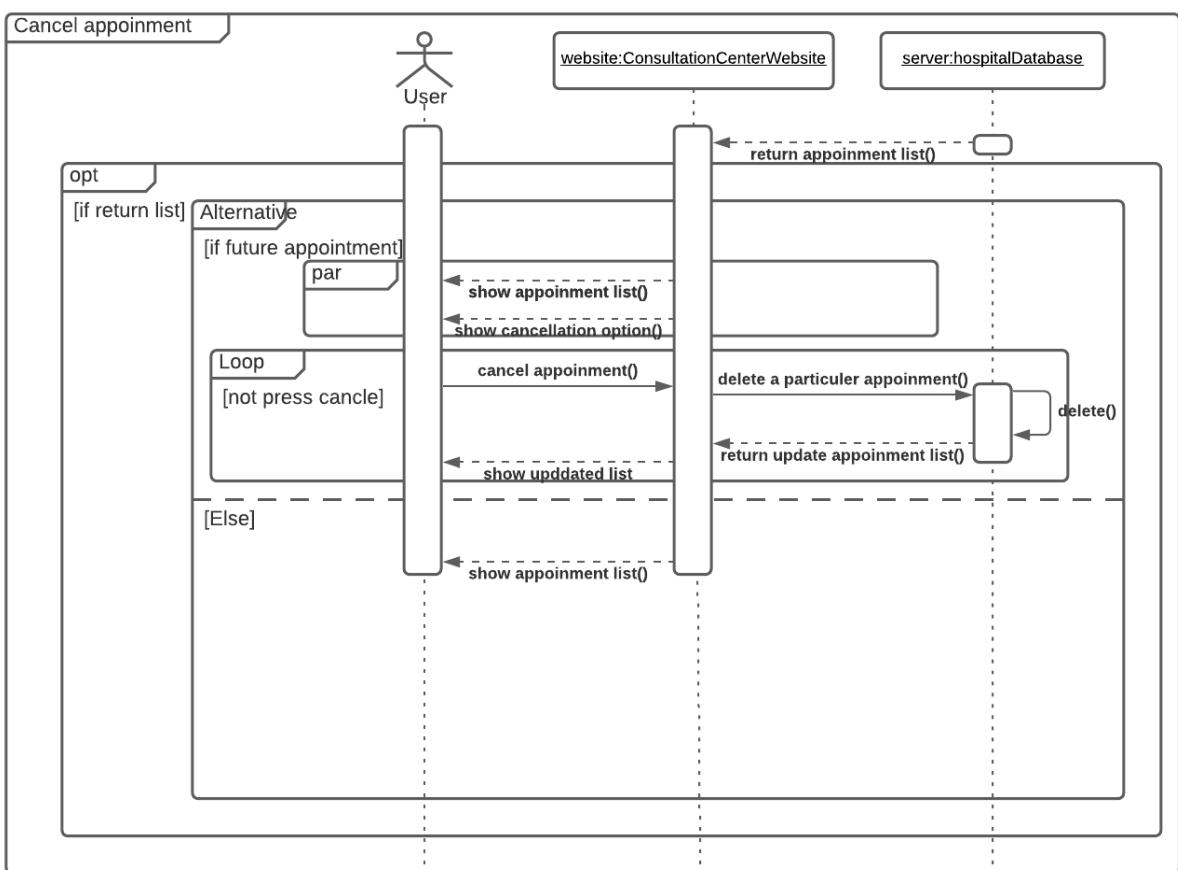
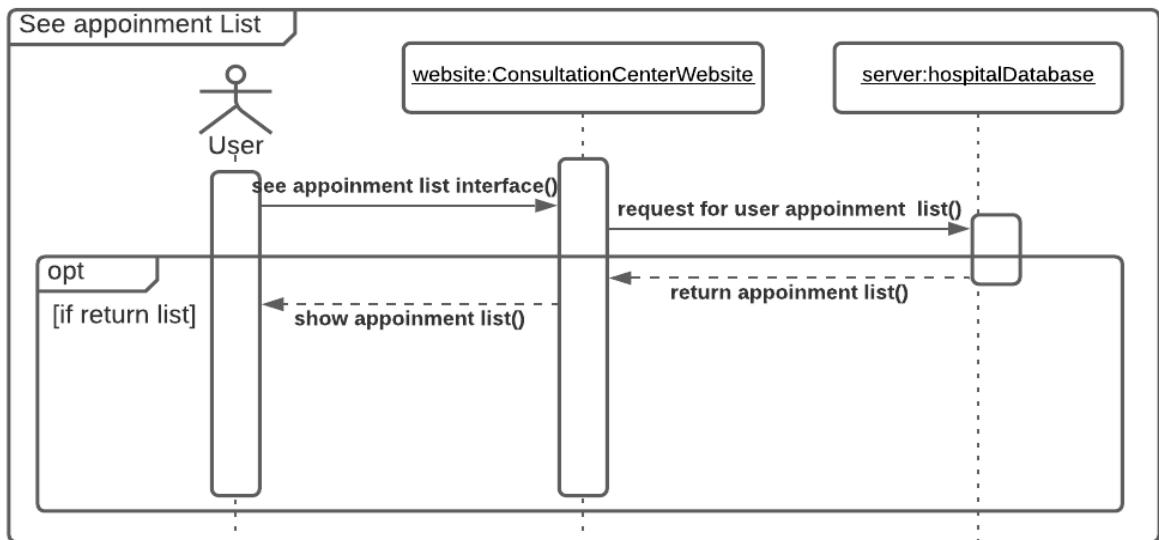


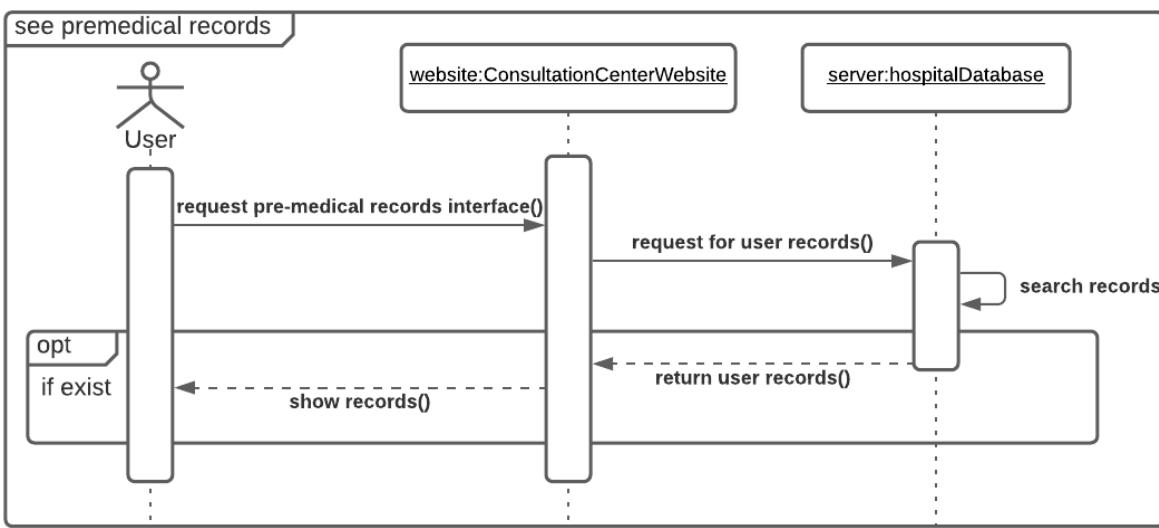
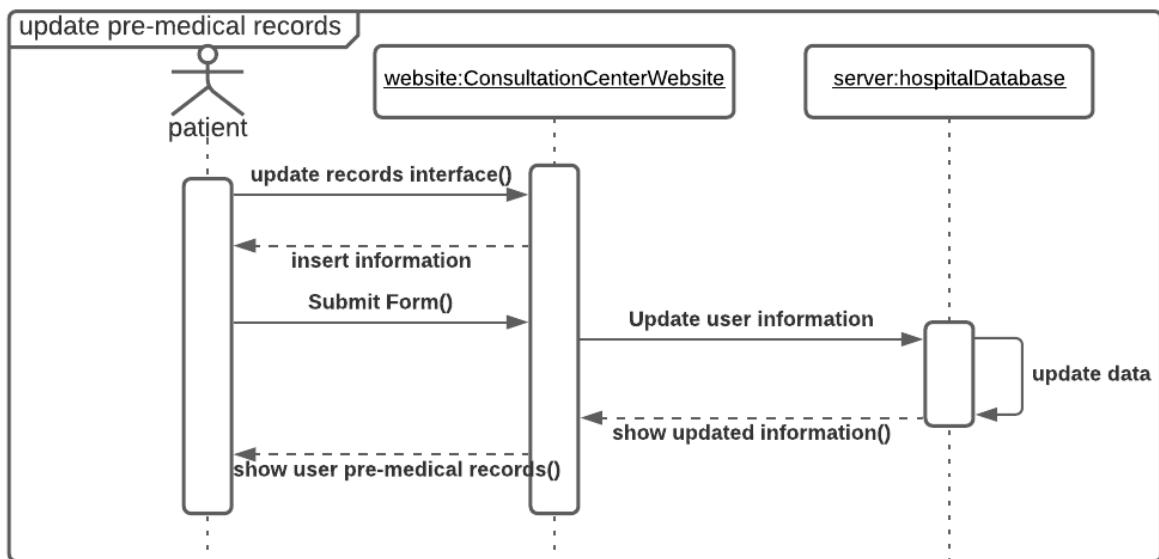


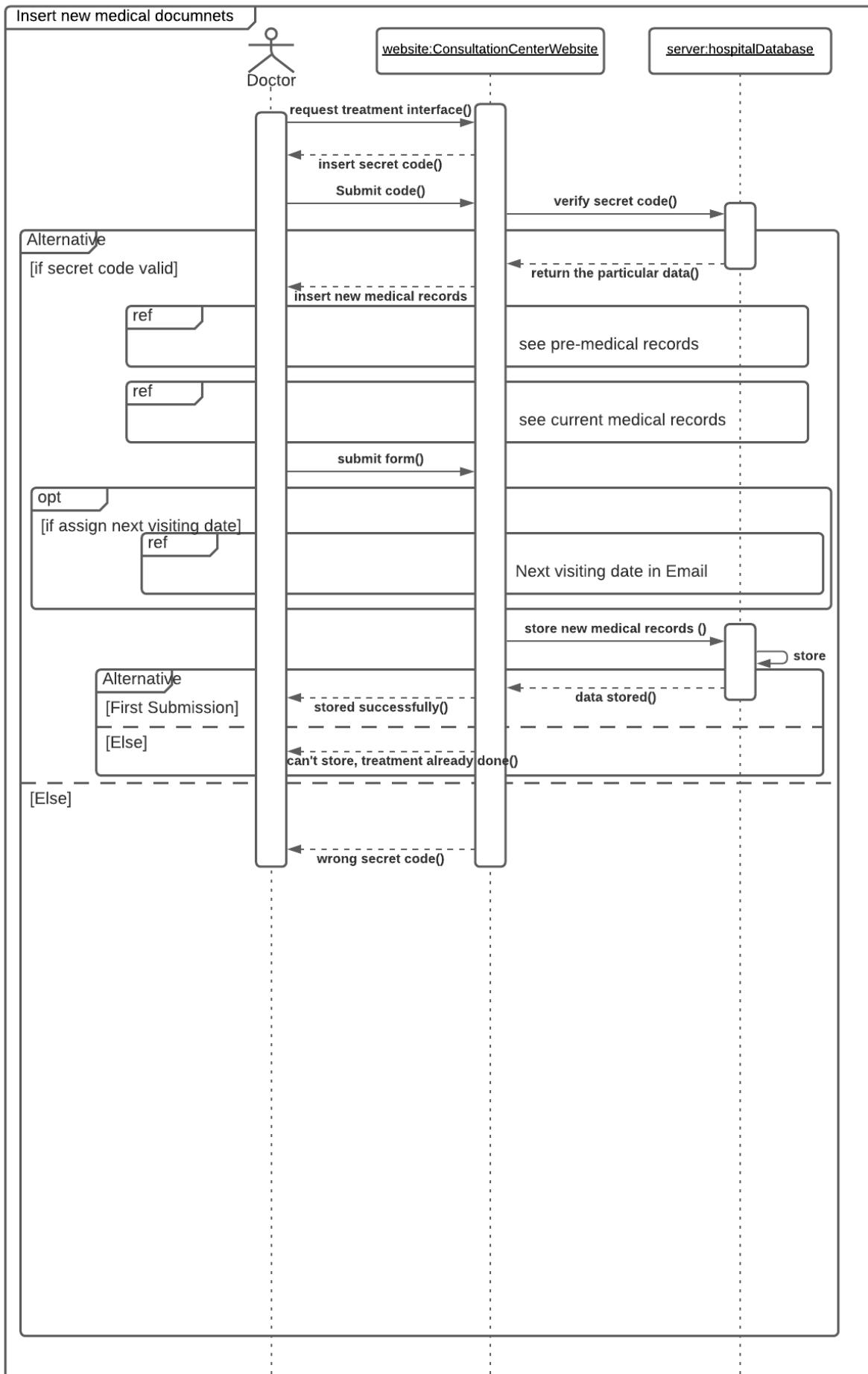


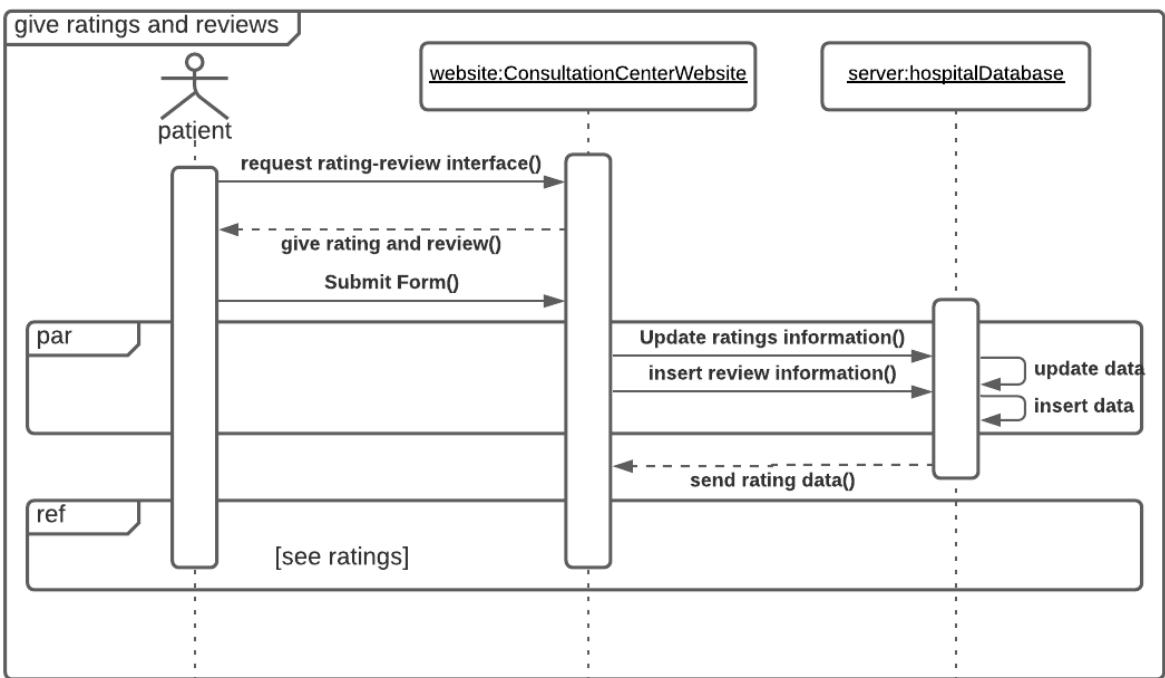
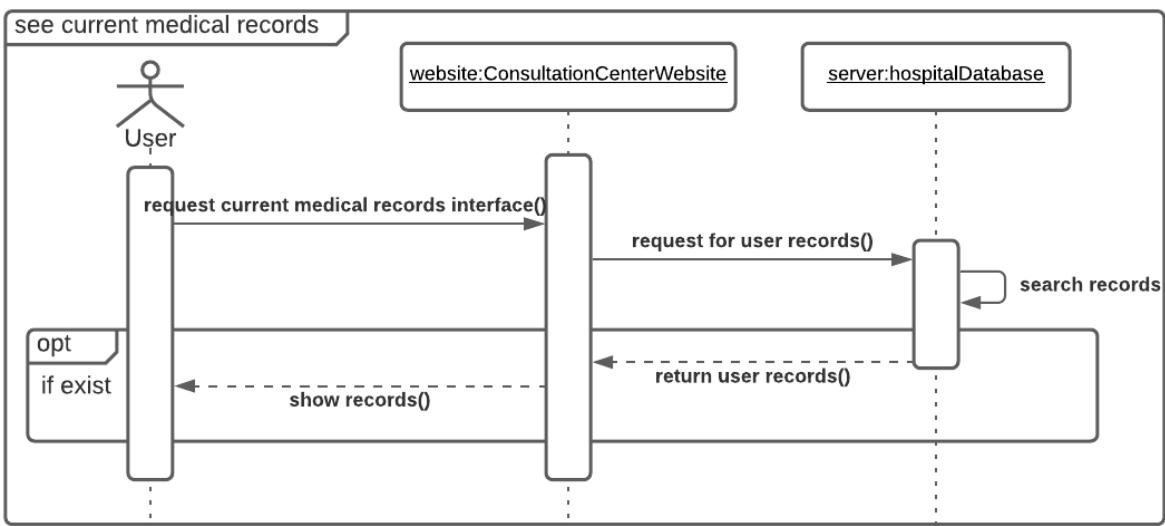


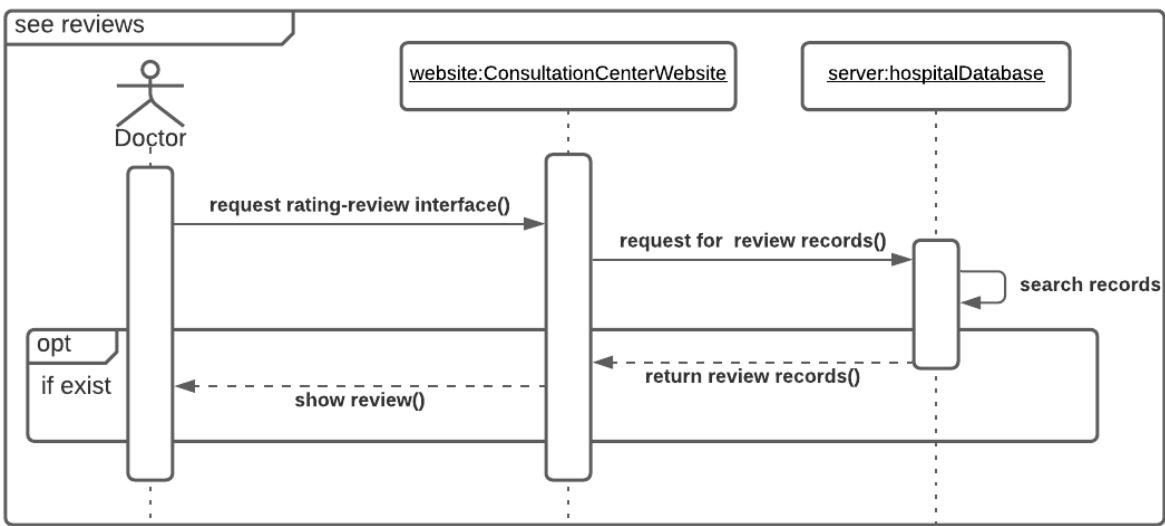
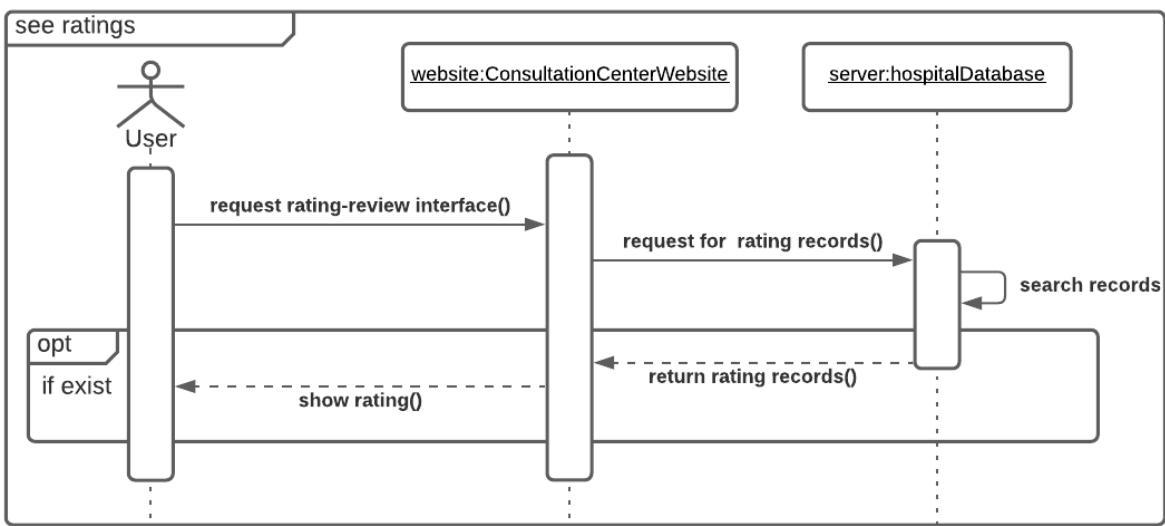


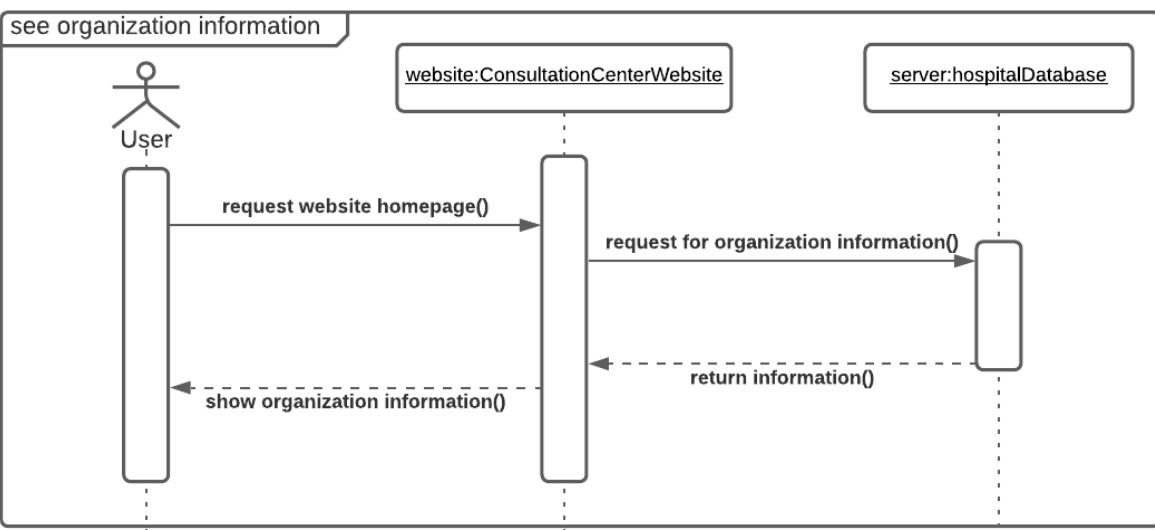
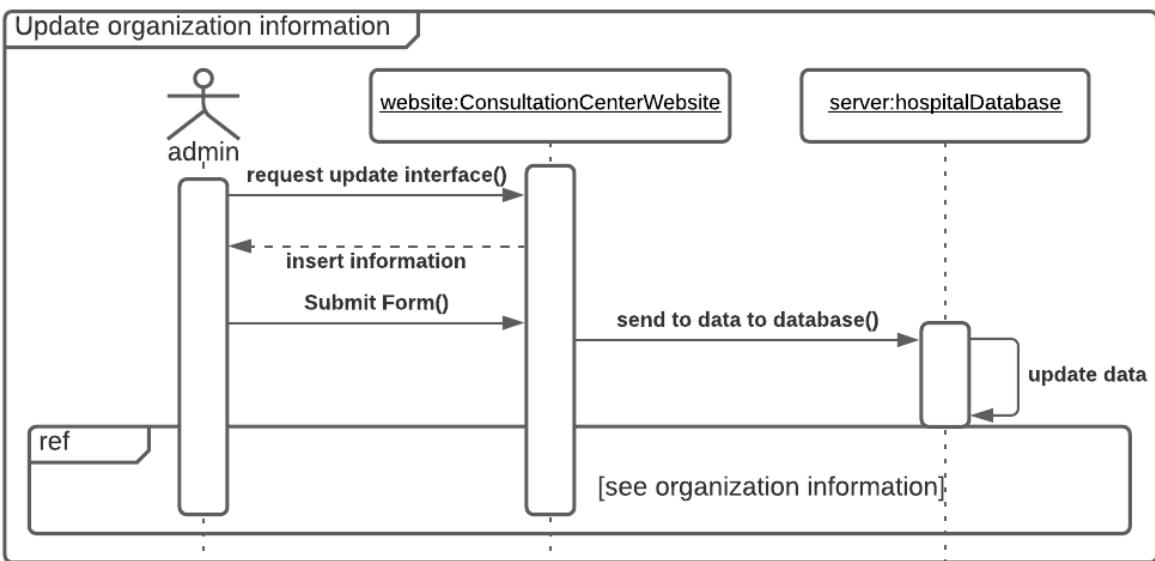


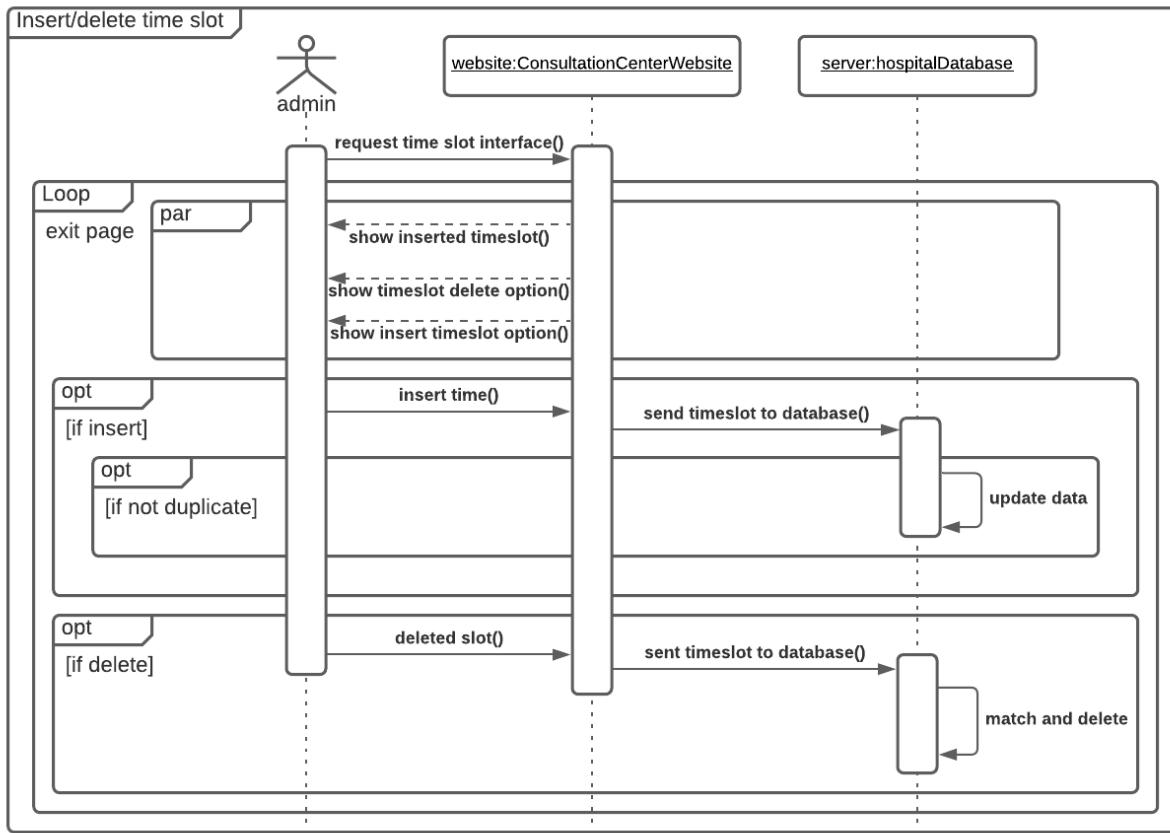


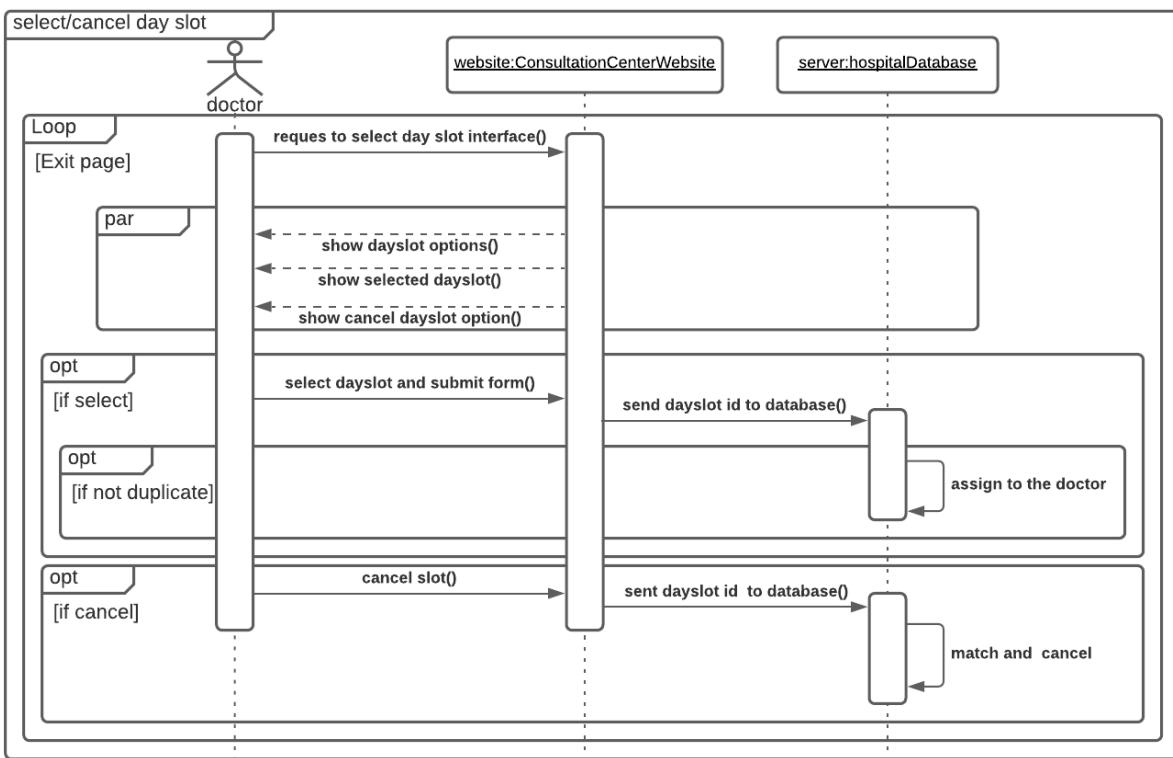


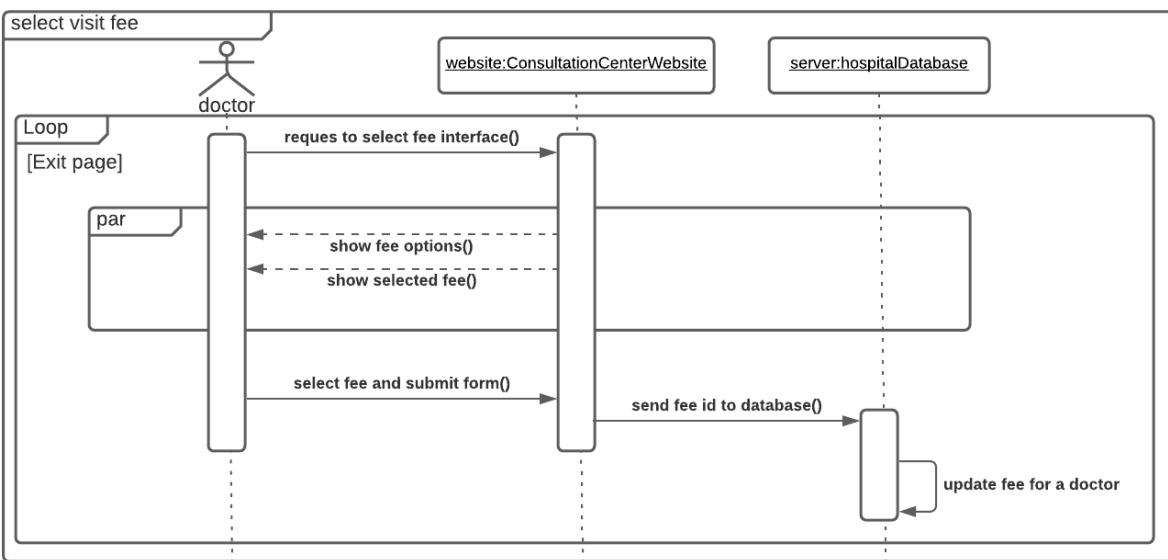
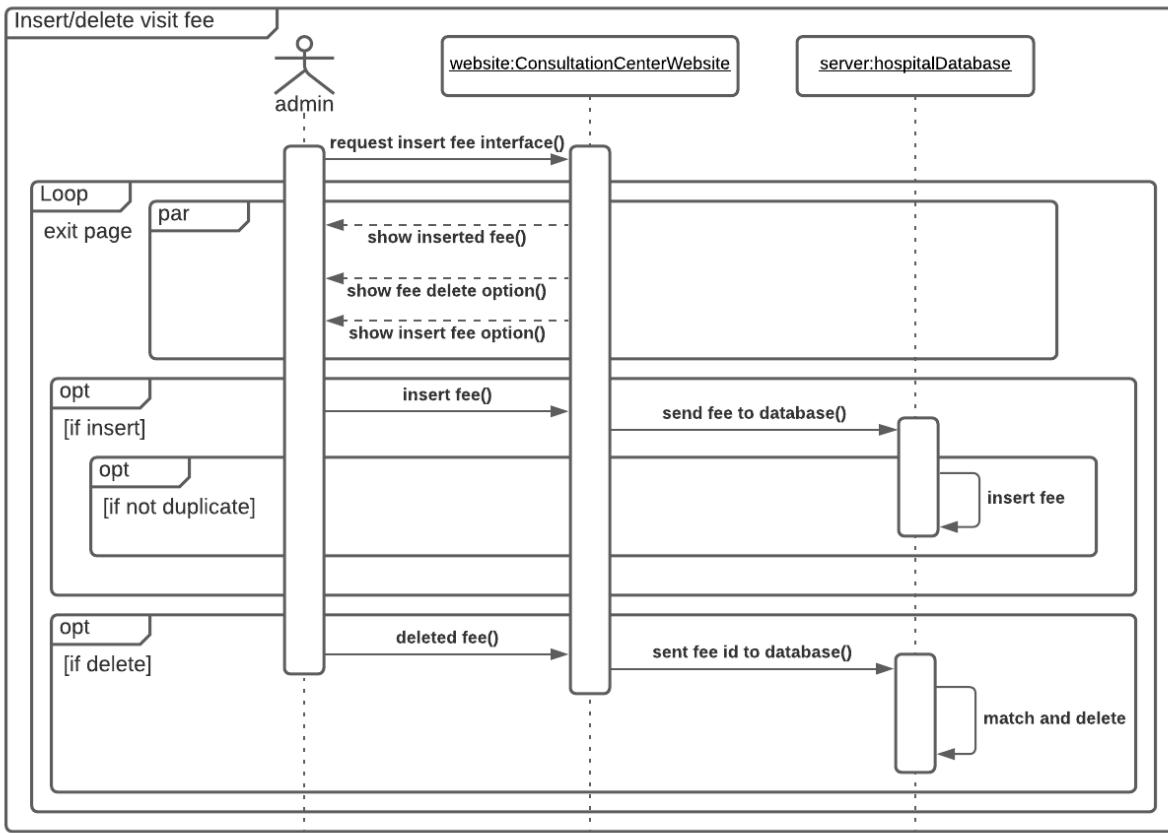


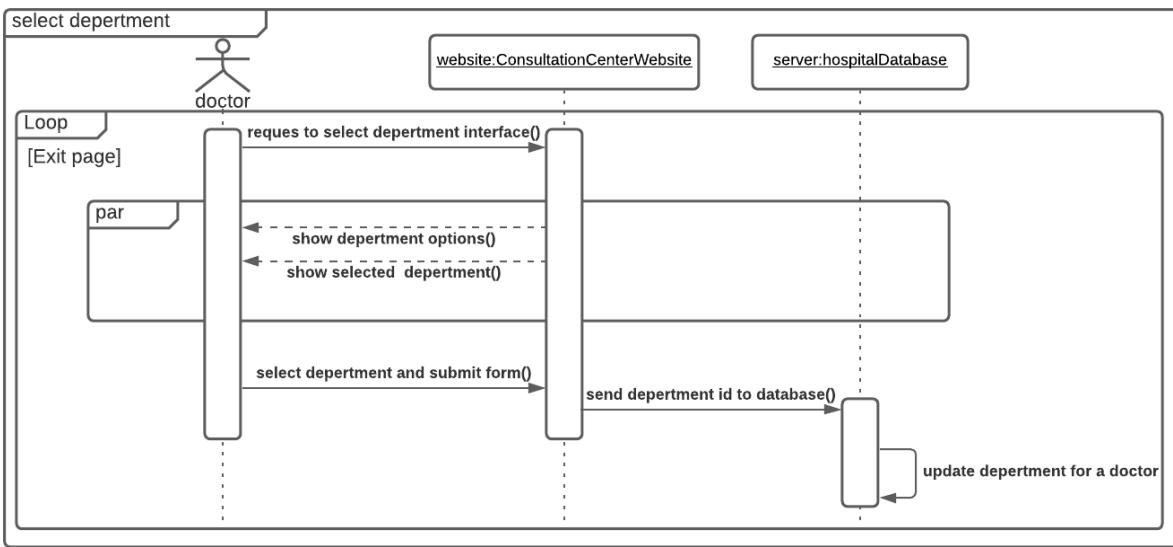
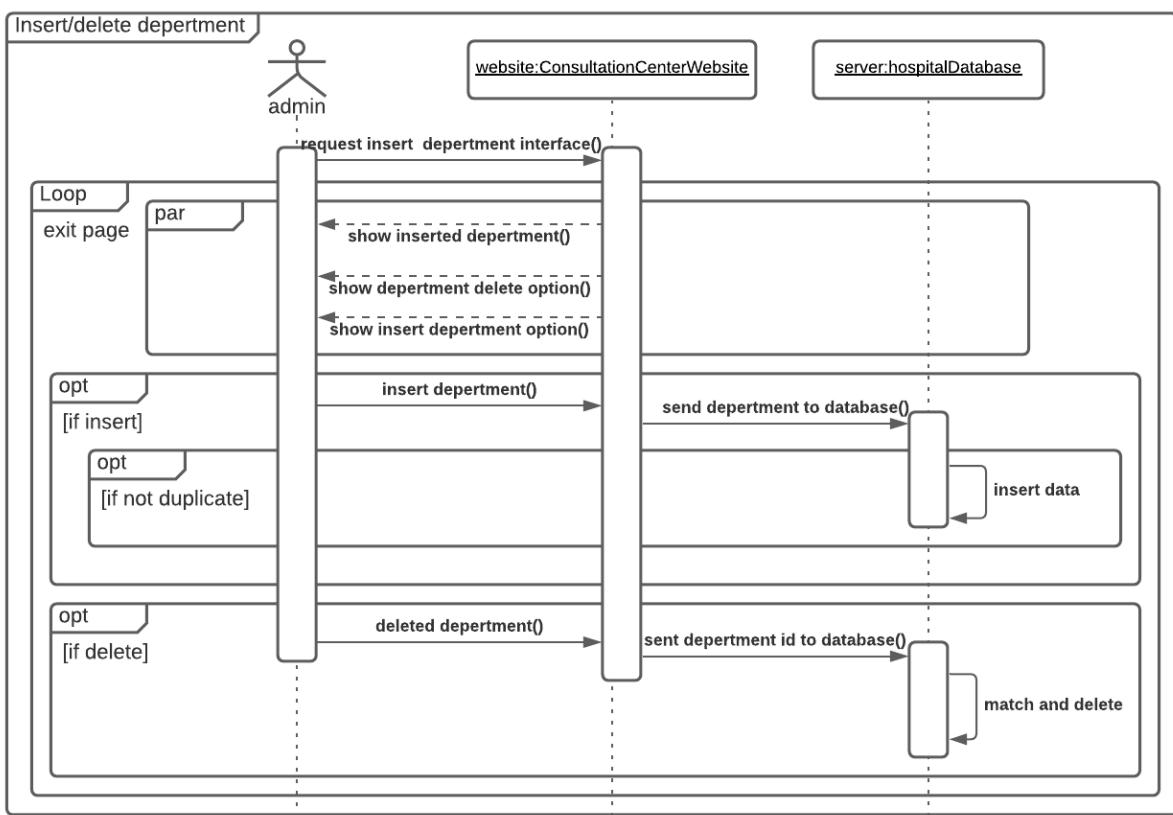


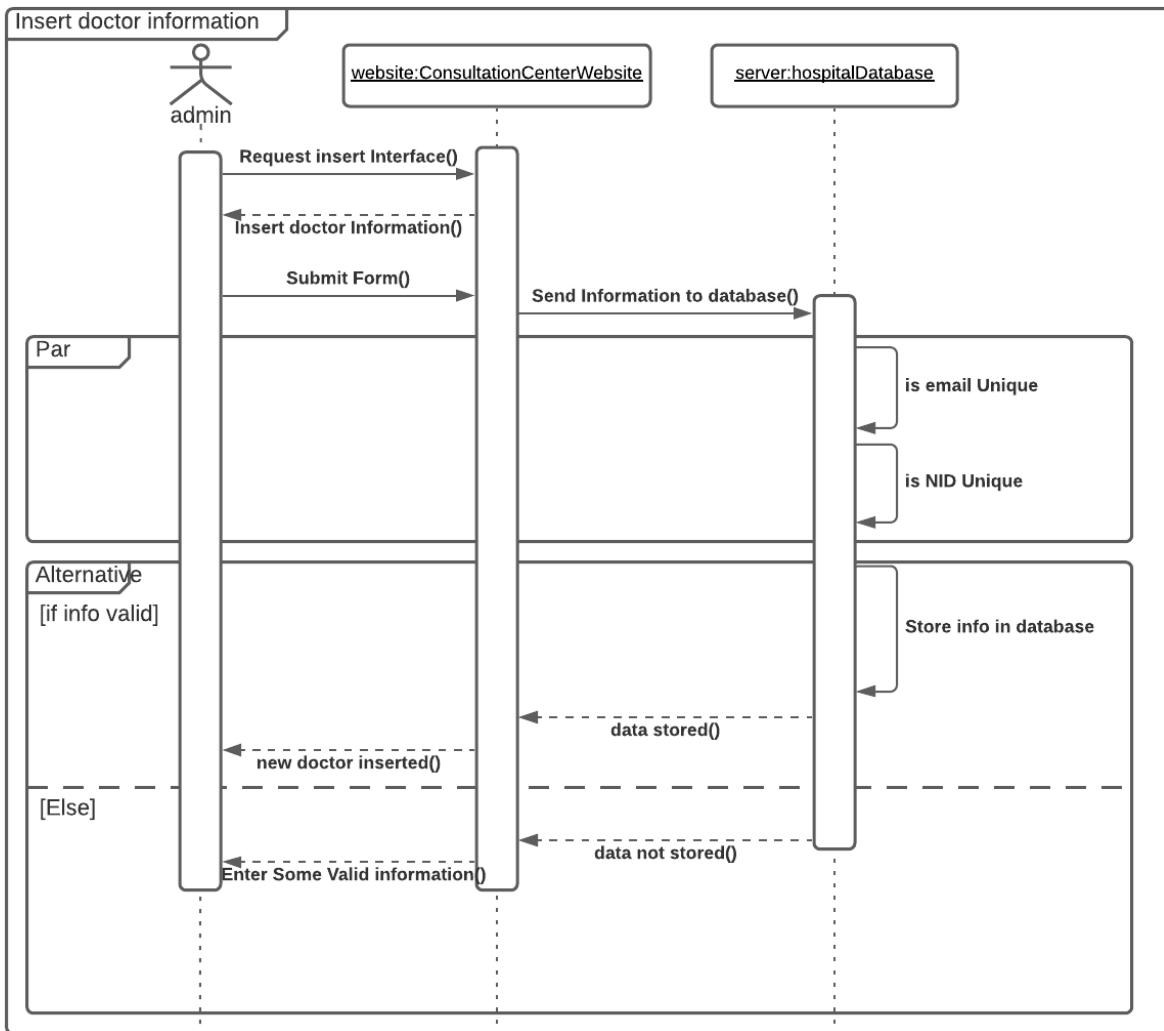


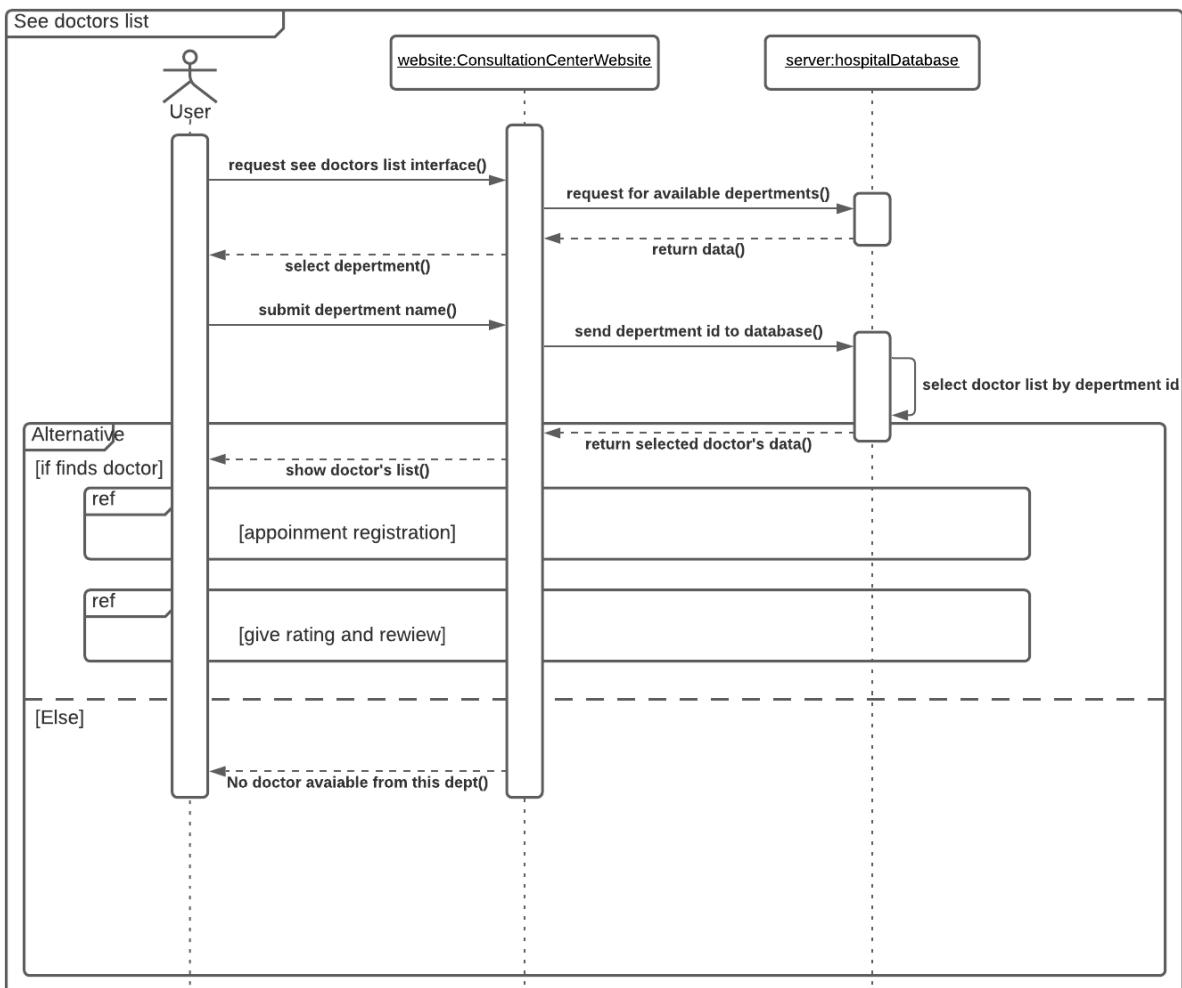


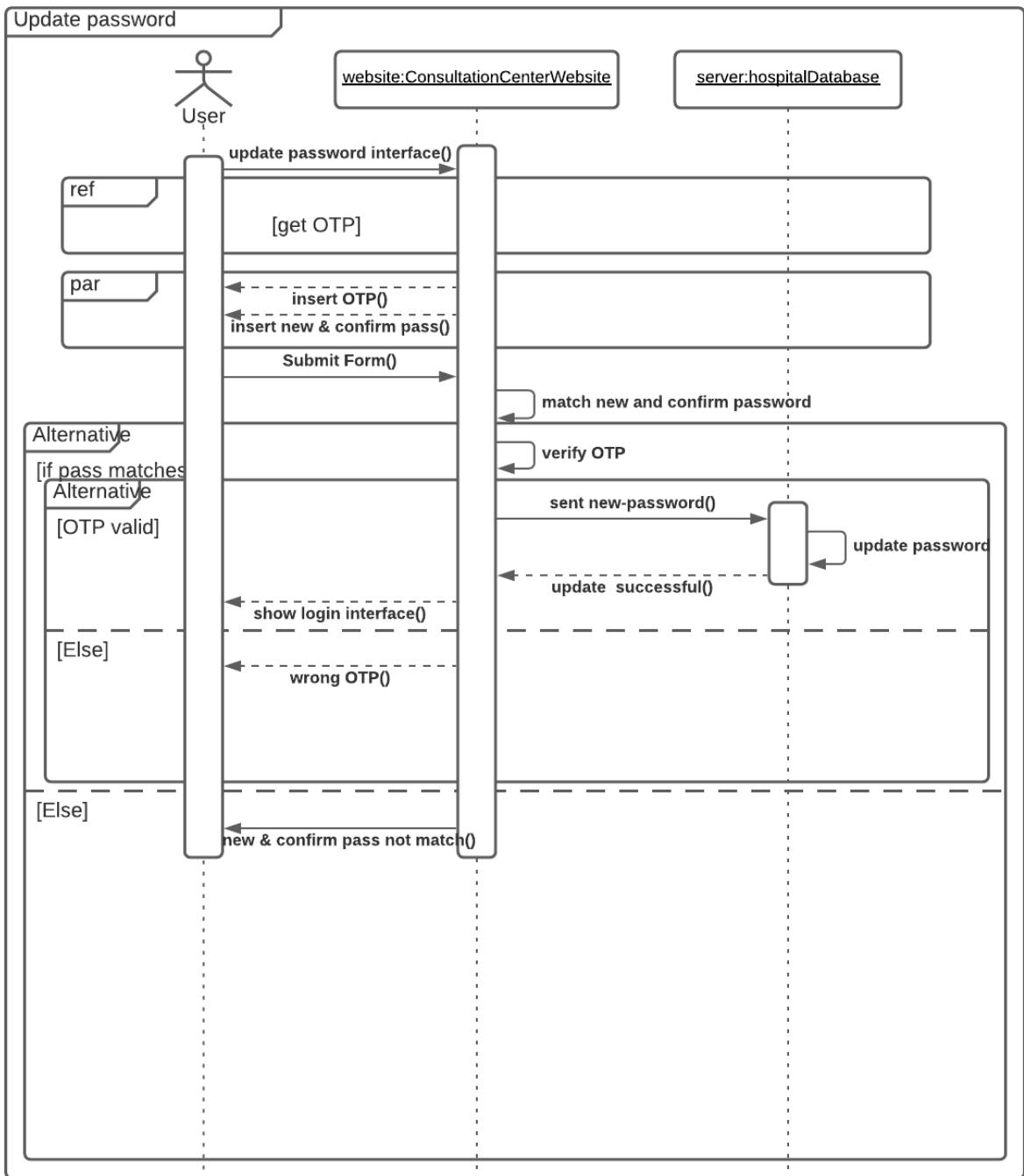


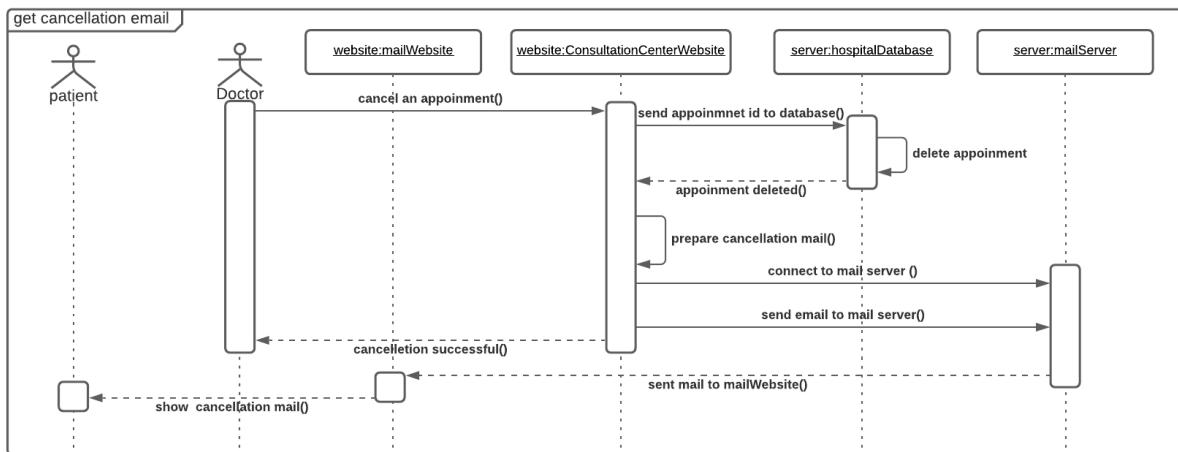
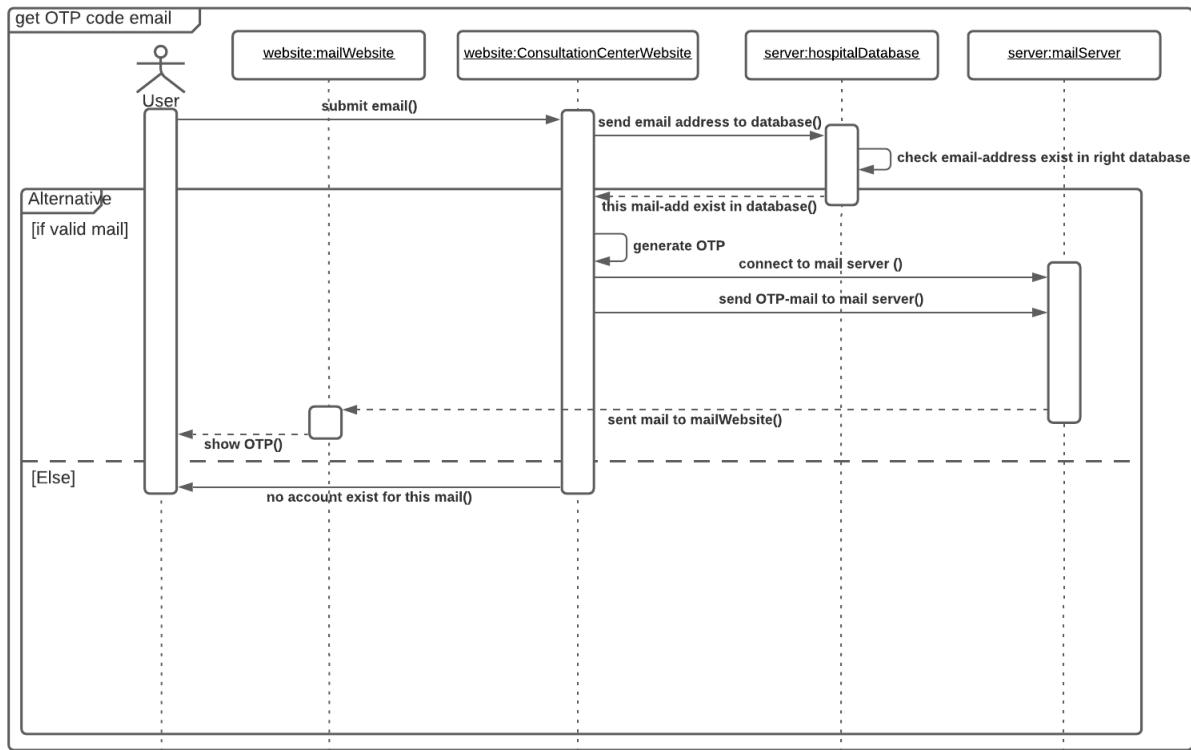


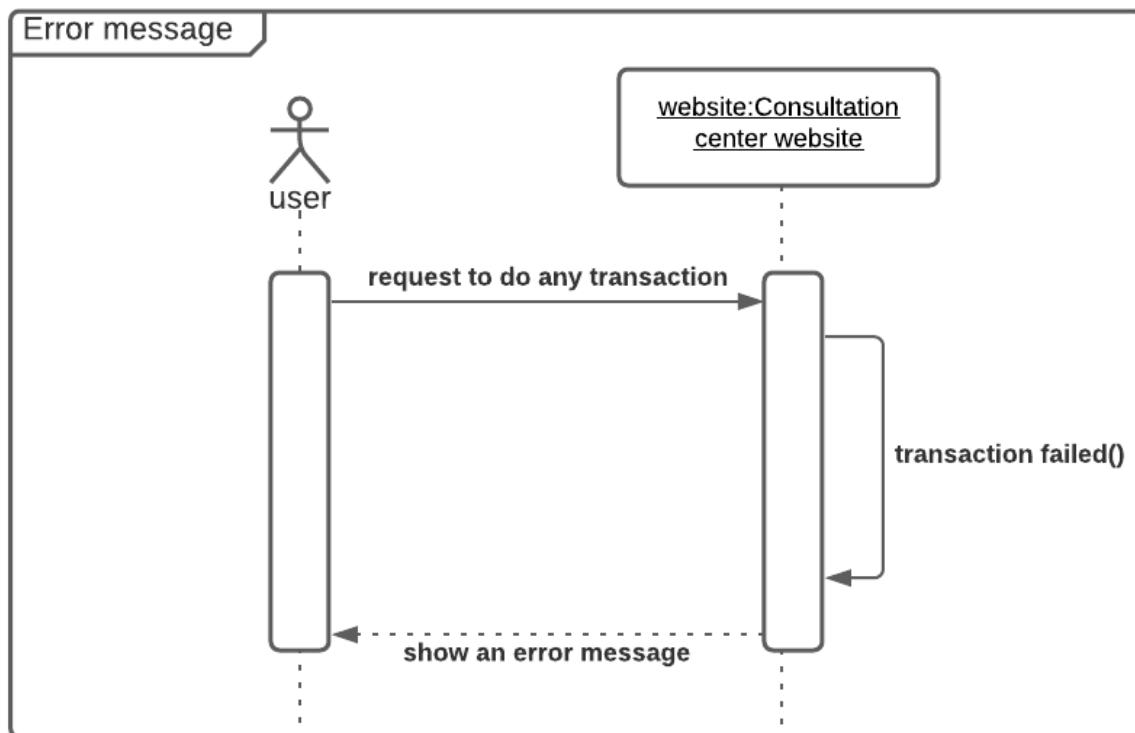
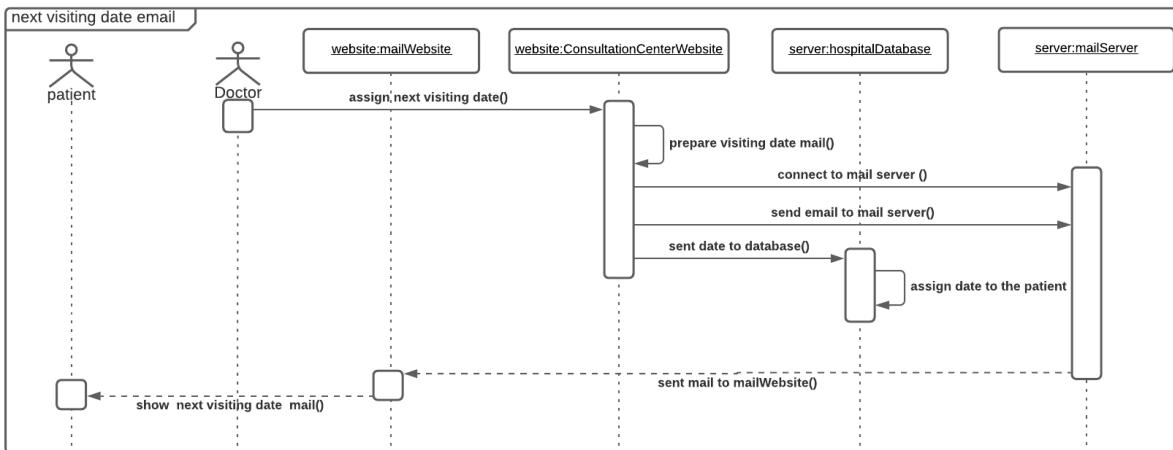


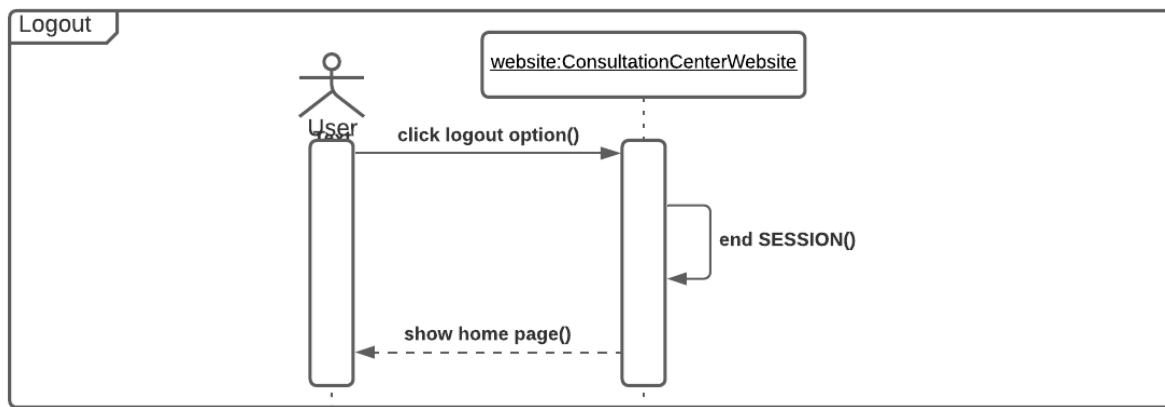
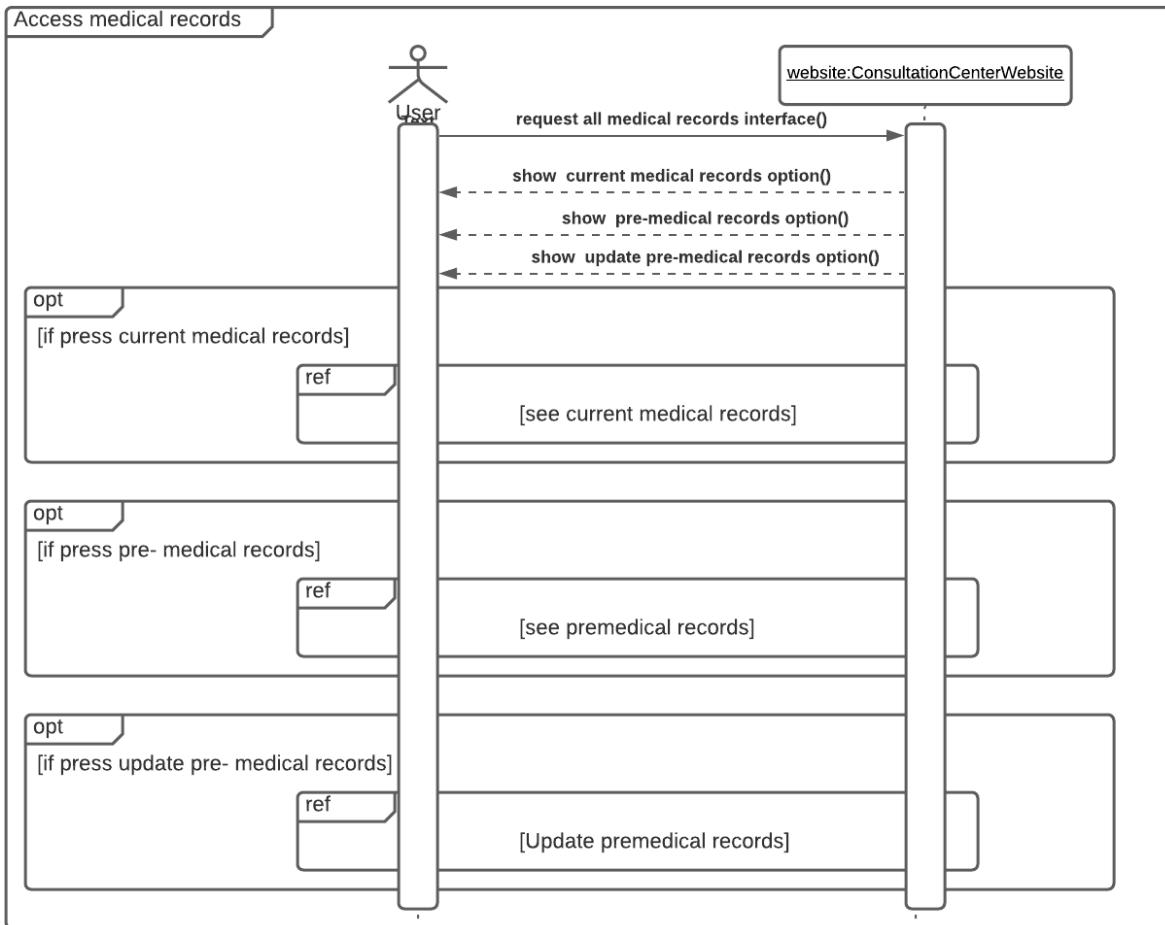




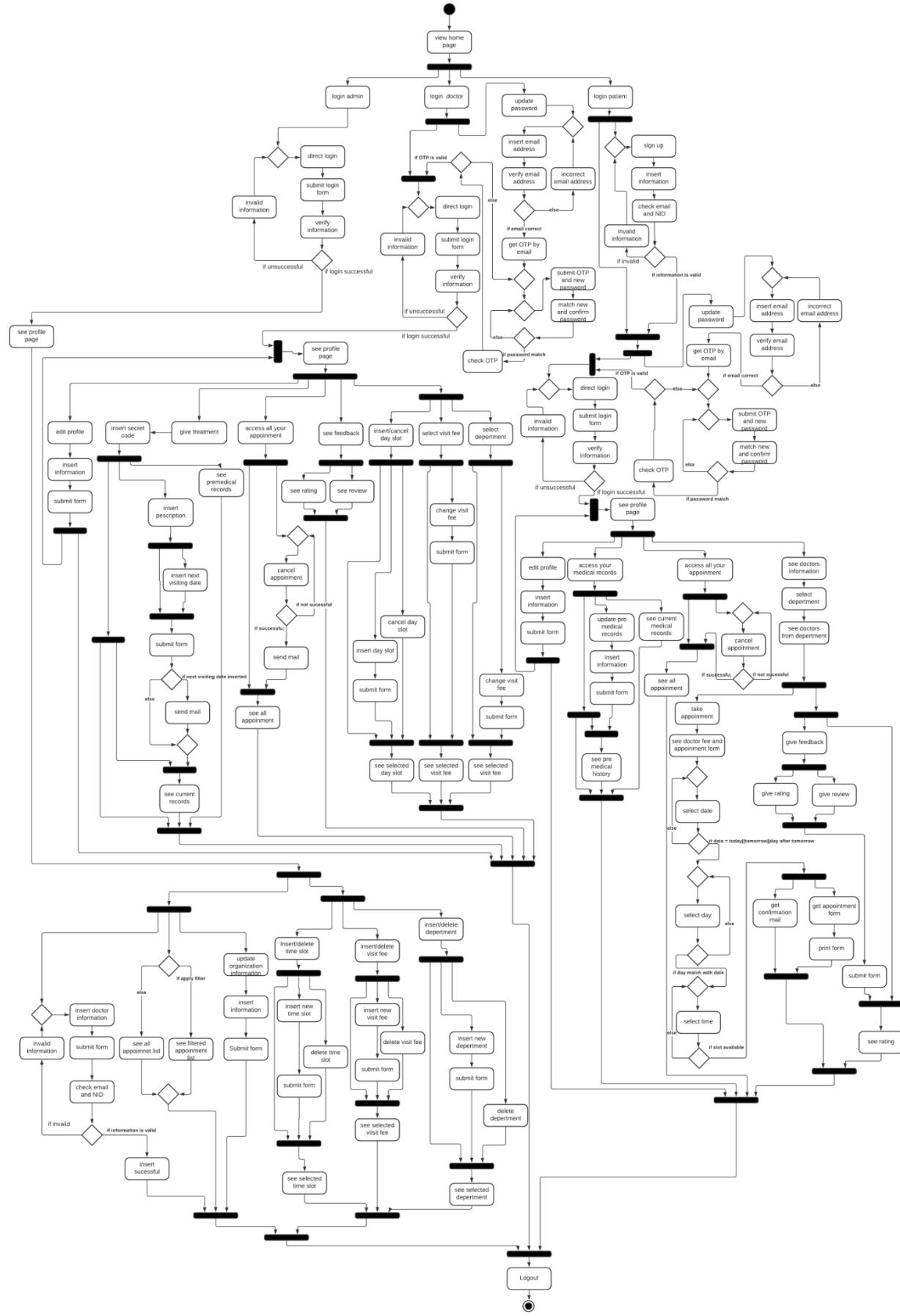








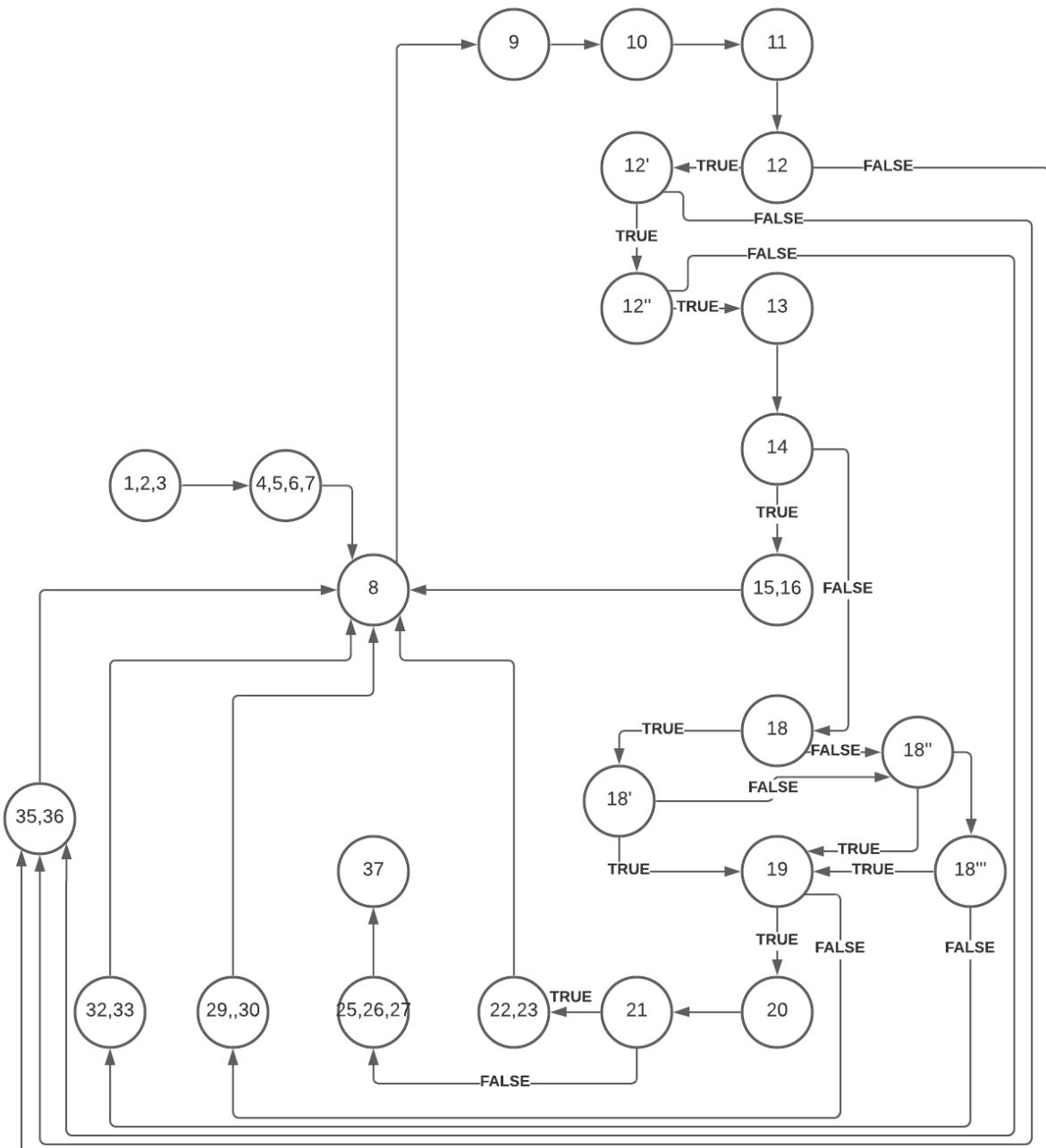
## 9. Activity Diagram:



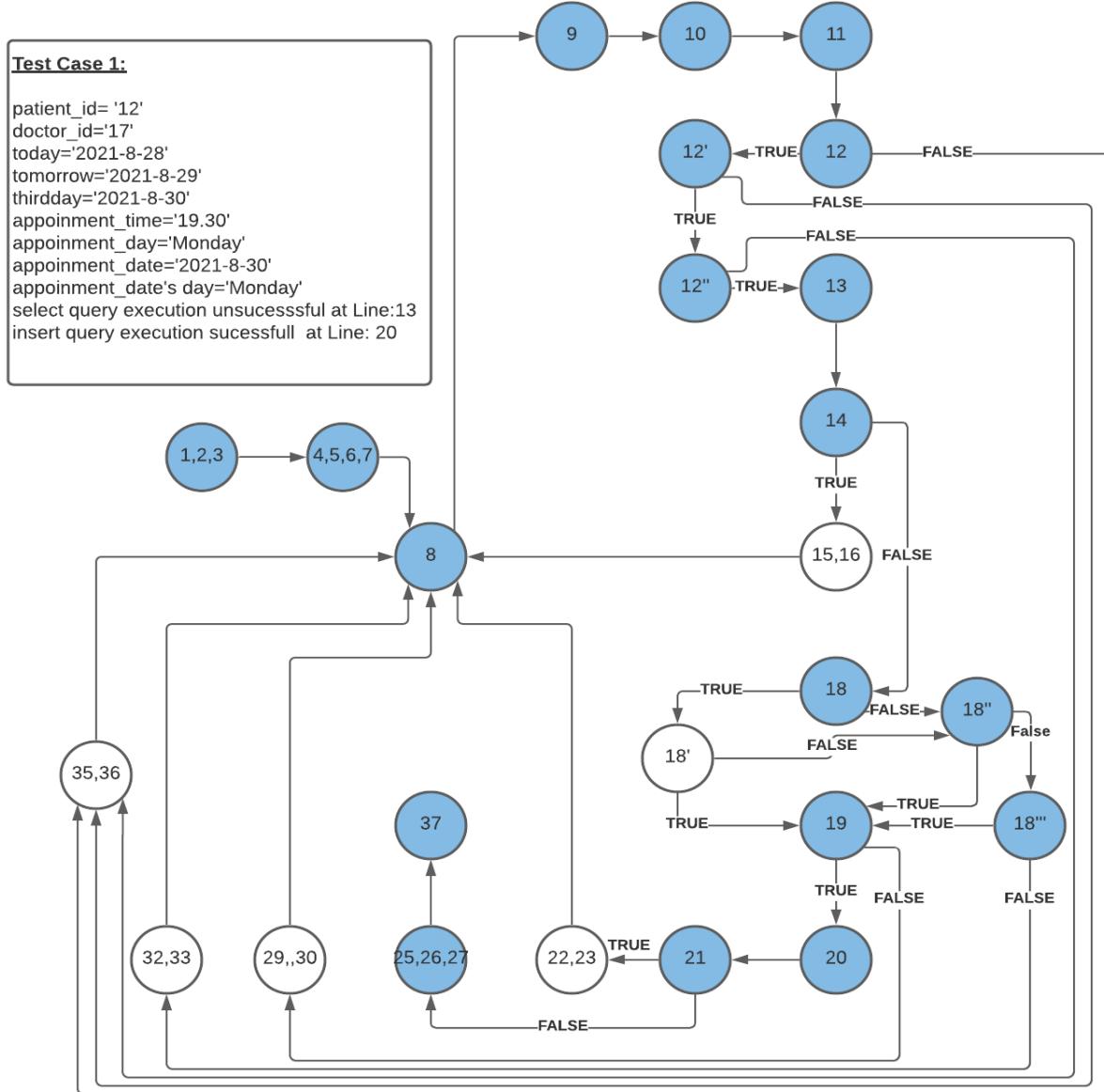
## **10. White Box Testing 1: (Take Appointment)**

```
1. begin
2. patient_id=get(from database)
3. doctor_id=get(from previous page)
4. defult timezone set to dhaka
5. today= today_date()
6. tomorrow=tomorrow_date()
7. thirdday=thirdday_date()
8. appointment_time=input()
9. appointment_day=input()
10. appointment_date=input()
11. secret_code=random_number
12. if( !empty(appointment_time) ) && !empty(appointment_date) &&
   !empty(appoiment_day))
13. result = query( select * from appointment where doctor_id = doctor_id AND date
   = appointment_date AND time = appointment_time)
14. if(mysql_num_rows(result) > 0)
15.   print: This Slot already Taken, Try Another
16.   goto line:8
17. else
18.   if( (appointment_date === today && appointment_time >= current_time) ||
      appointment_date === tomorrow || appoinment_date === thirdday)
19.     if(appointment_day === appoinment_date's day)
20.       result = query (insert into appointment ( time, date, secret_code, doctor_id,
      patient_id, day ) values ( appointment_time, appoinment_date, secret_code,
      doctor_id, patient_id, appoinment_day))
21.       if (!$result)
22.         print:Please Try Again
23.         goto line:8
24.       else
25.         appointment is confirm
26.         sent appoinment confirmation email to user
27.         goto line:37
28.       else
29.         print: Day does not Match with date
30.         goto line:8
31.     else
32.       print: You Can not Take Appoinment for This day and TimeSlot
33.       goto line:8
34.   else
35.     print:Please Enter Some Valid Information
36.     goto line:8
37. end
```

### Control Flow Graph:



## Statement Coverage:

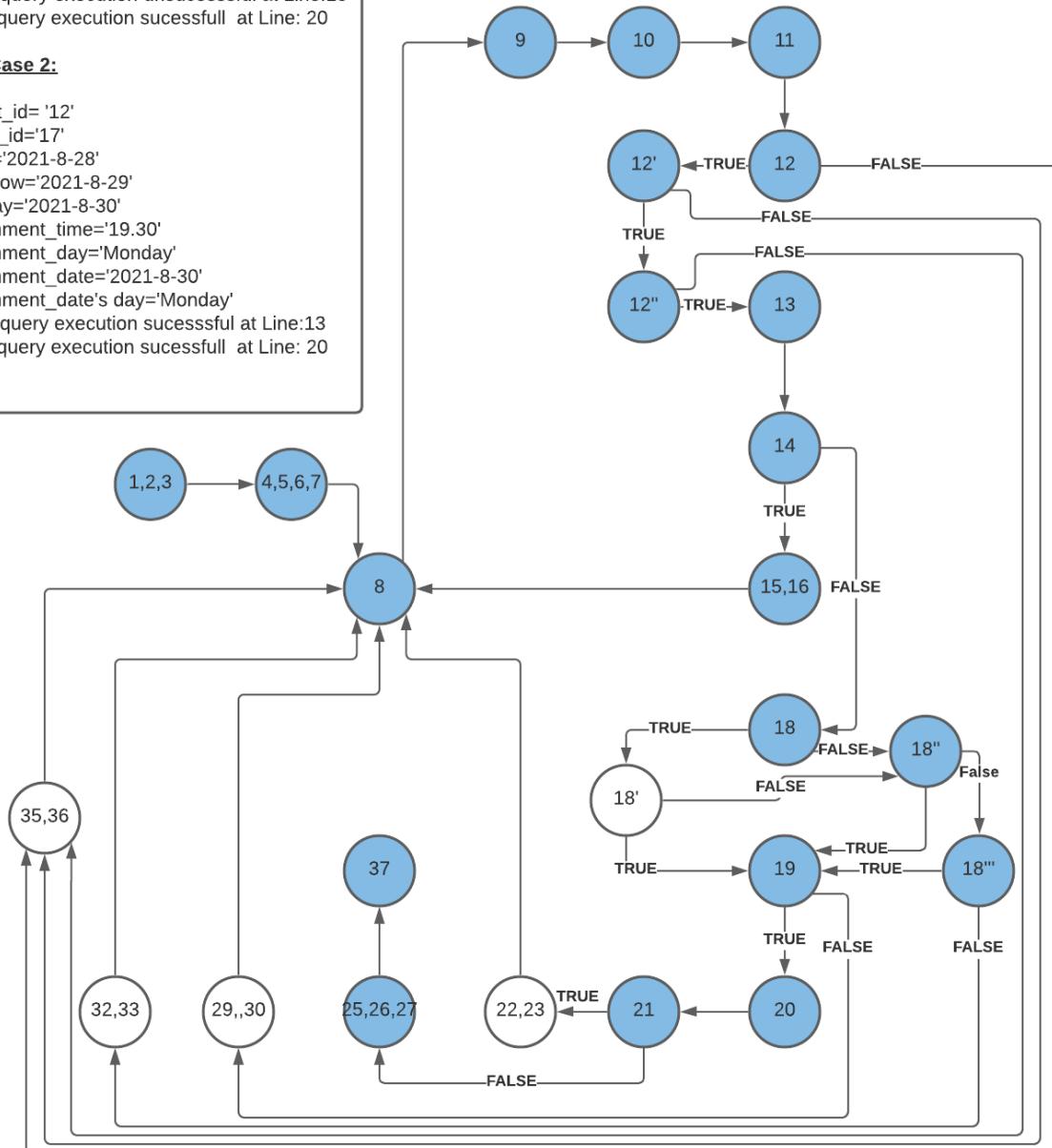


**Test Case 1:**

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```



### Test Case 1:

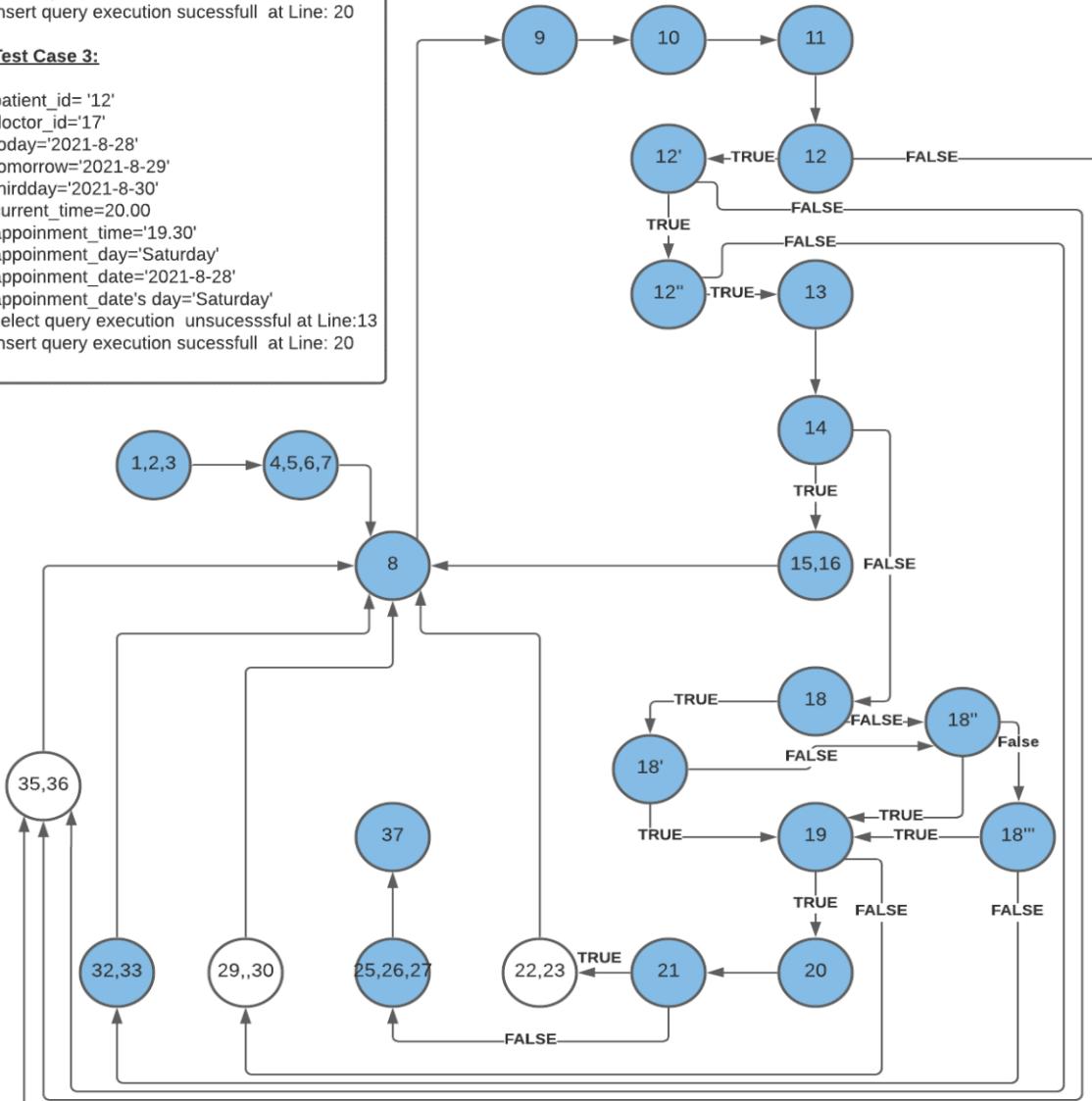
```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccessful at Line:13  
insert query execution sucessfull at Line: 20
```

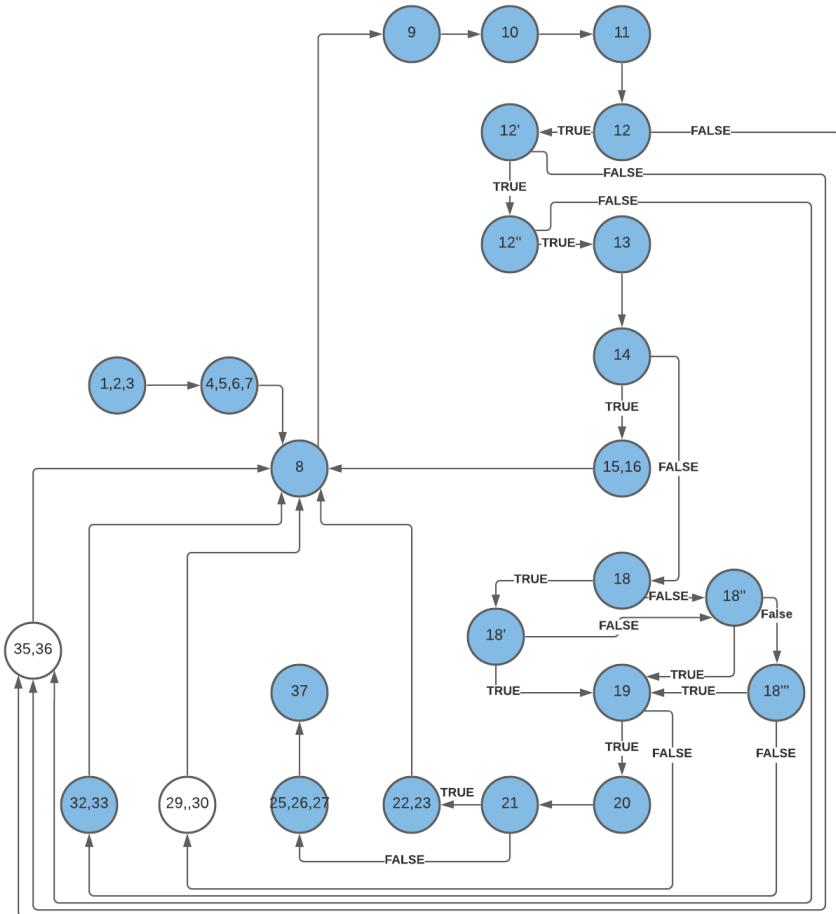
## Test Case 2:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

### Test Case 3:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```





#### Test Case 1:

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsuccesfull at Line:13
insert query execution sucessfull at Line: 20

```

#### Test Case 2:

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution sucessfull at Line:13
insert query execution sucessfull at Line: 20

```

#### Test Case 3:

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Saturday'
appointment_date='2021-8-28'
appointment_date's day='Saturday'
select query execution unsuccesfull at Line:13
insert query execution sucessfull at Line: 20

```

#### Test Case 4:

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsuccesfull at Line:13
insert query execution unsuccesfull at Line: 20

```

**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessfull at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

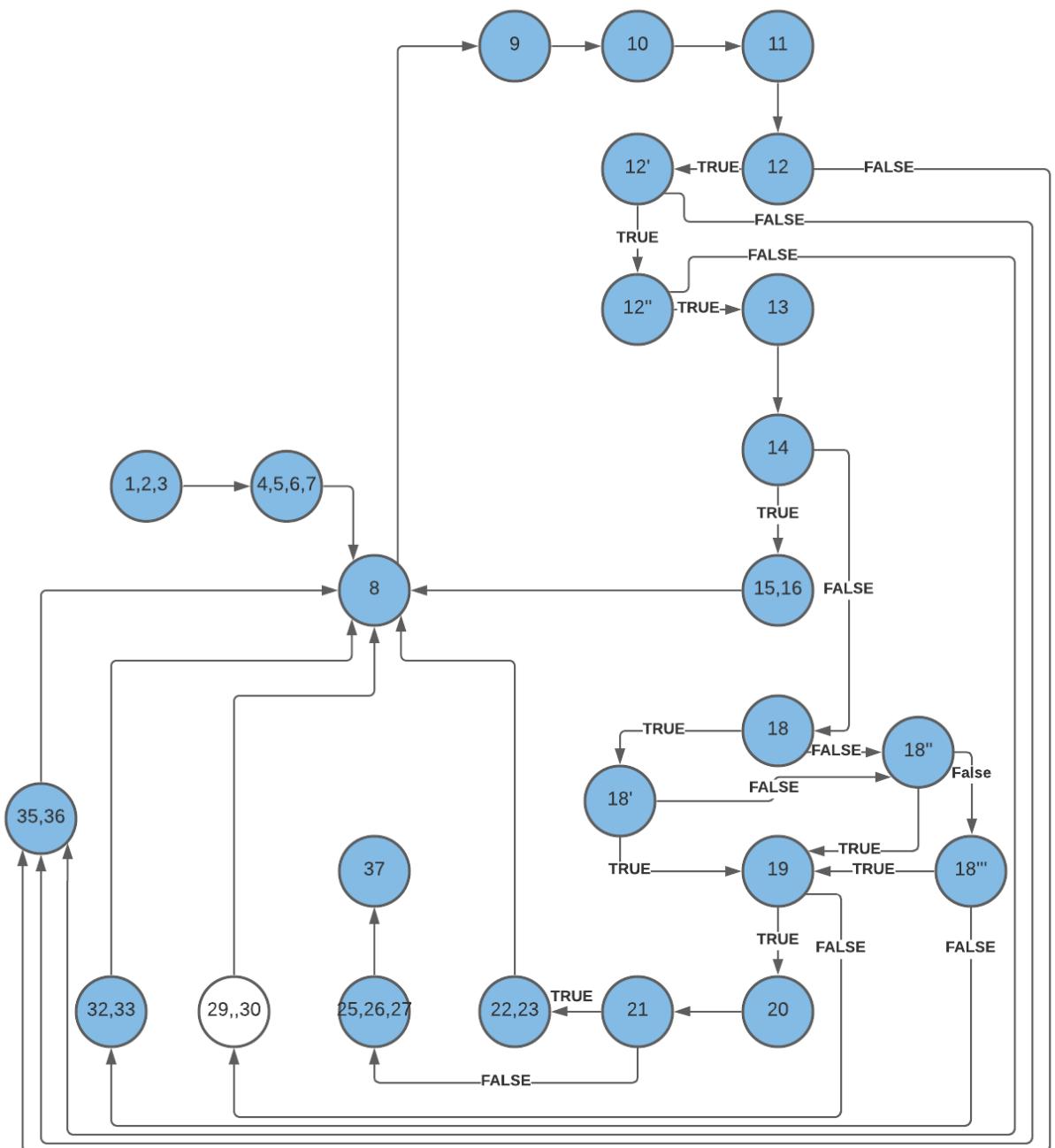
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution unsucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

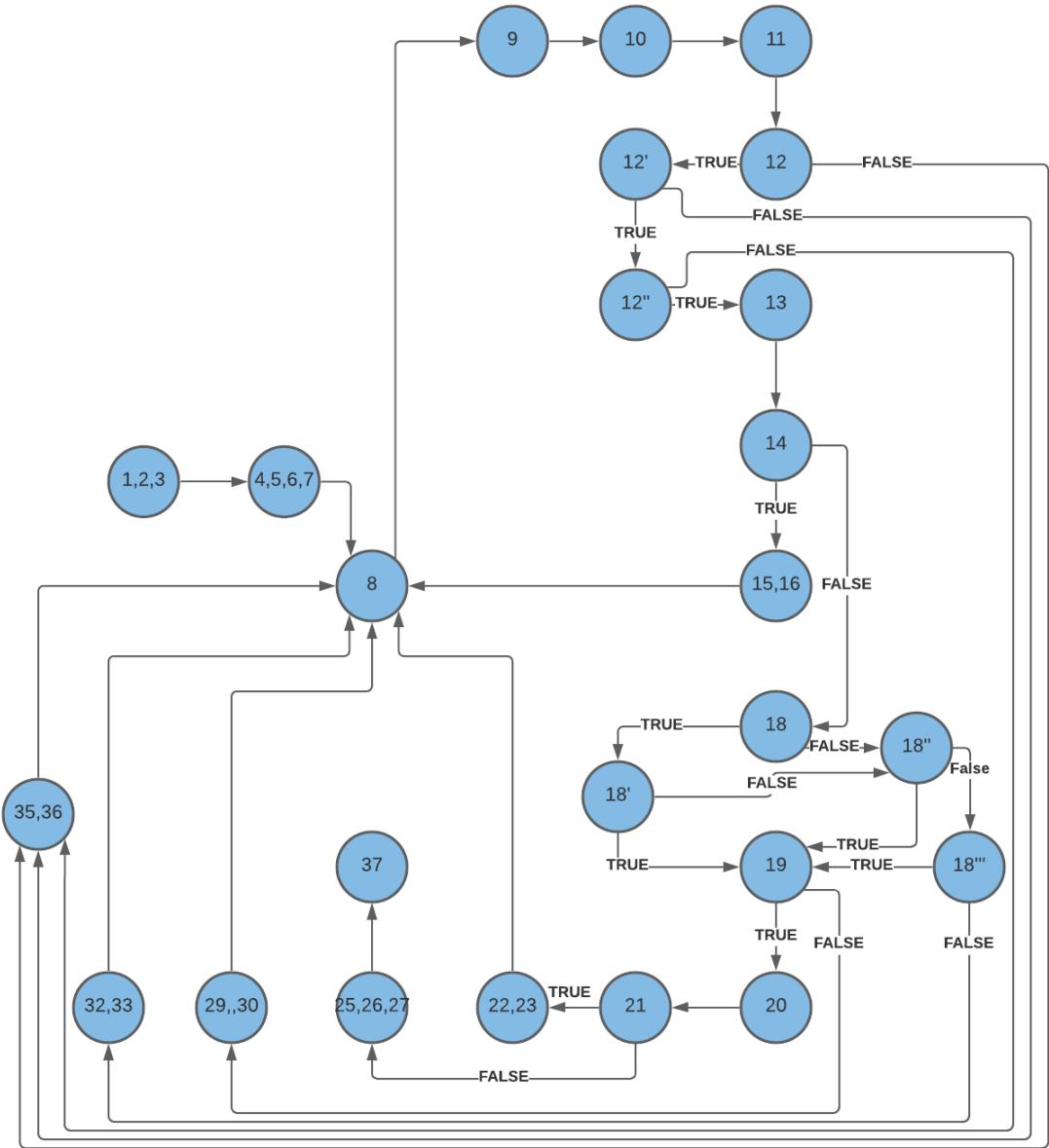
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution unsuccesful at Line: 20
```

**Test Case 5:**

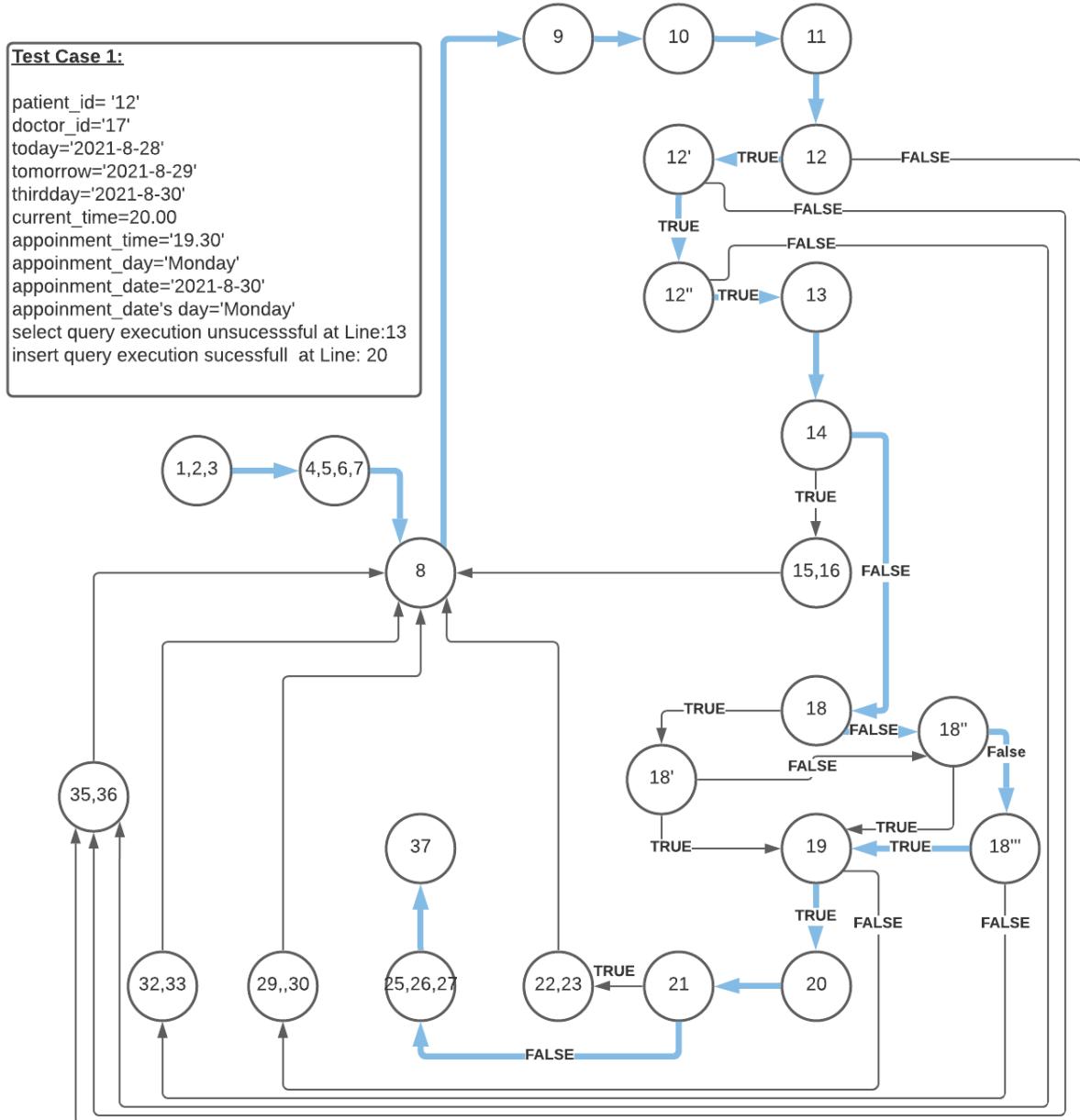
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Sunday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```



## Edge Coverage:

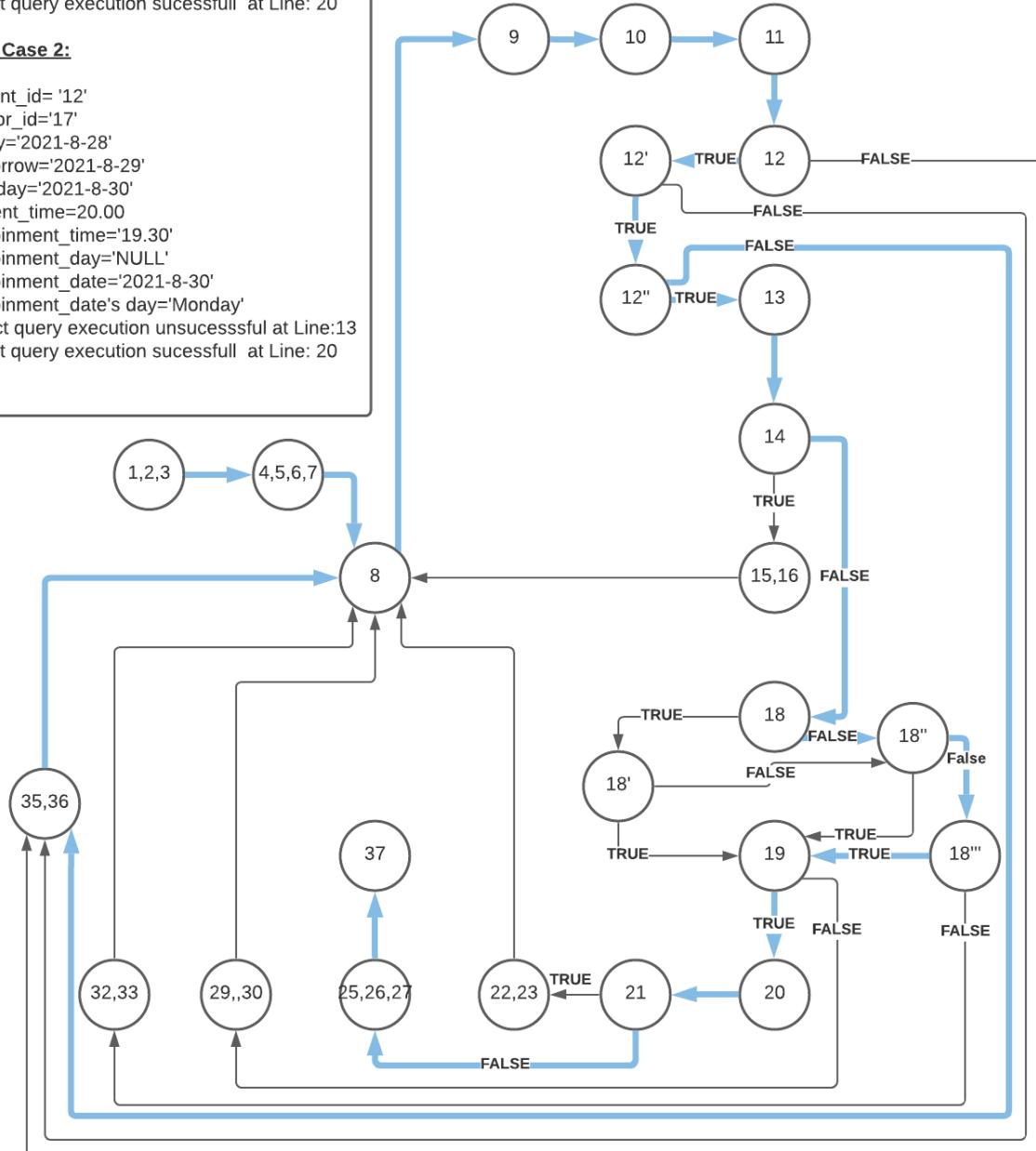


### Test Case 1:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```

## Test Case 2:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

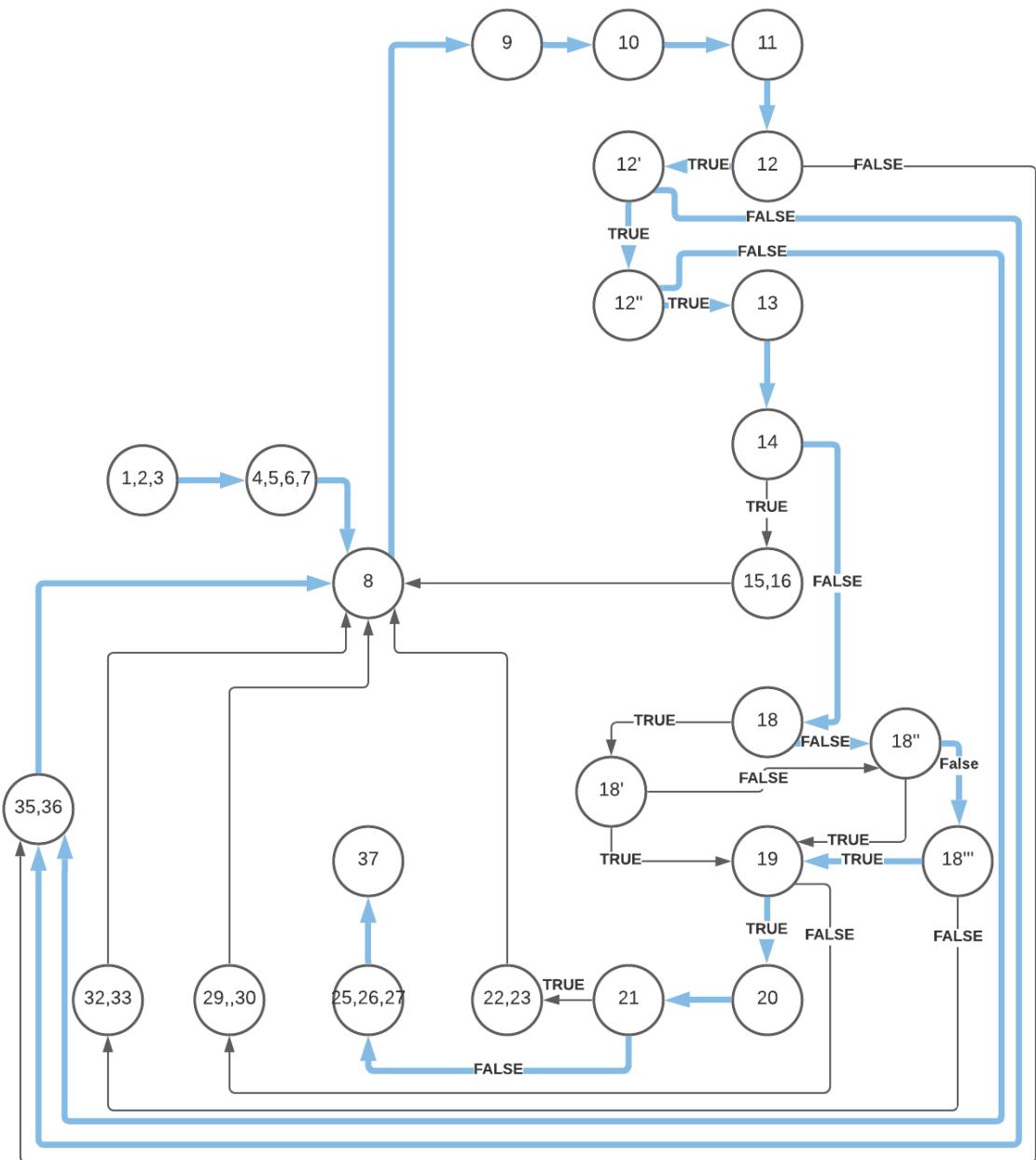
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

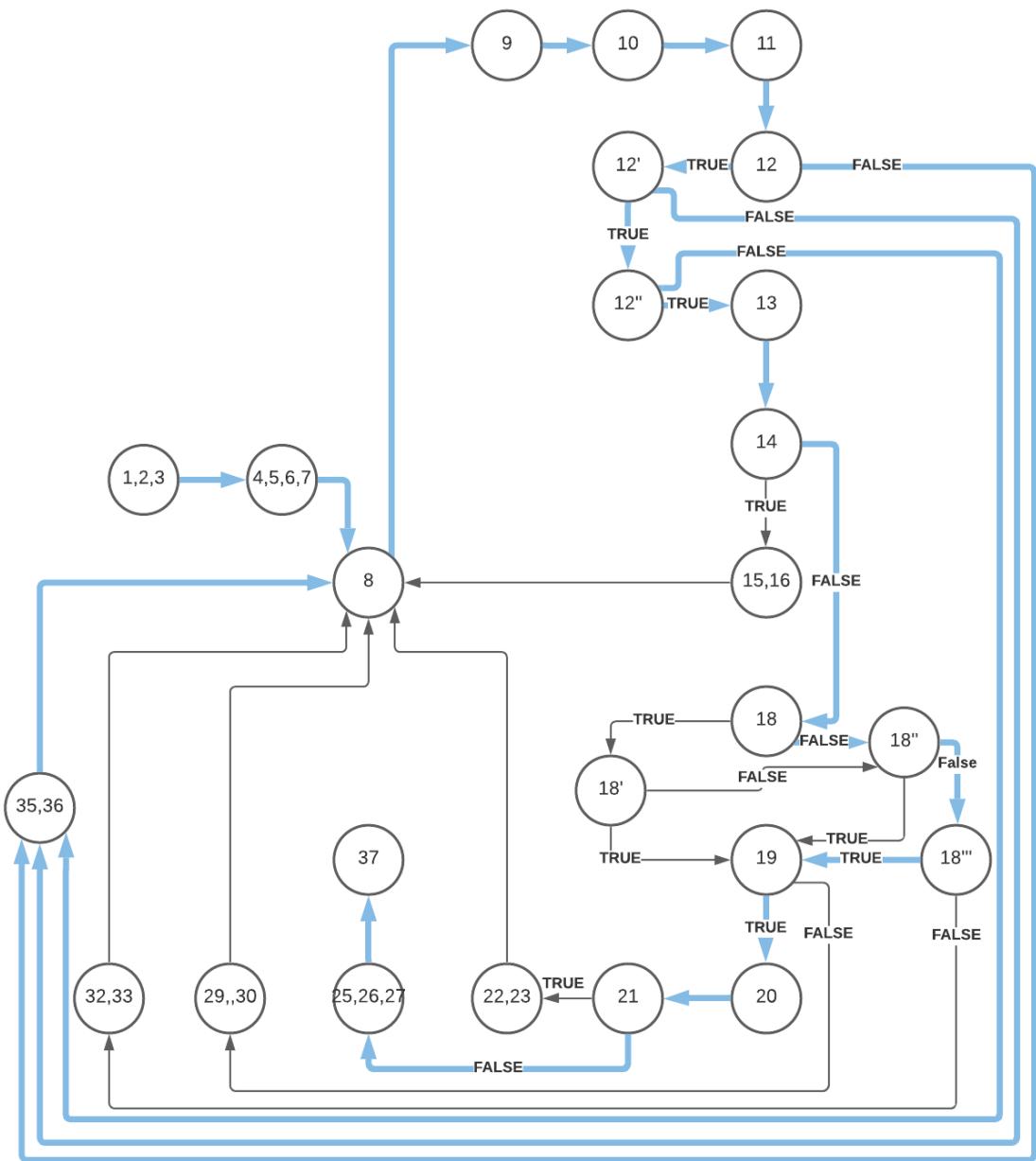
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

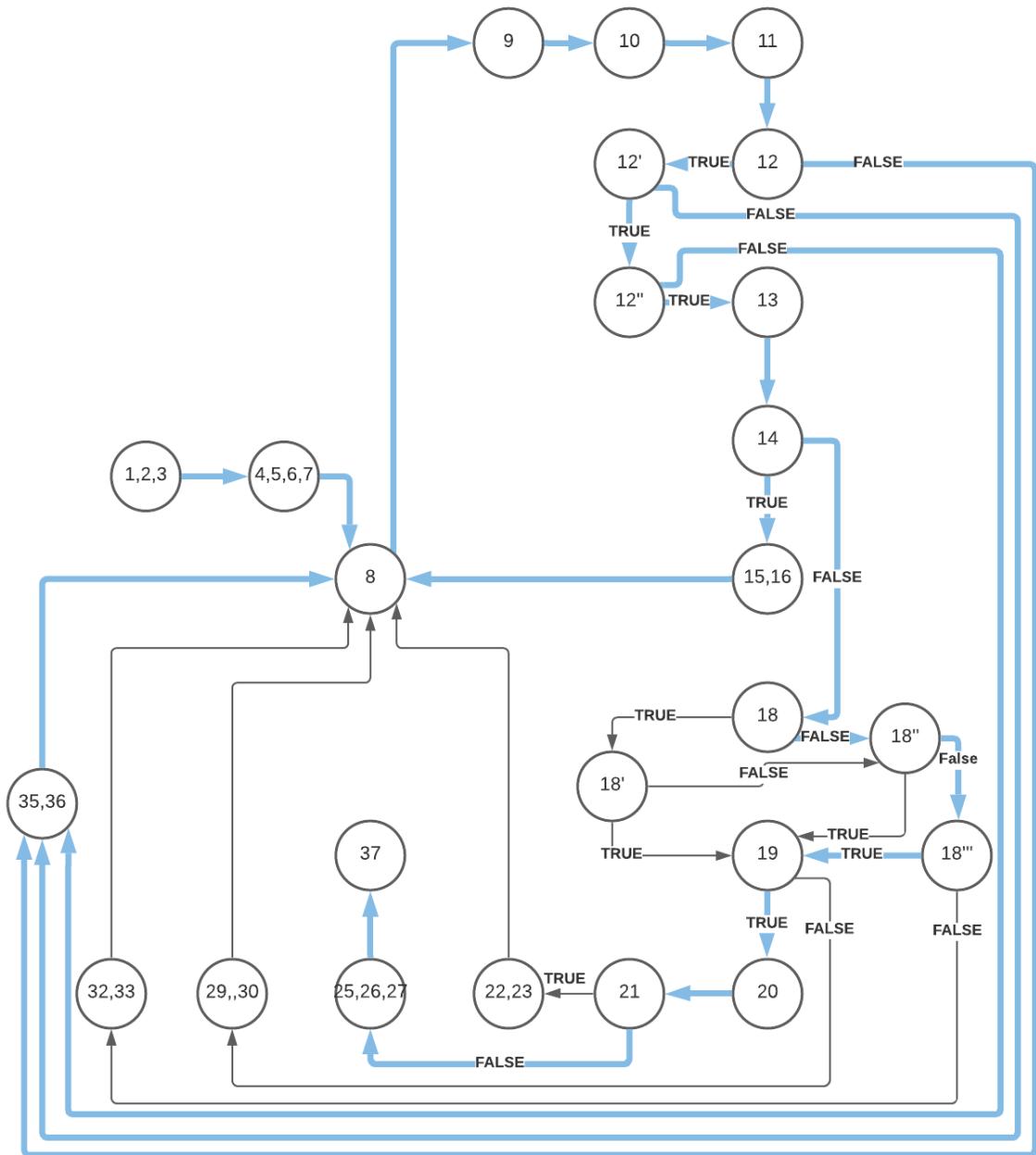
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

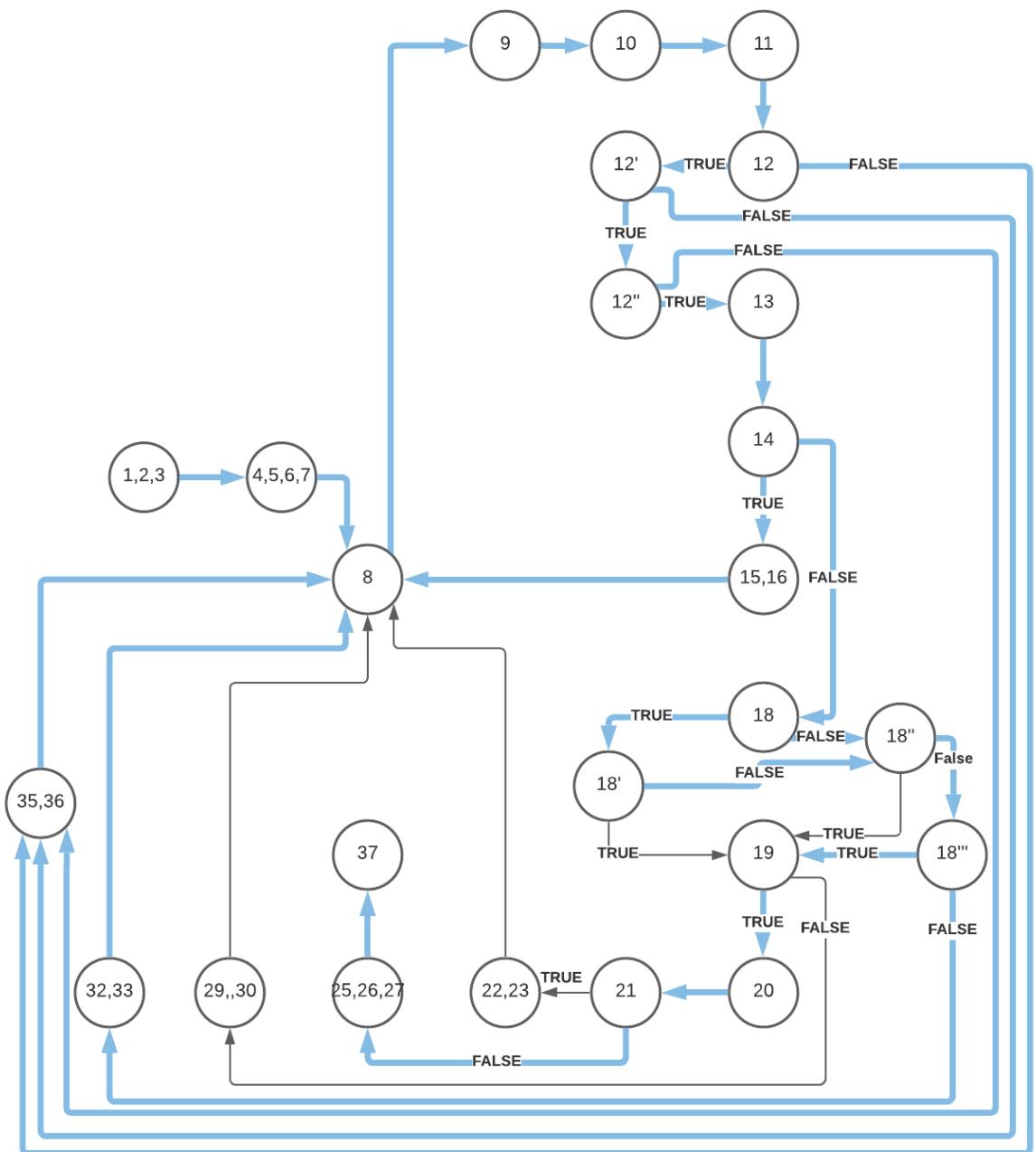
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

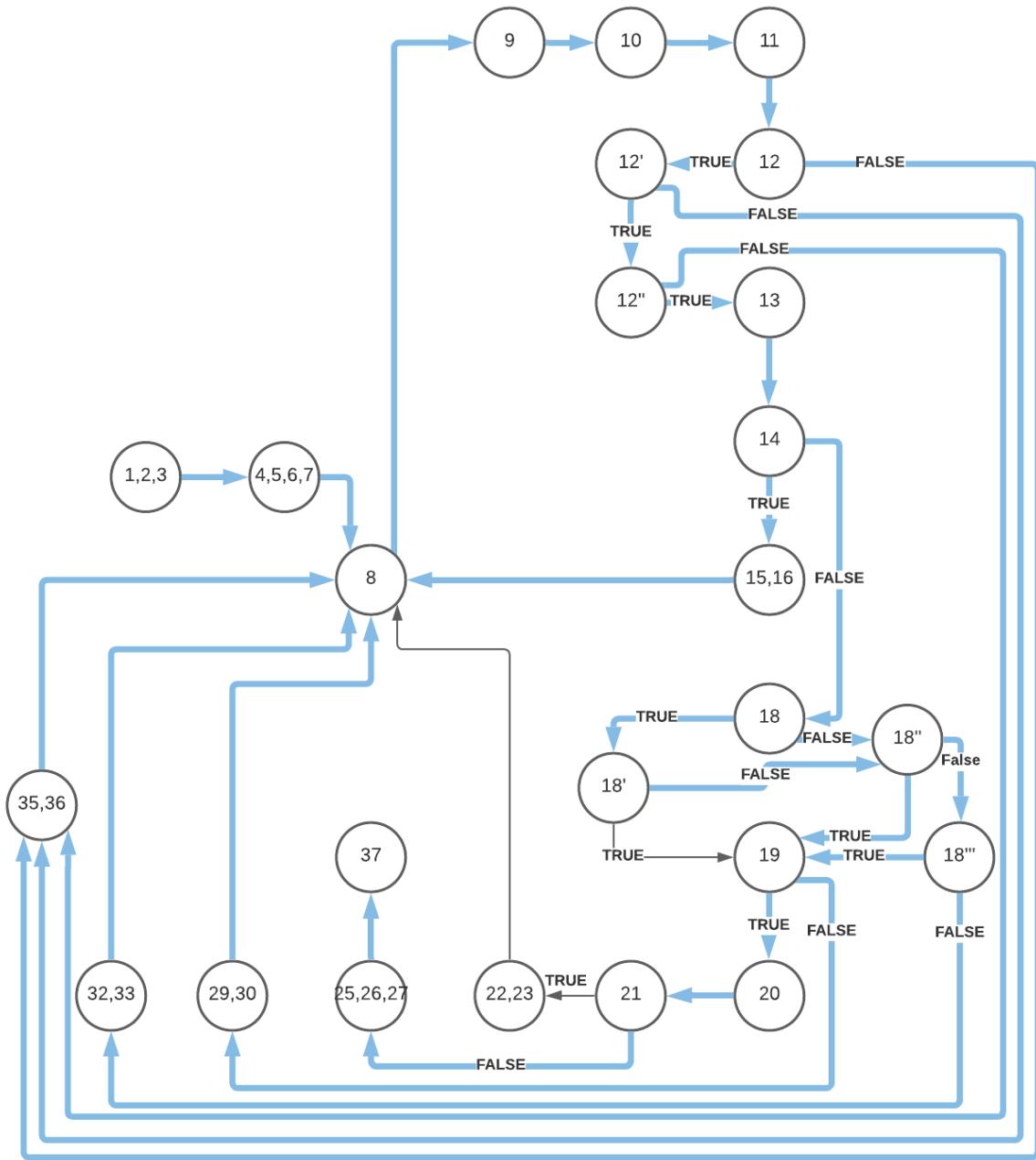
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 7:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

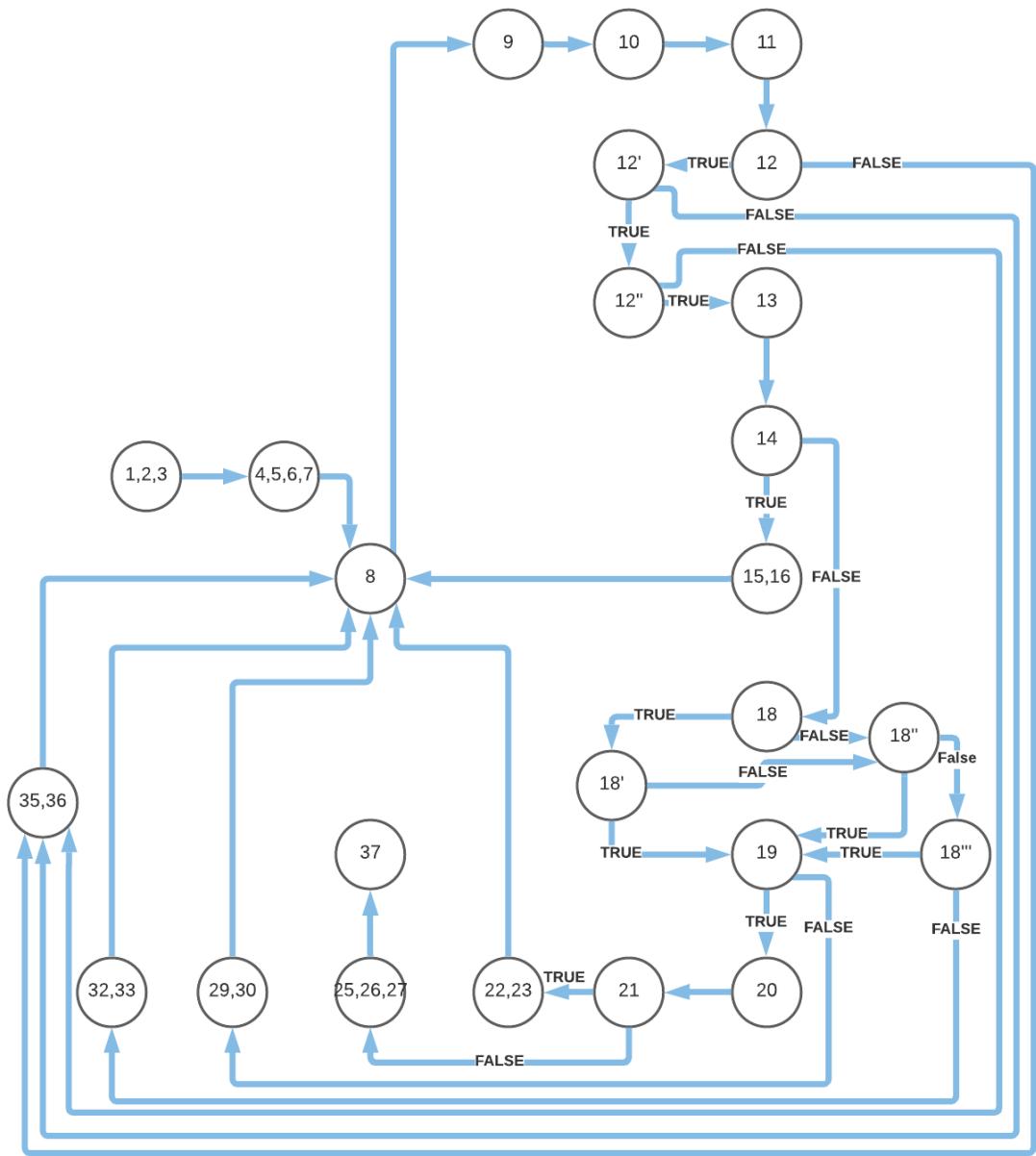
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 7:**

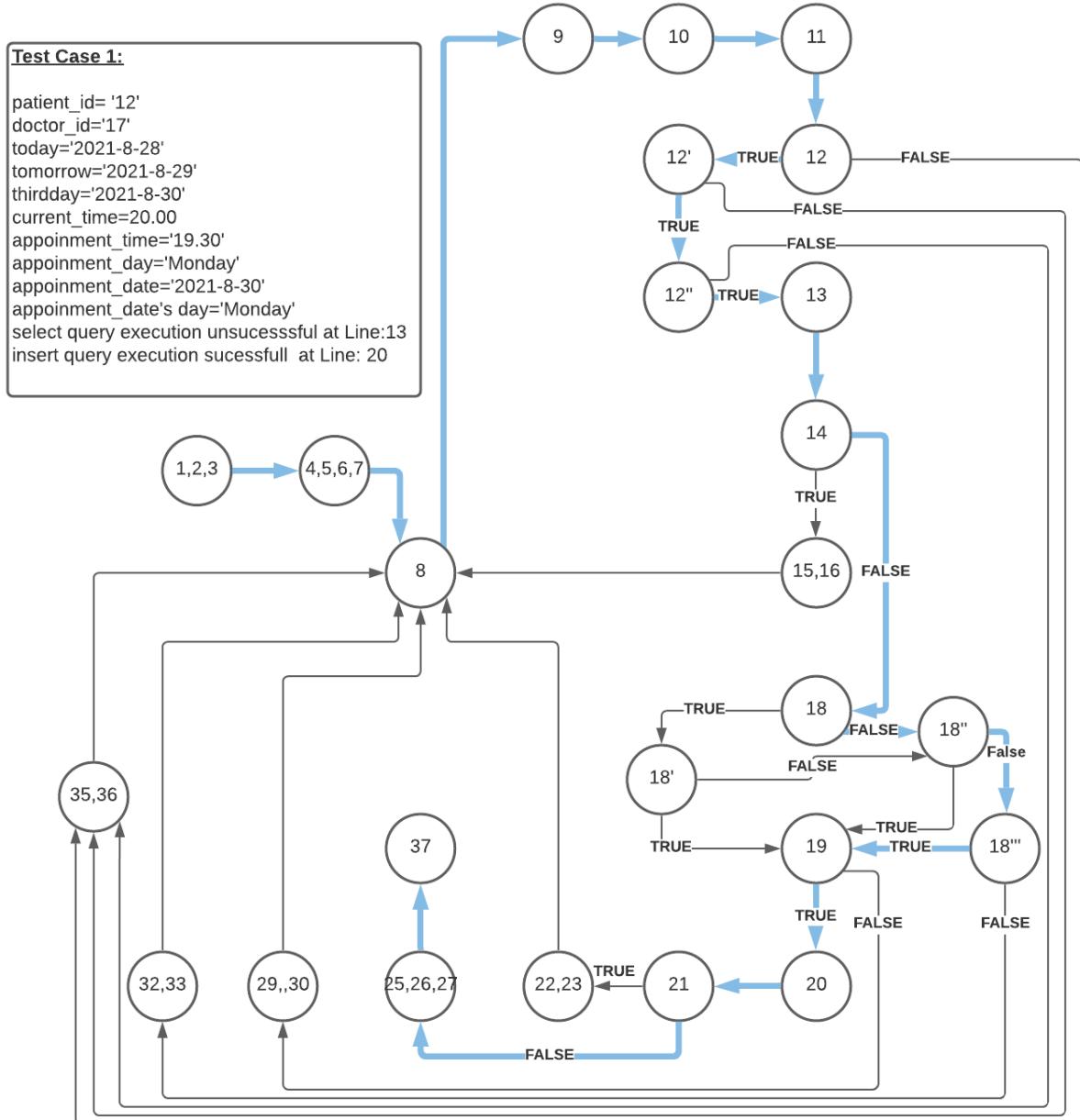
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 8:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='20.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution unsuccesfull at Line: 20
```



## **Path Coverage:**

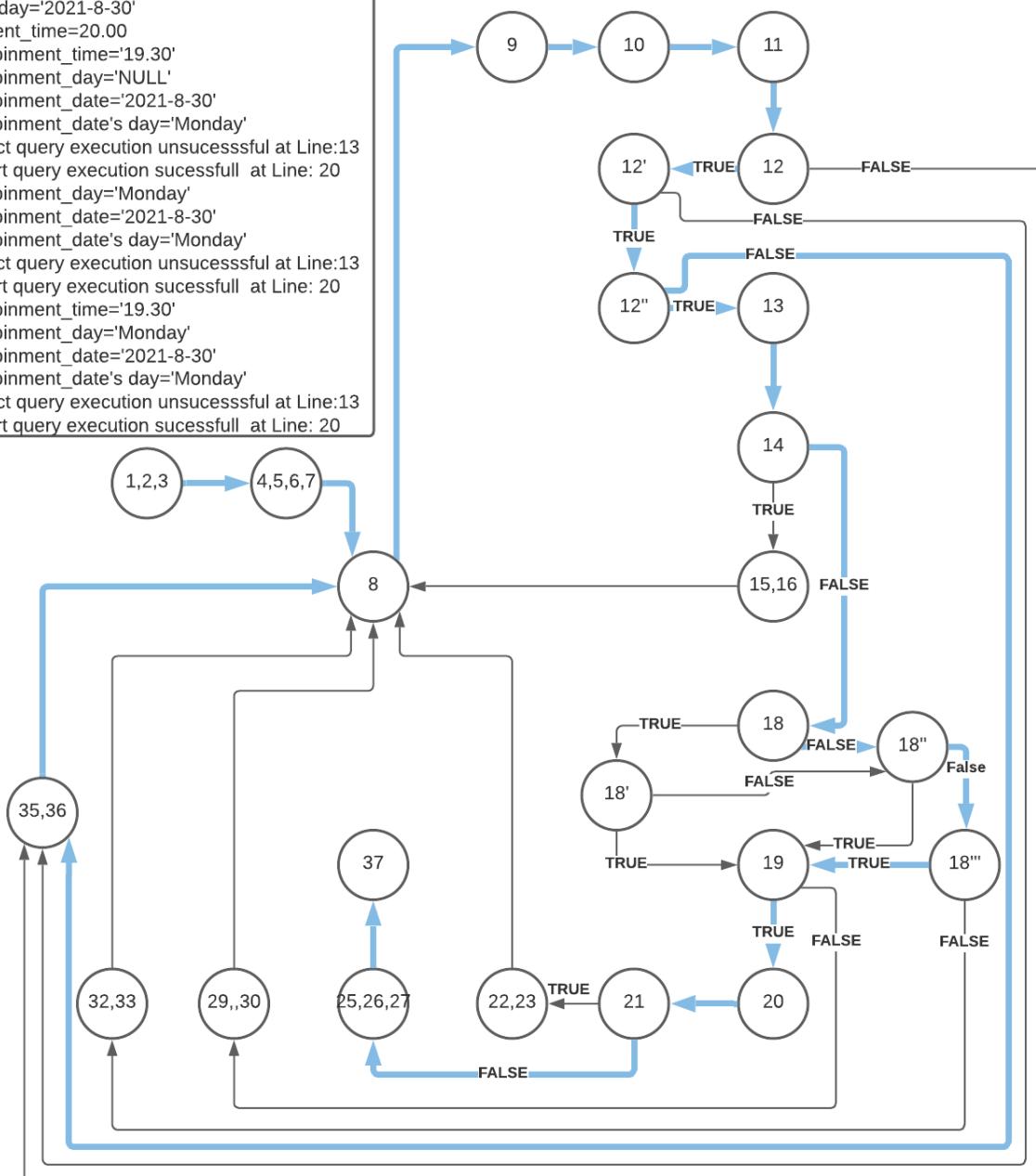


Test Case 1:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```

Test Case 2:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

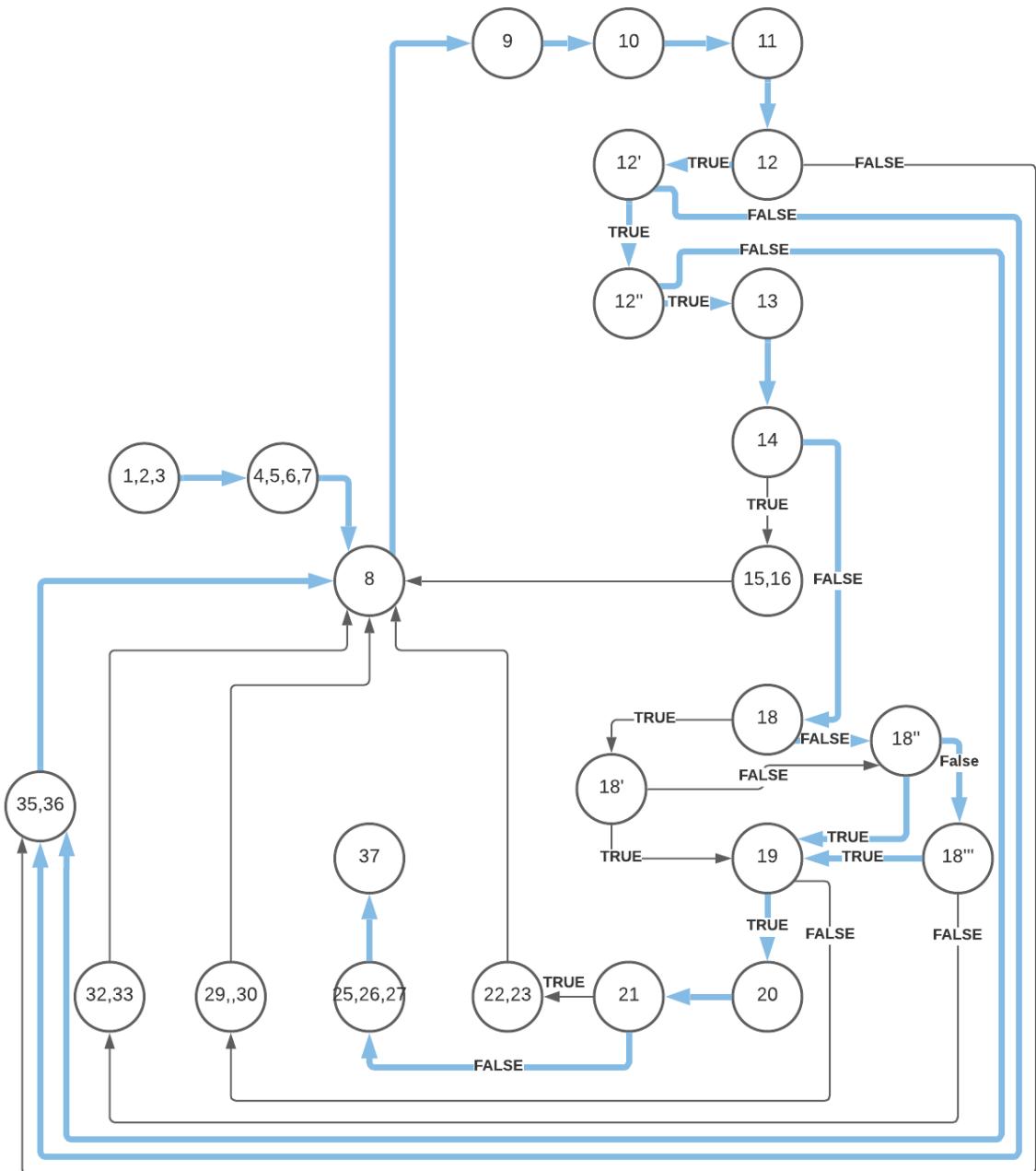
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Sunday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

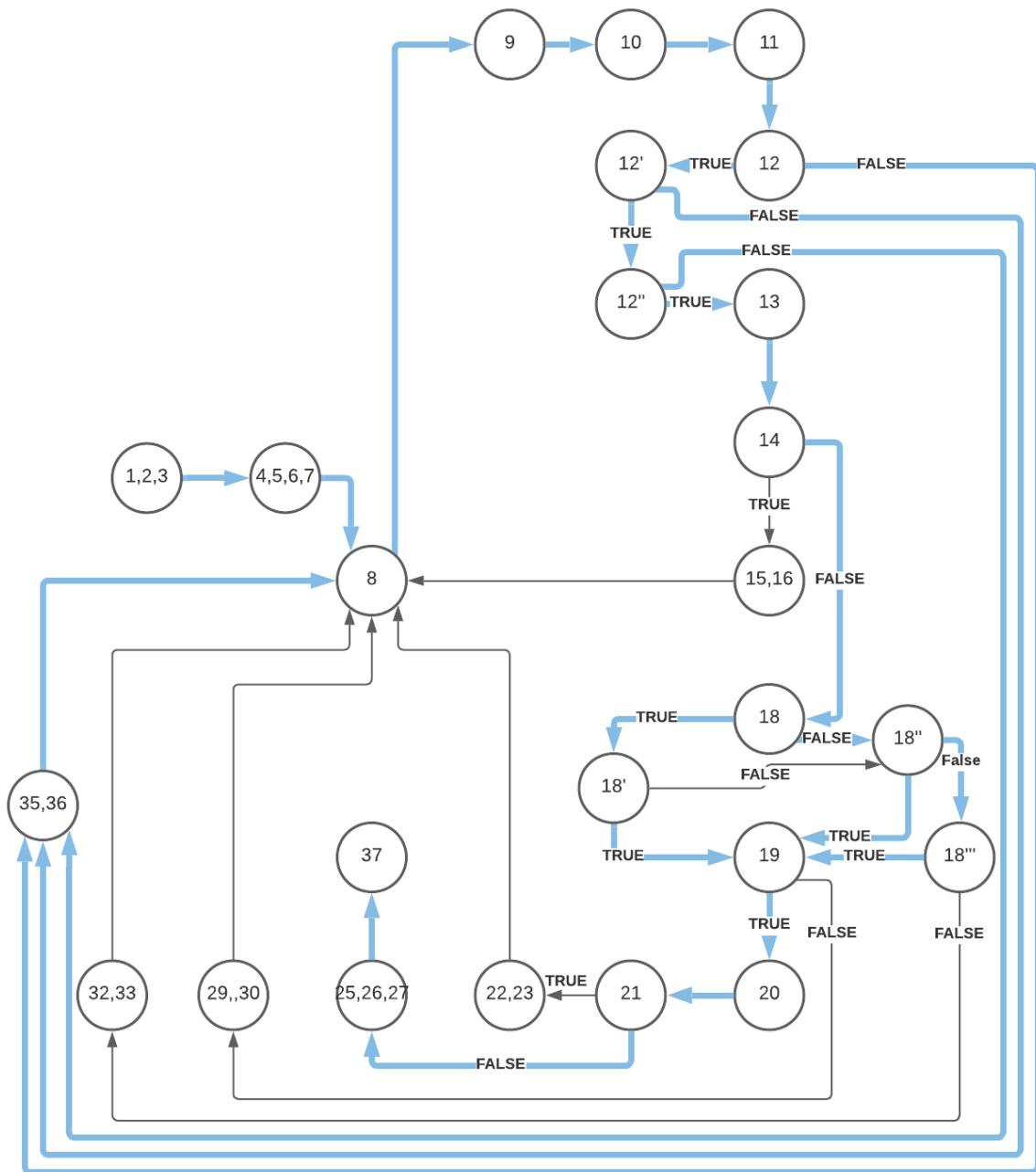
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Sunday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='20.30'  
appointment_day='Stursday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

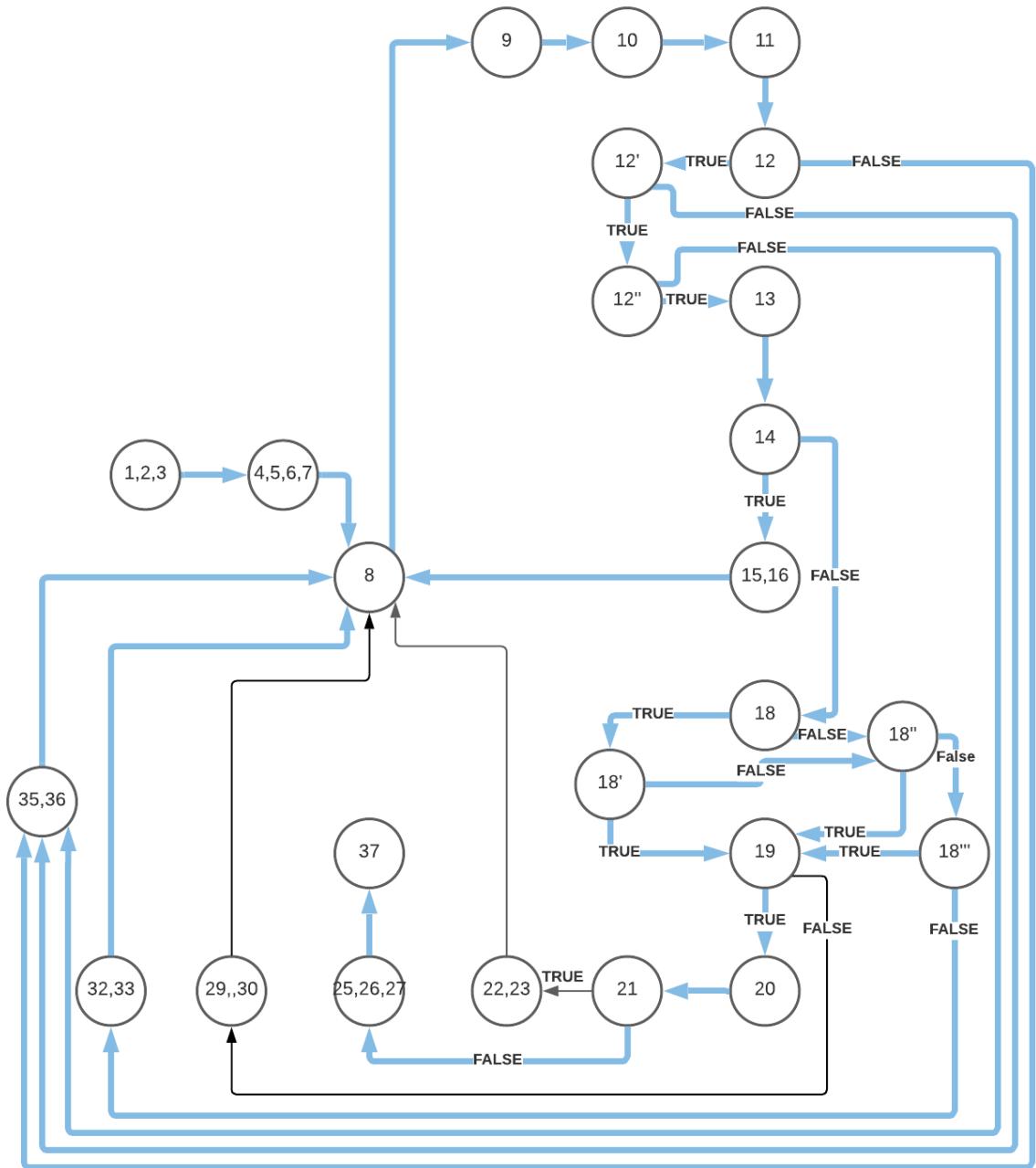
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Sunday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='20.30'  
appointment_day='Stursday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='20.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20

```

**Test Case 2:**

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='NULL'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20

```

**Test Case 3:**

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='NULL'
appointment_date='NULL'
appointment_date's day='Monday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='19.30'
appointment_day='Sunday'
appointment_date='2021-8-29'
appointment_date's day='Sunday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20

```

**Test Case 4:**

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='NULL'
appointment_day='NULL'
appointment_date='NULL'
appointment_date's day='Monday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='20.30'
appointment_day='Stursday'
appointment_date='2021-8-28'
appointment_date's day='Saturday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20

```

**Test Case 5:**

```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution sucessfull at Line:13
insert query execution sucessfull at Line: 20
appointment_time='19.30'
appointment_day='Saturday'
appointment_date='2021-8-28'
appointment_date's day='Saturday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='20.30'
appointment_day='Saturday'
appointment_date='2021-8-28'
appointment_date's day='Saturday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20

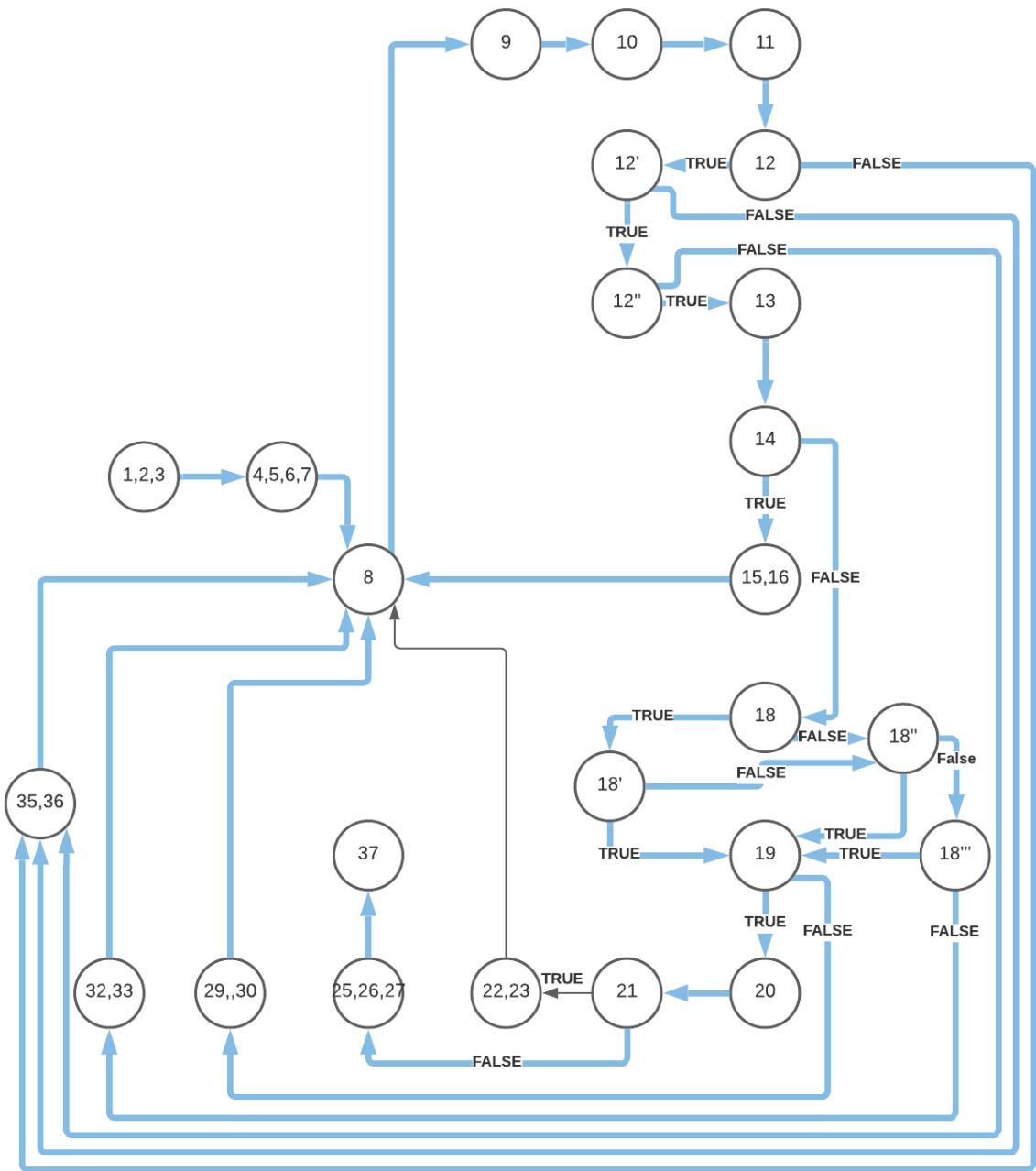
```

**Test Case 6:**

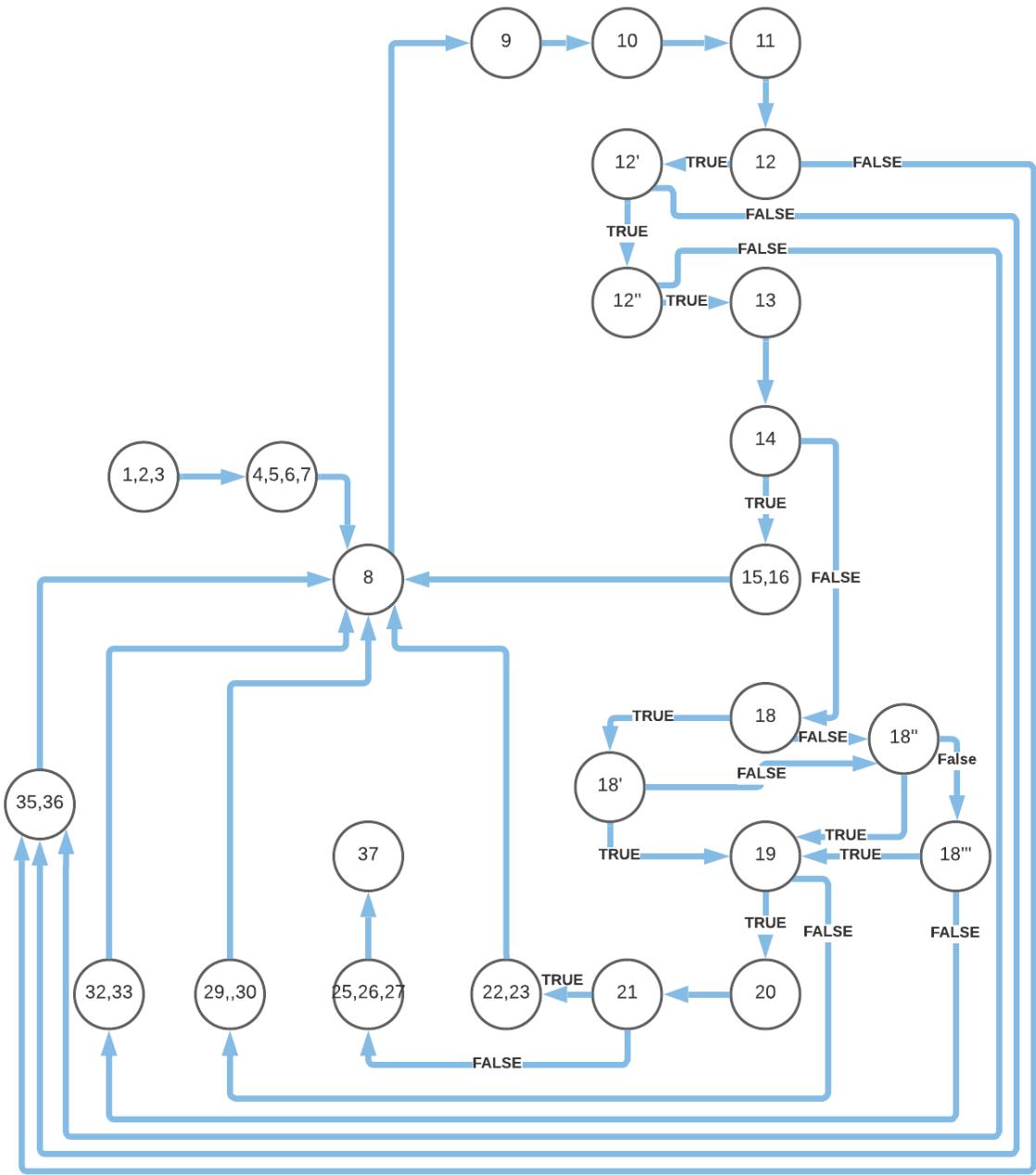
```

patient_id='12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-29'
appointment_date's day='Sunday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='19.30'
appointment_day='Sunday'
appointment_date='2021-8-29'
appointment_date's day='Sunday'
select query execution unsuccesful at Line:13
insert query execution sucessfull at Line: 20

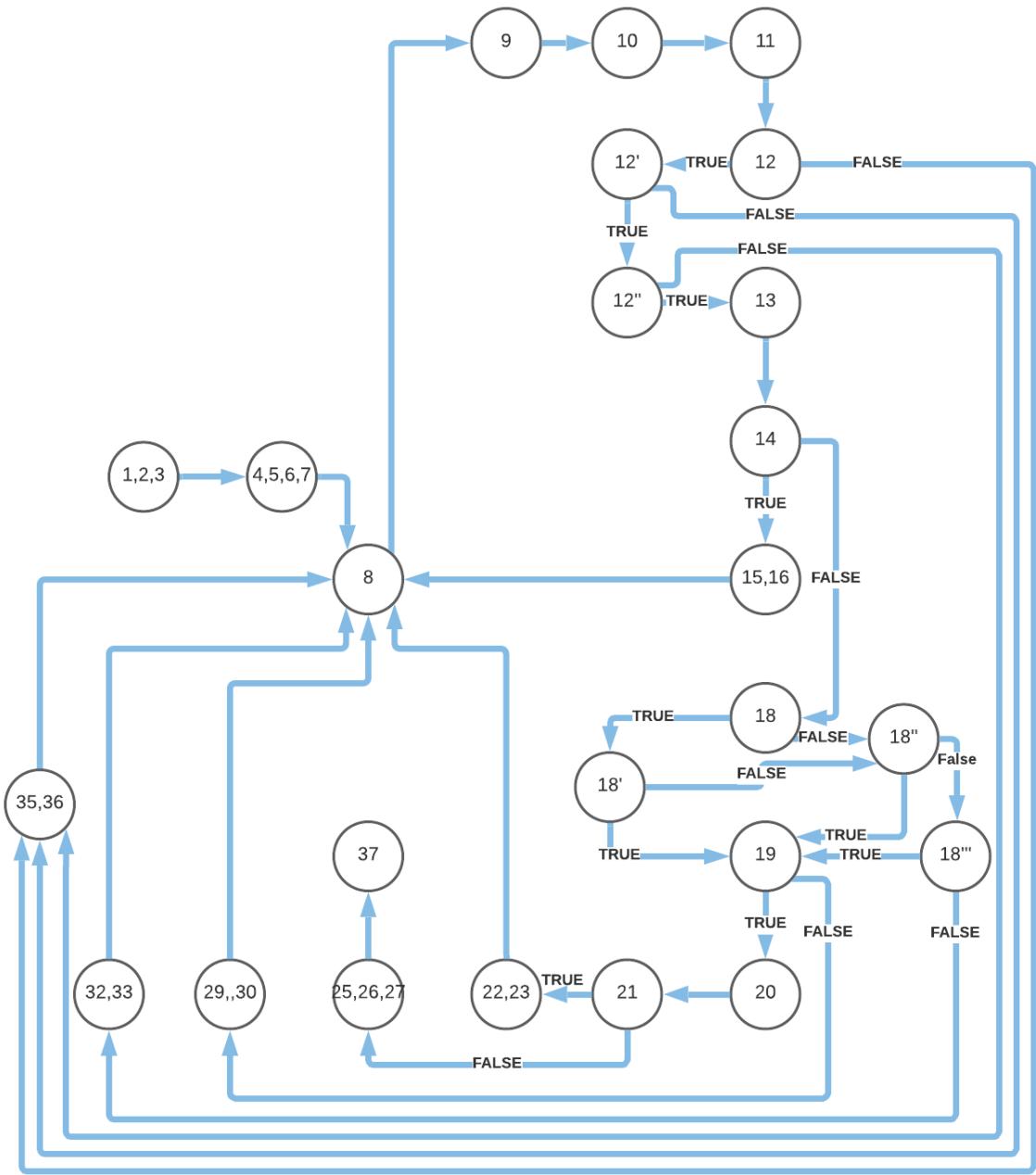
```











### Test Case 1:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19:30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccessful at Line:13  
insert query execution sucessfull at Line: 20
```

## Test Case 2:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```

### Test Case 3:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appoinment_time='19.30'  
appoinment_day=NULL'  
appoinment_date=NULL'  
appoinment_date's day='Monday'  
select query execution unsuccessful at Line:13  
insert query execution sucessfull at Line: 20  
appoinment_time='19.30'  
appoinment_day='Sunday'  
appoinment_date='2021-8-29'  
appoinment_date's day='Sunday'  
select query execution unsuccessful at Line:13  
insert query execution sucessfull at Line: 20
```

#### Test Case 4:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time=NULL'  
appointment_day=NULL'  
appointment_date=NULL'  
appointment_date.day='Monday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='20.30'  
appointment_day='Stursday'  
appointment_date='2021-8-28'  
appointment_date.day='Saturday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```

### Test Case 5:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date.day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date.day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='20.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date.day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Sunday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```

### Test Case 7:

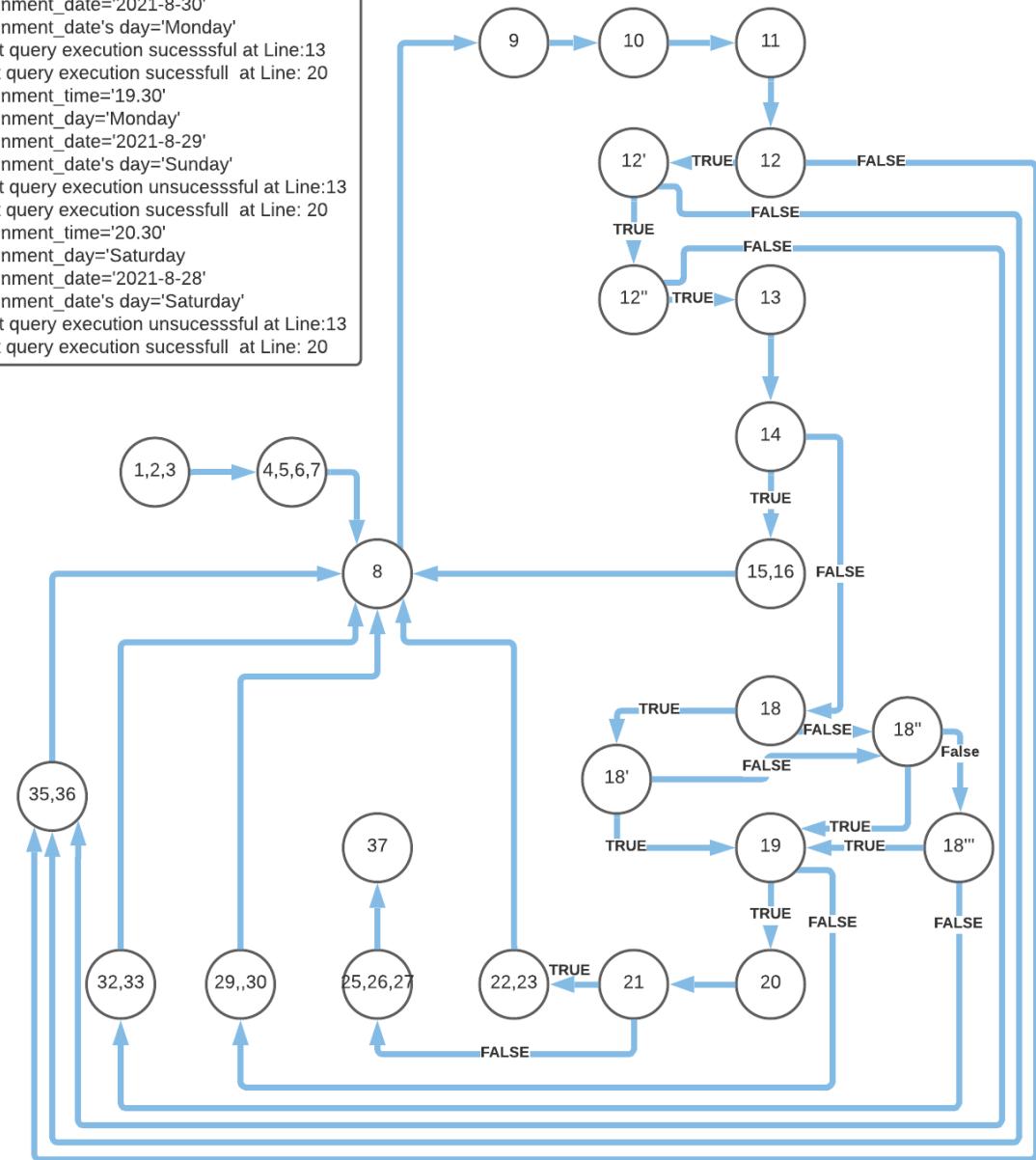
```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Sunday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccesfull at Line:13  
insert query execution unsuccesfull at Line: 20  
appointment_time='19.30'  
appointment_day='Sunday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccesfull at Line:13  
insert query execution sucessfull at Line: 20
```

#### Test Case 8:

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsucessfull at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessfull at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 9:**

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccessful at Line:13  
insert query execution sucessfull at Line: 20  
appointment_time='20.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccessful at Line:13  
insert query execution sucessfull at Line: 20
```



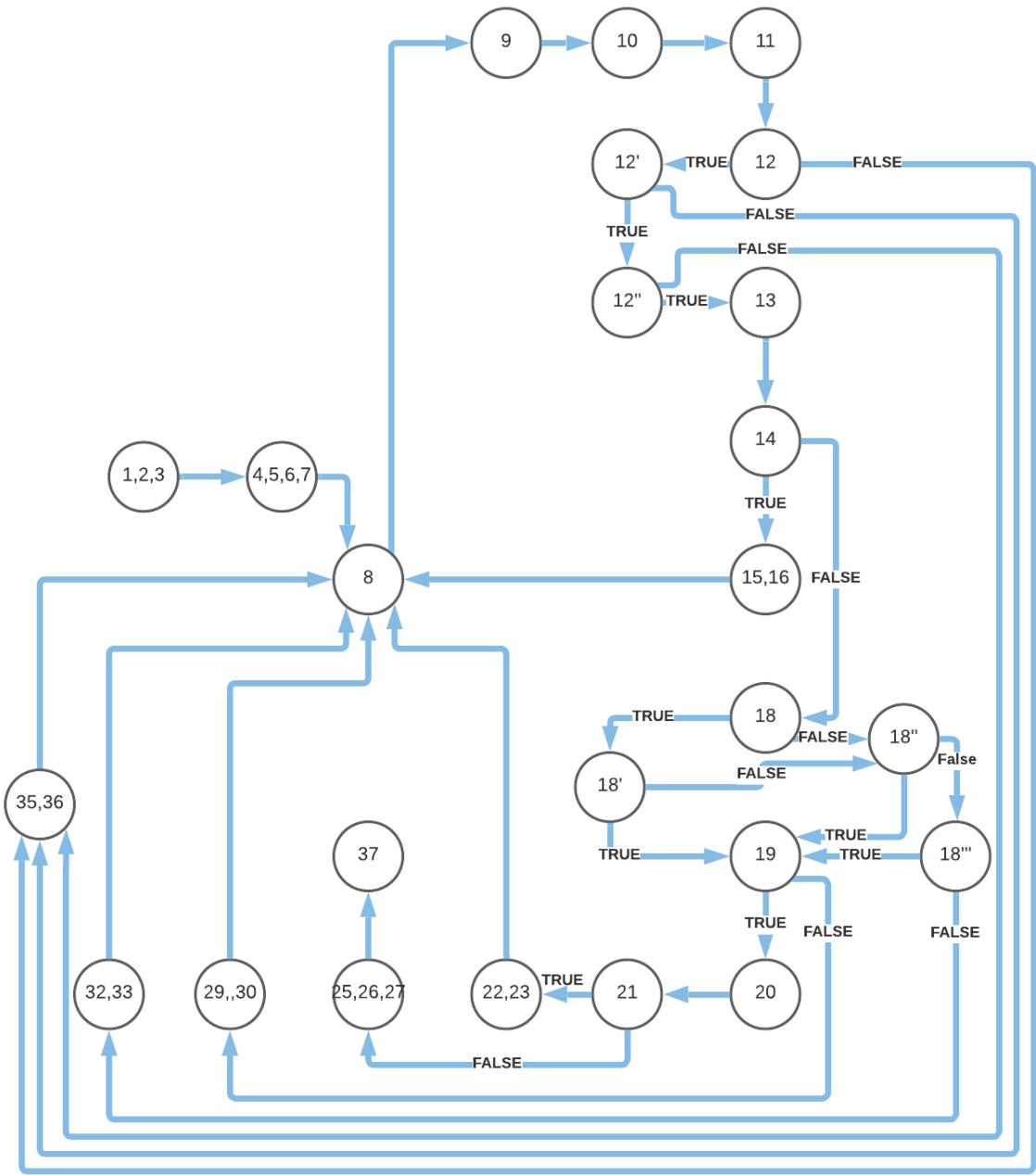


**Test Case 9:**

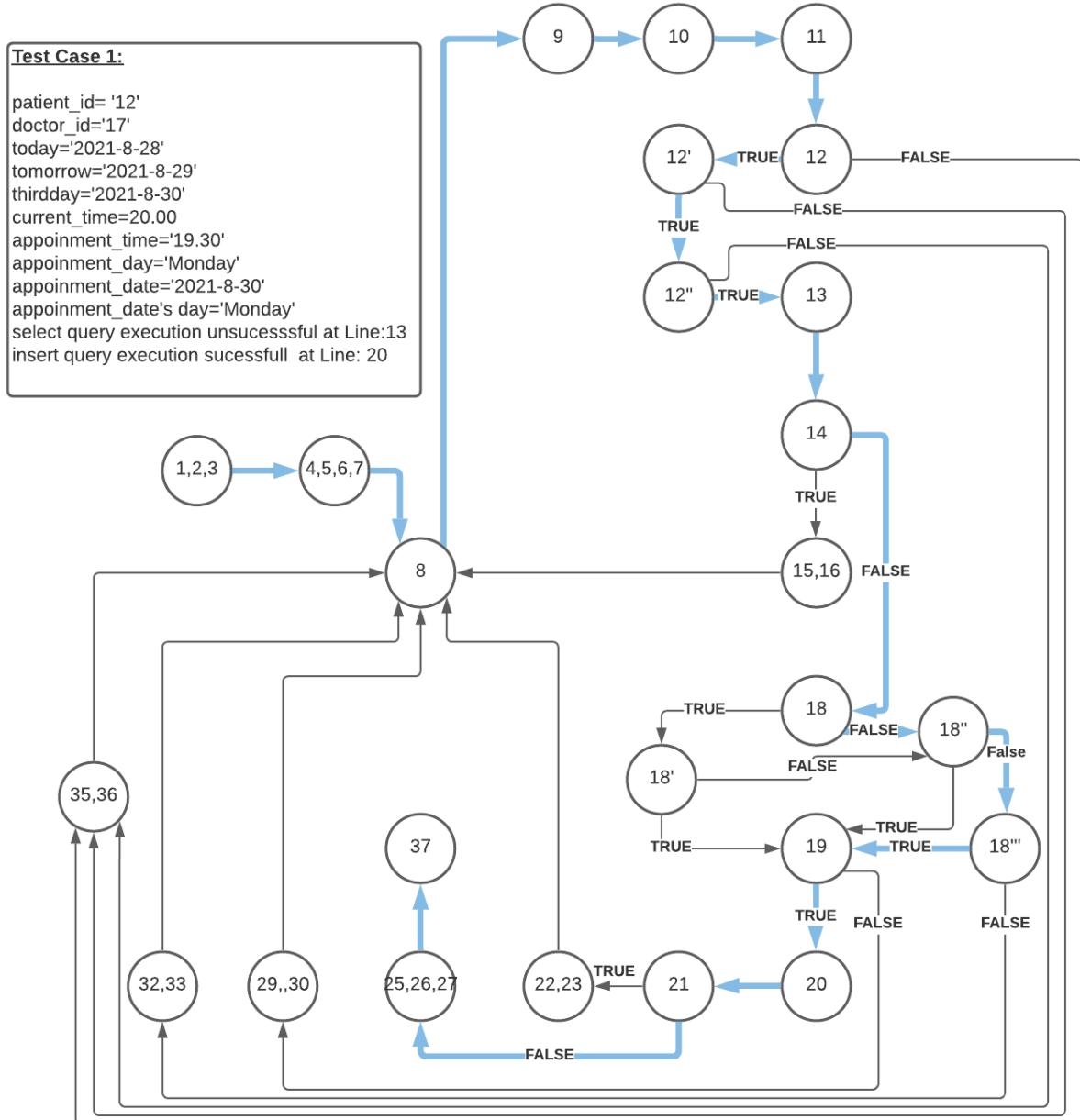
```
patient_id= '12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution sucessful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-29'
appointment_date's day='Sunday'
select query execution unsucessful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='20.30'
appointment_day='Saturday'
appointment_date='2021-8-28'
appointment_date's day='Saturday'
select query execution unsucessful at Line:13
insert query execution sucessfull at Line: 20
```

**Test Case 10:**

```
patient_id= '12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='19.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsucessful at Line:13
insert query execution unsucessfull at Line: 20
appointment_time='19.30'
appointment_day='Sunday'
appointment_date='2021-8-29'
appointment_date's day='Sunday'
select query execution sucessful at Line:13
insert query execution sucessfull at Line: 20
patient_id= '12'
doctor_id='17'
today='2021-8-28'
tomorrow='2021-8-29'
thirdday='2021-8-30'
current_time=20.00
appointment_time='NULL'
appointment_day='NULL'
appointment_date='NULL'
appointment_date's day='Monday'
select query execution unsucessful at Line:13
insert query execution sucessfull at Line: 20
appointment_time='16.30'
appointment_day='Monday'
appointment_date='2021-8-30'
appointment_date's day='Monday'
select query execution unsucessful at Line:13
insert query execution sucessfull at Line: 20
```



## Conditions Coverage:

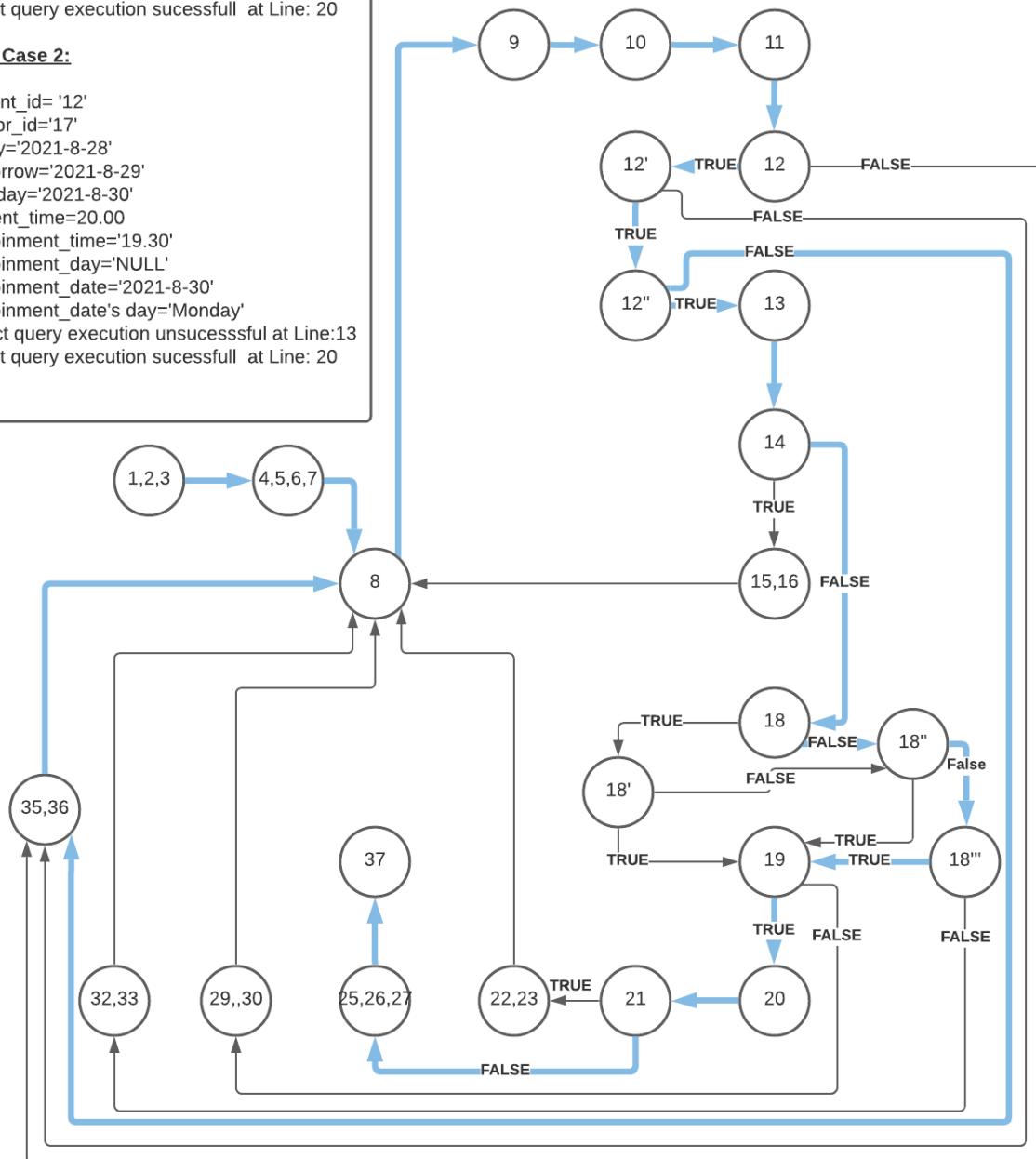


**Test Case 1:**

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id='12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

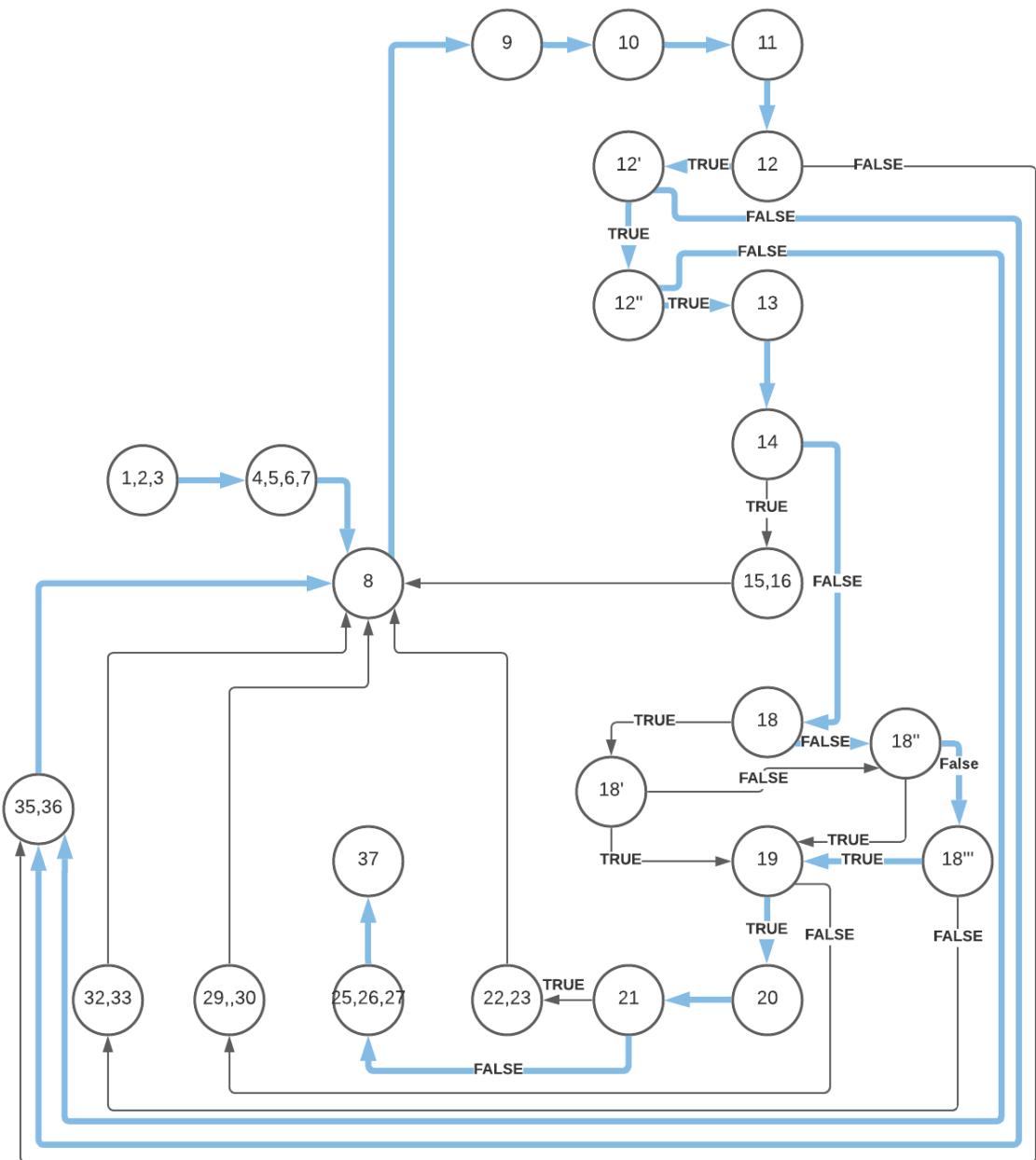
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

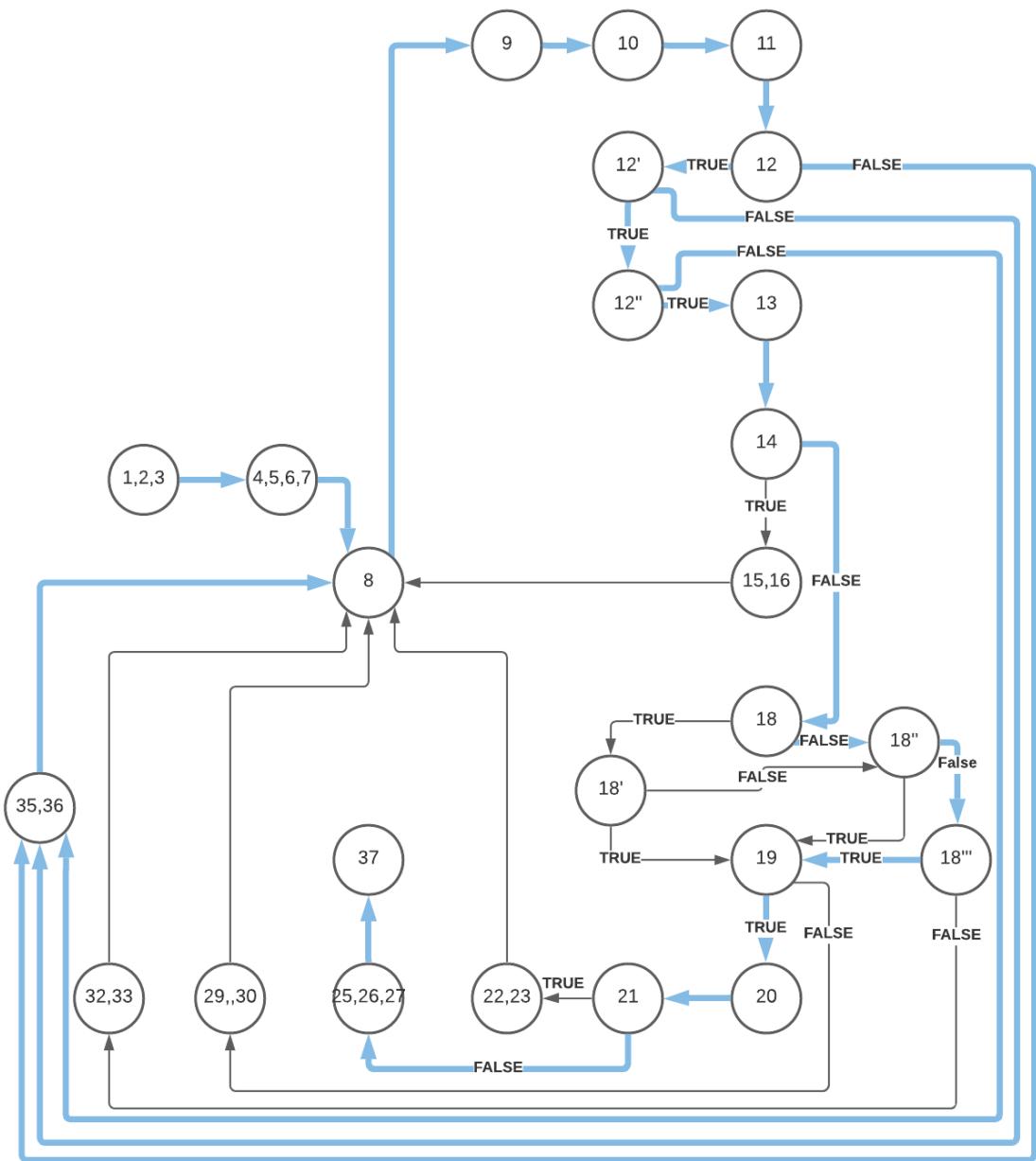
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

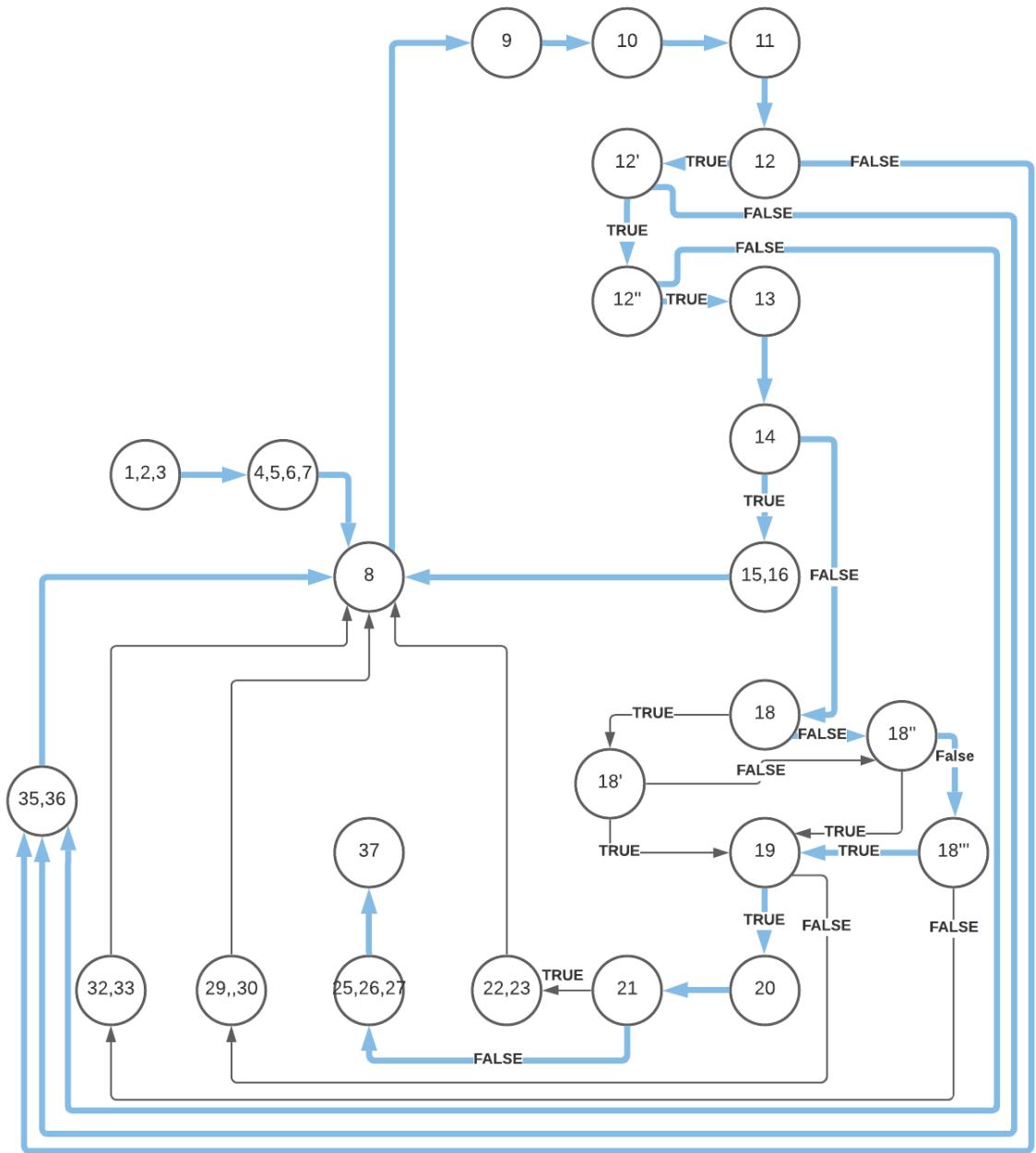
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

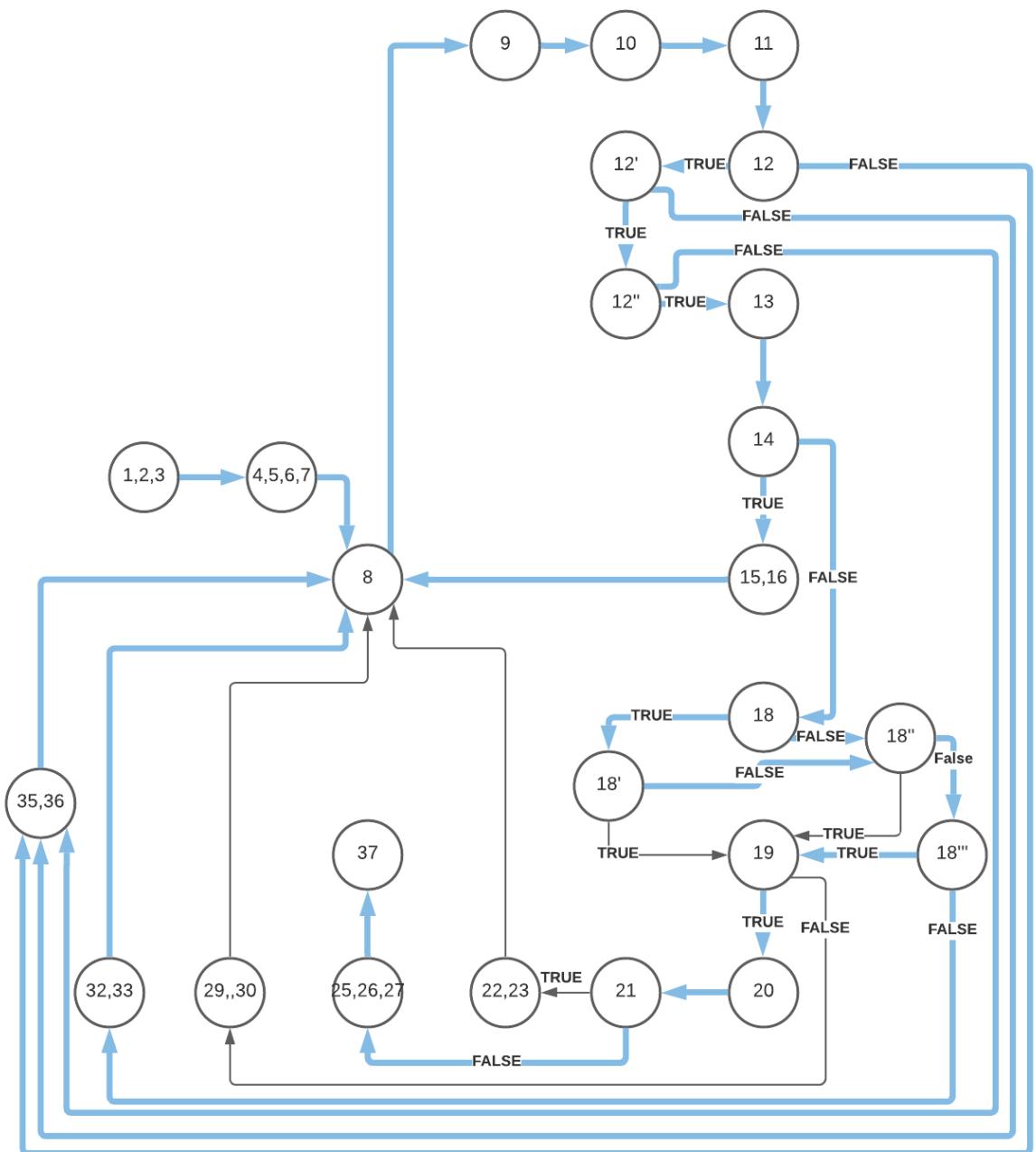
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

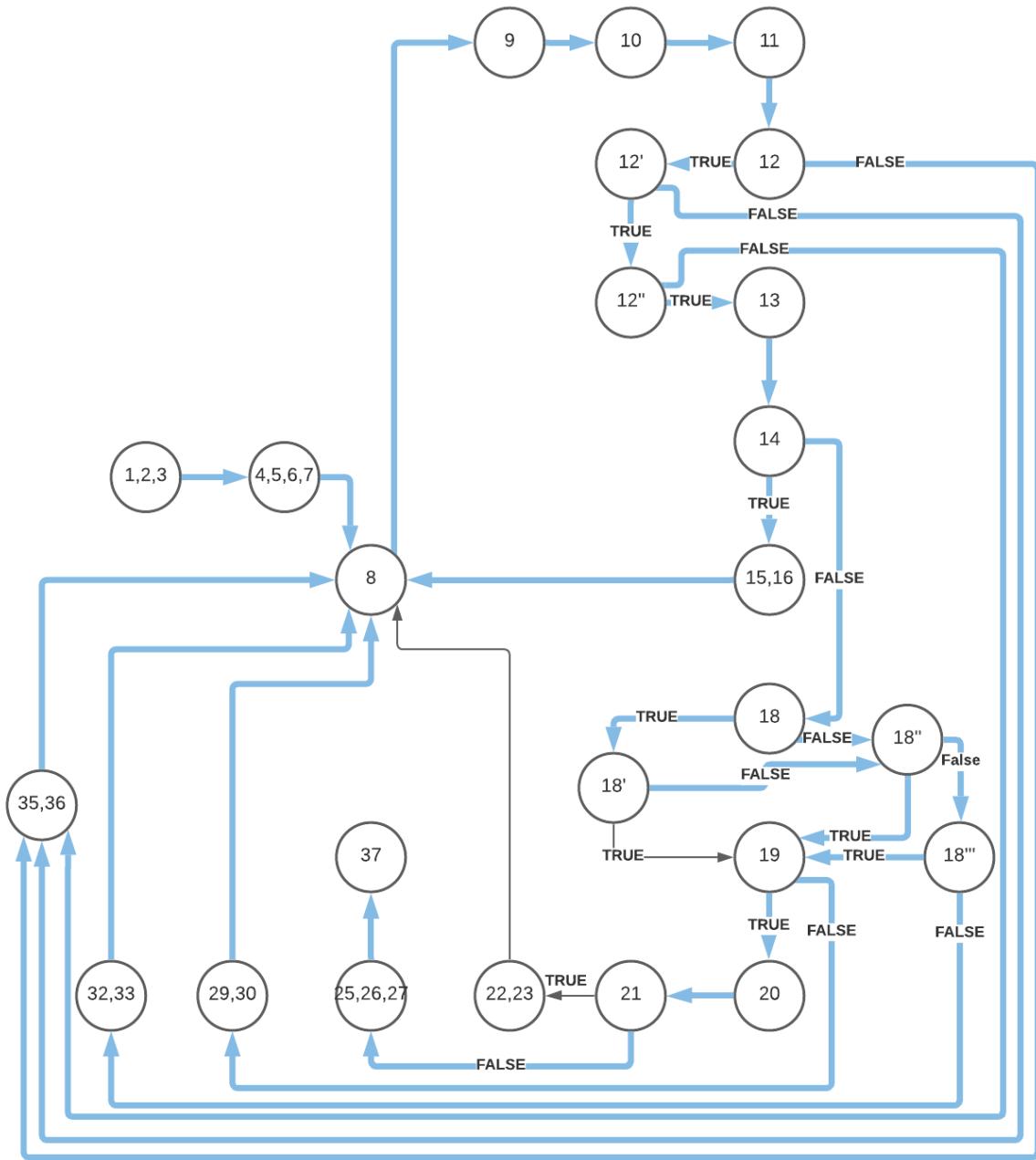
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 7:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsucessful at Line:13  
insert query execution sucessfull at Line: 20
```



**Test Case 1:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 2:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 3:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 4:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='NULL'  
appointment_day='NULL'  
appointment_date='NULL'  
appointment_date's day='Monday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 5:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-30'  
appointment_date's day='Monday'  
select query execution sucessful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 6:**

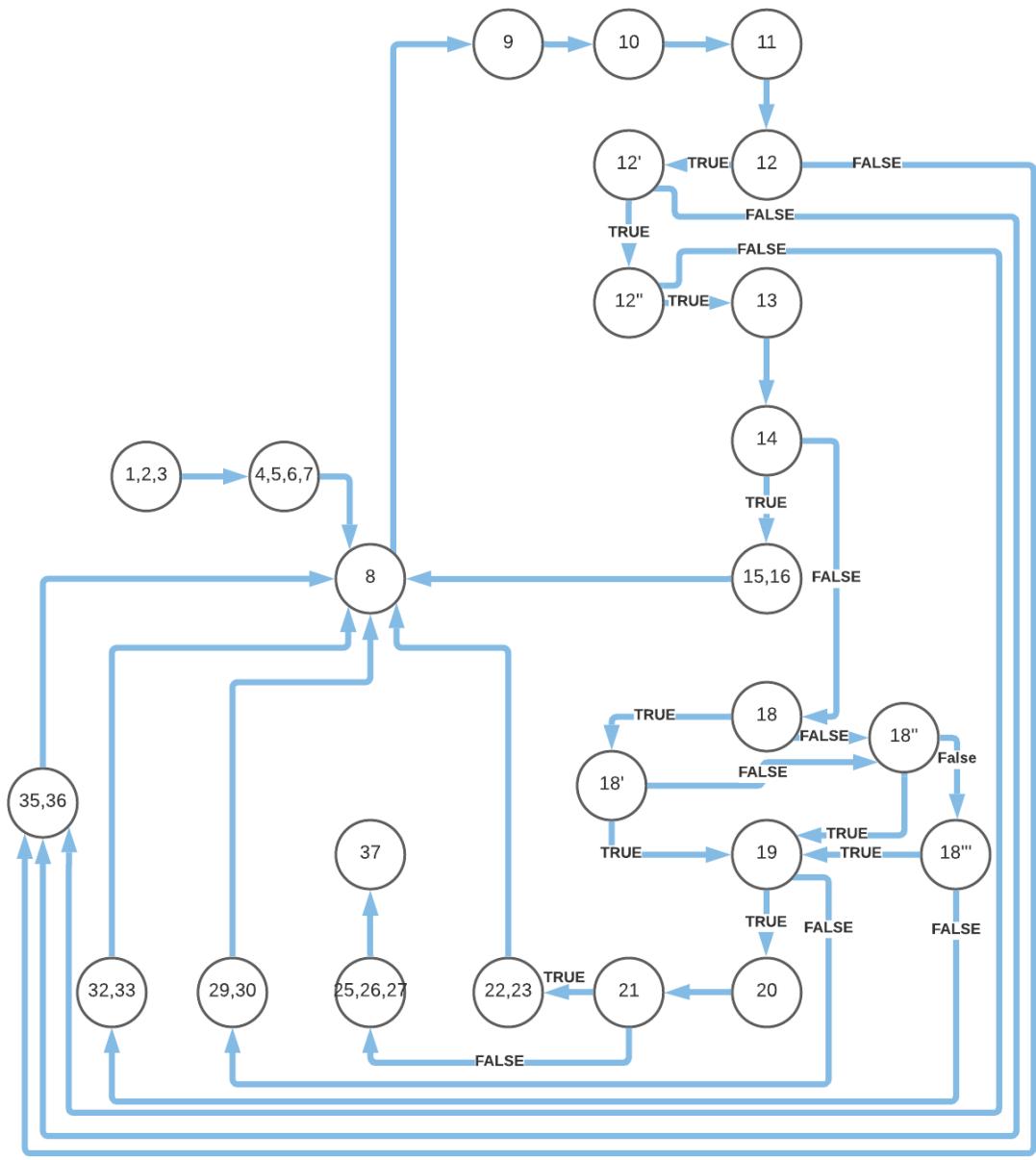
```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 7:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='19.30'  
appointment_day='Monday'  
appointment_date='2021-8-29'  
appointment_date's day='Sunday'  
select query execution unsuccesful at Line:13  
insert query execution sucessfull at Line: 20
```

**Test Case 8:**

```
patient_id= '12'  
doctor_id='17'  
today='2021-8-28'  
tomorrow='2021-8-29'  
thirdday='2021-8-30'  
current_time=20.00  
appointment_time='20.30'  
appointment_day='Saturday'  
appointment_date='2021-8-28'  
appointment_date's day='Saturday'  
select query execution unsuccesful at Line:13  
insert query execution unsuccesful at Line: 20
```



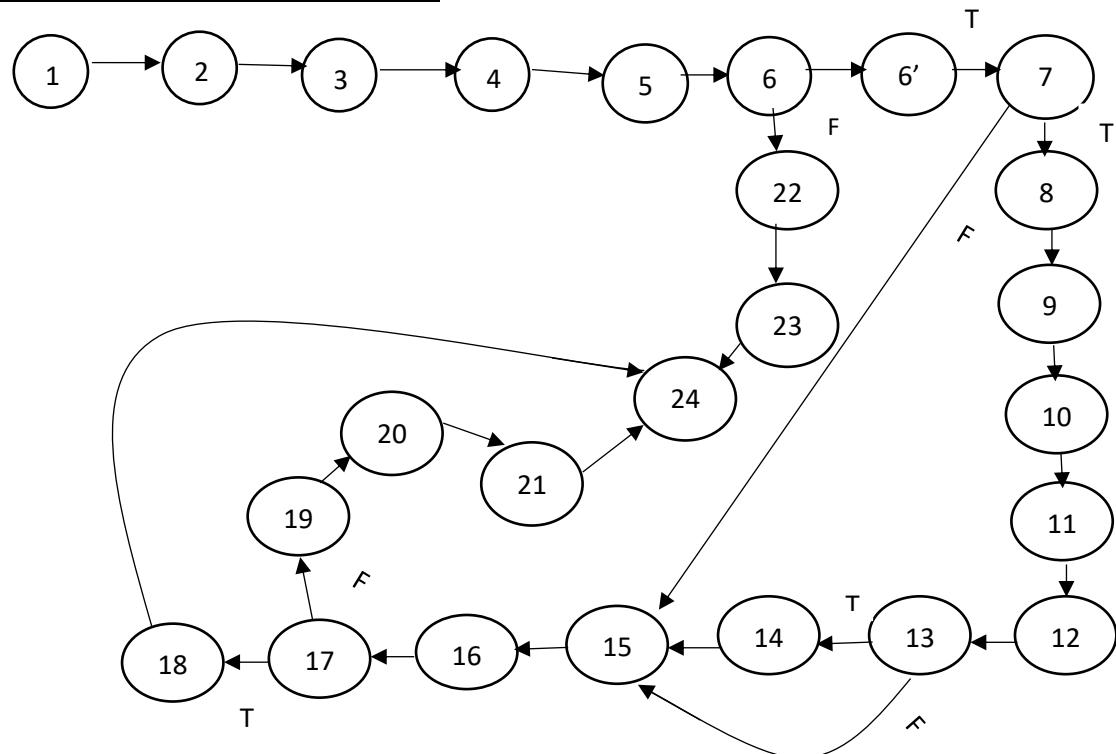
### Whitebox testing 1 : (give treatment)

```

1. Begin
2. Doctor_id_ receive =receive doctor id from previous page
3. secret_code_ receive: =input ()
4. query = select all from appointment where doctor_id=doctor_id_ receive AND
secret_code=secret_code_ receive
5. result = mysqli_query(con,query)
6. if(result && mysqli_num_rows(result) > 0)
7.   if(!empty(secret_code))
8.     diseases = input ()
9.     remarks = input ()
10.    suggested_medecine = input ()
11.    advice = input ()
12.    Next_visiting_date = input ()
13.    if(!empty(Next_visiting_date))
14.      Send mail (Next_visiting_date)
15.    query = insert prescription(diseases,remarks,suggested_medecine,advice)
16.    result=mysqli_query(con, query);
17.    if (!result)
18.      show 'prescription inserted before.Treatment Already done for this Appoinment'
19.    else
20.      res=query(insert visiting date)
21.      show 'next visiting date'
22.  else
23.    Return 'This code is not suitable for this doctor'
24. end

```

### Give treatment “Control flow Graph:



## Statement coverage

### Test case 1

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful.

Doctor did not insert prescription using this secret code before. .[from database]

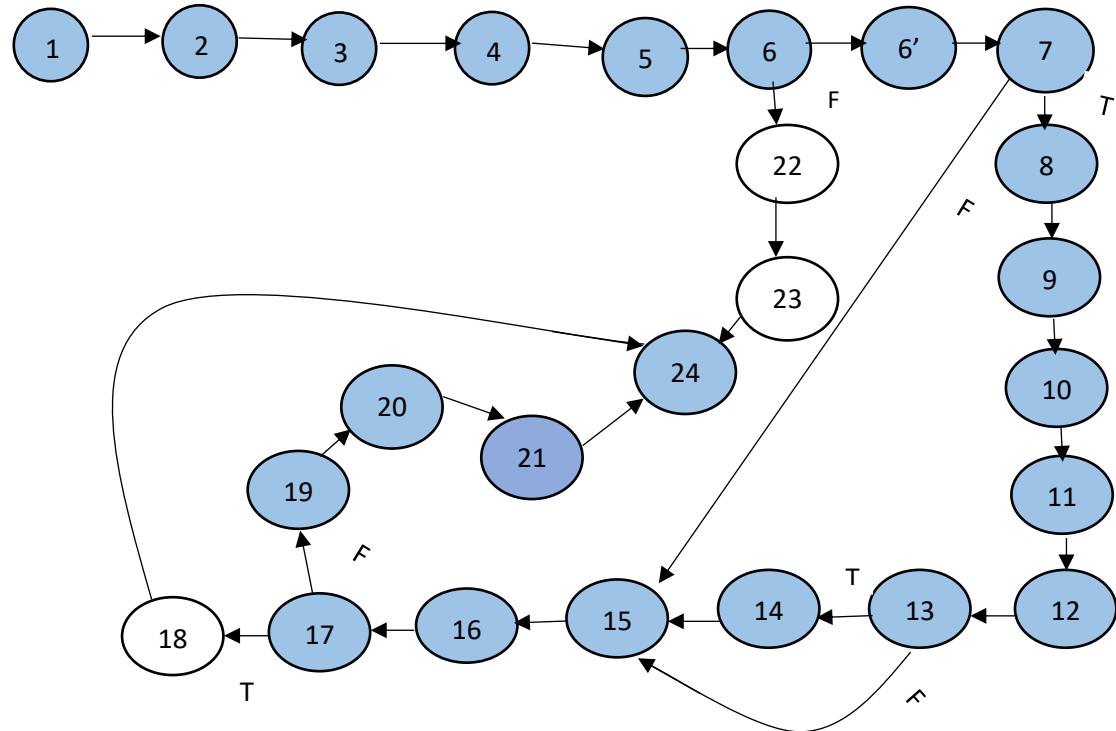
diseases = ' fever '

remarks = 'bacterial infection'

suggested\_medecine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## Statement coverage

### Test case 2

**Doctor\_id\_receive=60229[database]**

**Secret\_code\_receive=20180[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is not successful.**

[database has no appointment of this secret code yet ]

**Doctor did not insert prescription using this secret code before.[from database]**

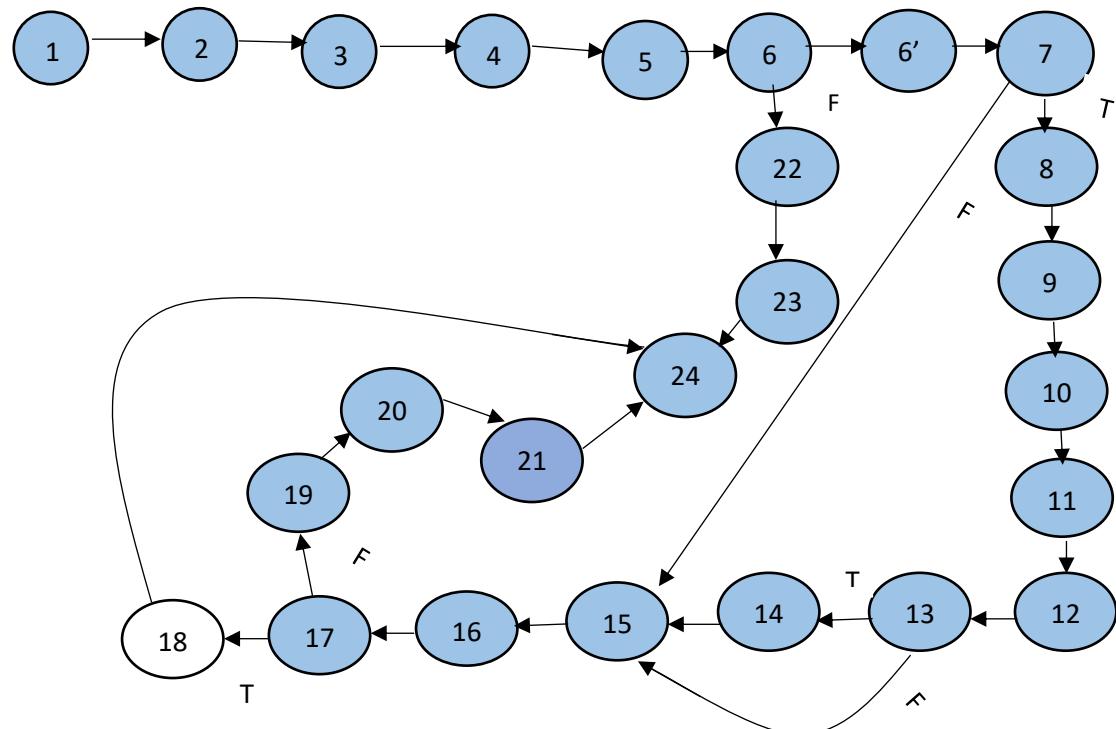
**diseases =' fever '**

**remarks = 'bacterial infection'**

**suggested\_medecine = 'Napa extend'**

**advice = 'avoid cold water'**

**Next\_visiting\_date = 2021-12-28**



## Statement coverage

### Test case 3

**Doctor\_id\_ receive=60229[database]**

**Secret\_code\_ receive=20180[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful.**

Doctor inserted prescription using this secret code before.[from database]

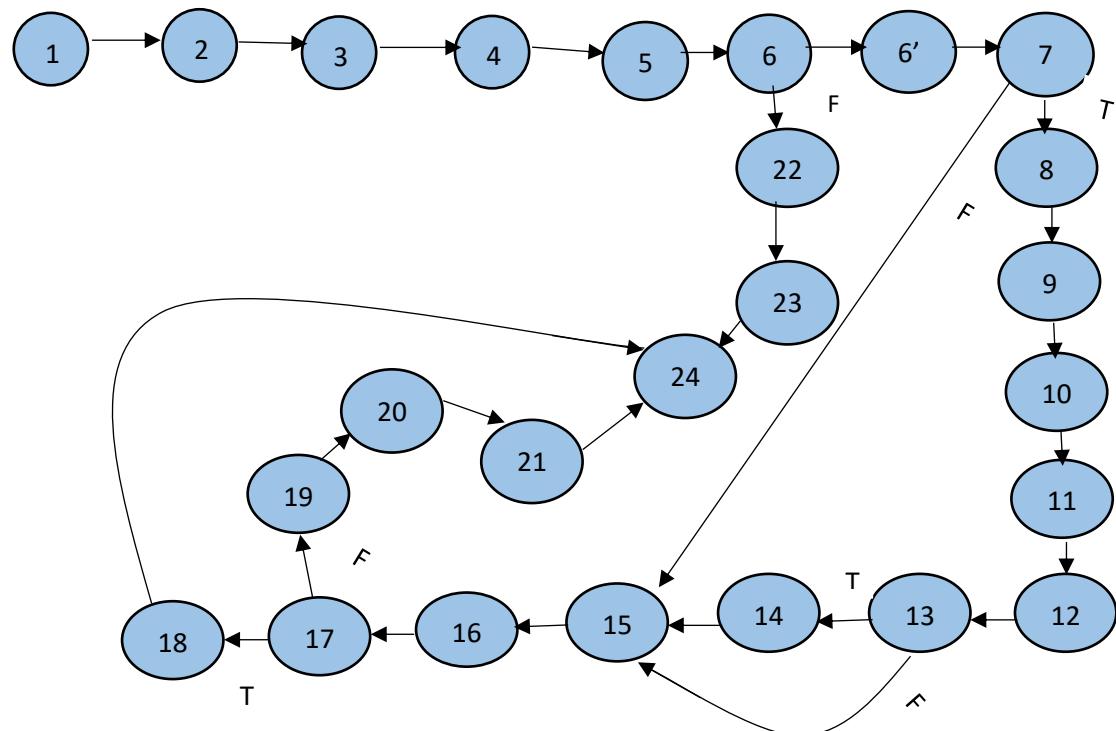
**diseases = 'fever'**

**remarks = ‘bacterial infection’**

suggested medecine = 'Napa extend'

**advice = ‘avoid cold water’**

**Next\_visiting\_date = 2021-12-28**



## Edge coverage

### Test case 1

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful

Doctor did not insert prescription using this secret code before.[from database]

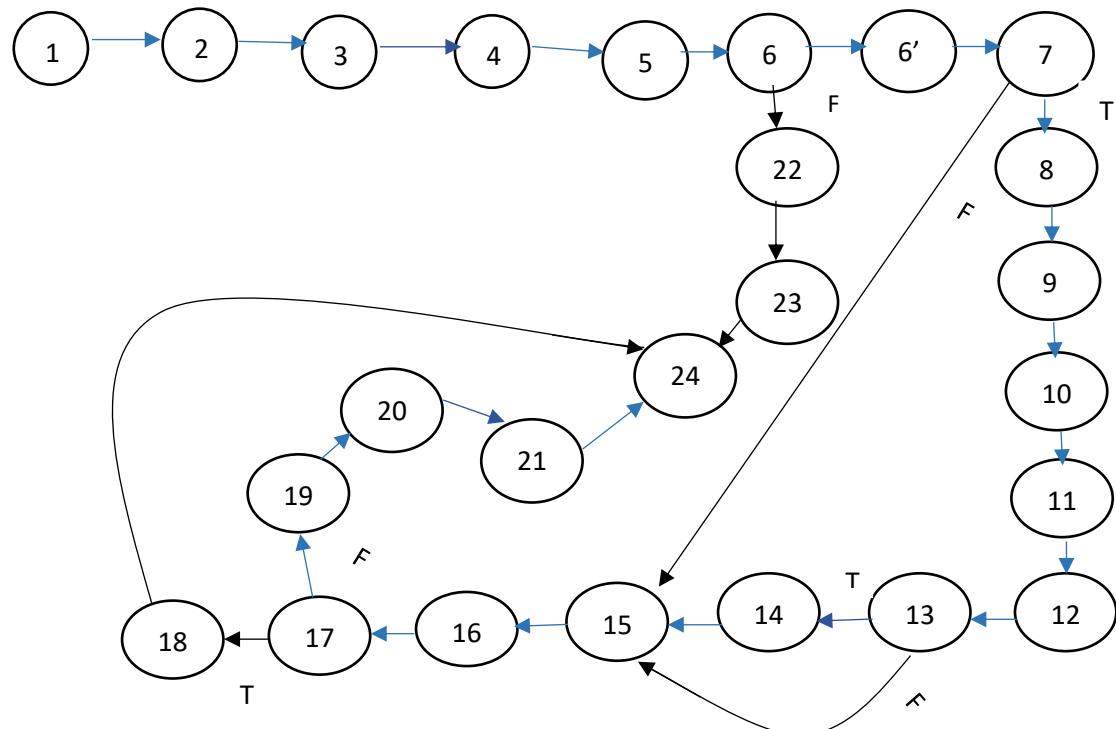
diseases = 'fever'

remarks = 'bacterial infection'

suggested\_medecine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## Edge coverage

## Test case 2

**Doctor\_id\_ receive=60229[database]**

**Secret\_code\_ receive=20180[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is not successful**

**Doctor did not insert prescription using this secret code before.[from database]**

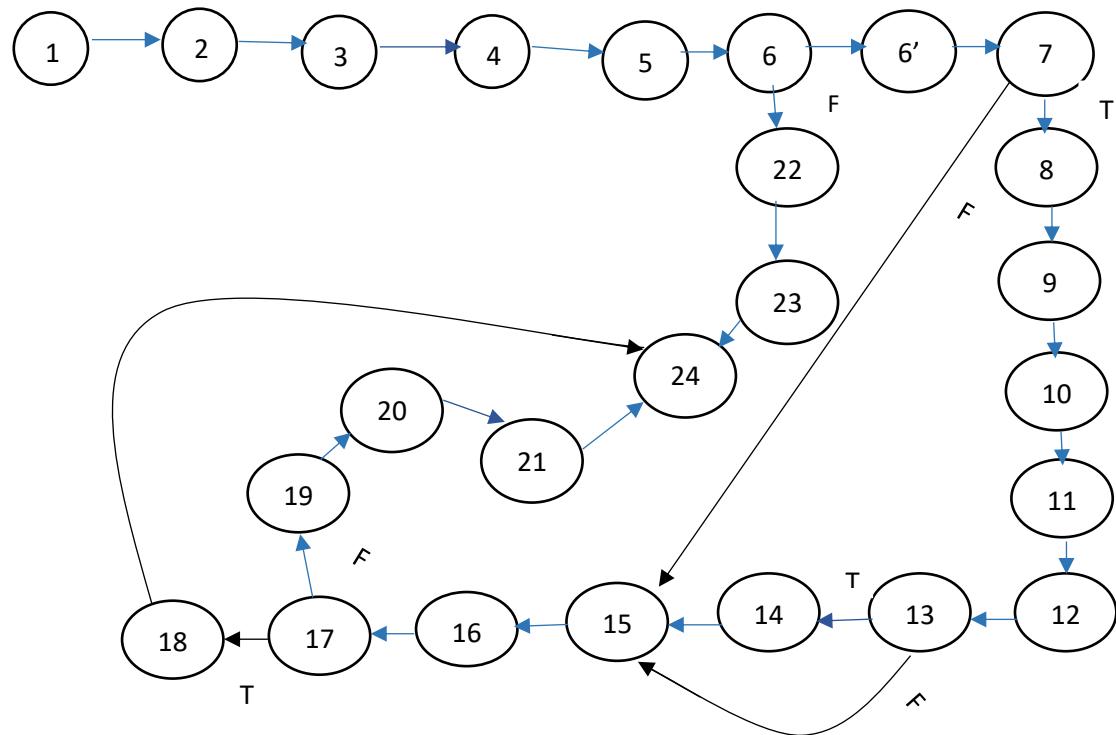
**diseases = ' fever '**

**remarks = 'bacterial infection'**

**suggested\_medecine = ‘Napa extend’**

**advice = ‘avoid cold water’**

**Next\_visiting\_date = 2021-12-28**



## Edge coverage

Test case 3

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=NULL[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code= NULL is successful

Doctor inserted prescription using this secret code before.[from database]

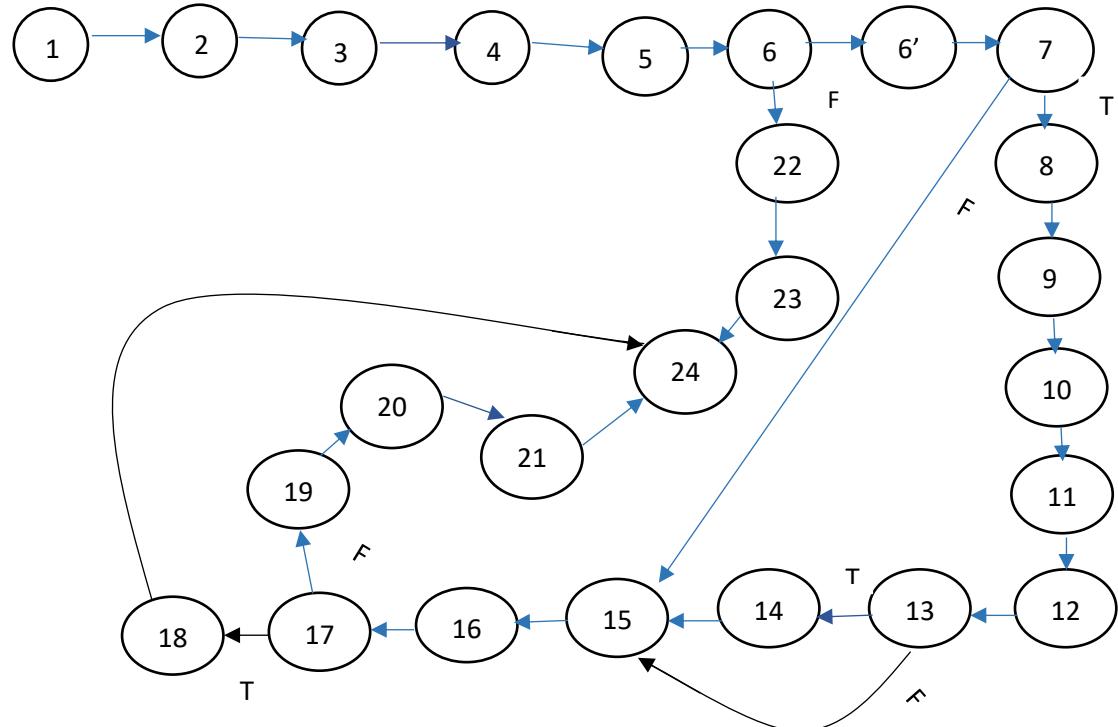
diseases = ' fever '

remarks = 'bacterial infection'

suggested\_medecine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## Edge coverage

### Test case 4

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful

Doctor did not insert prescription using this secret code before.[from database]

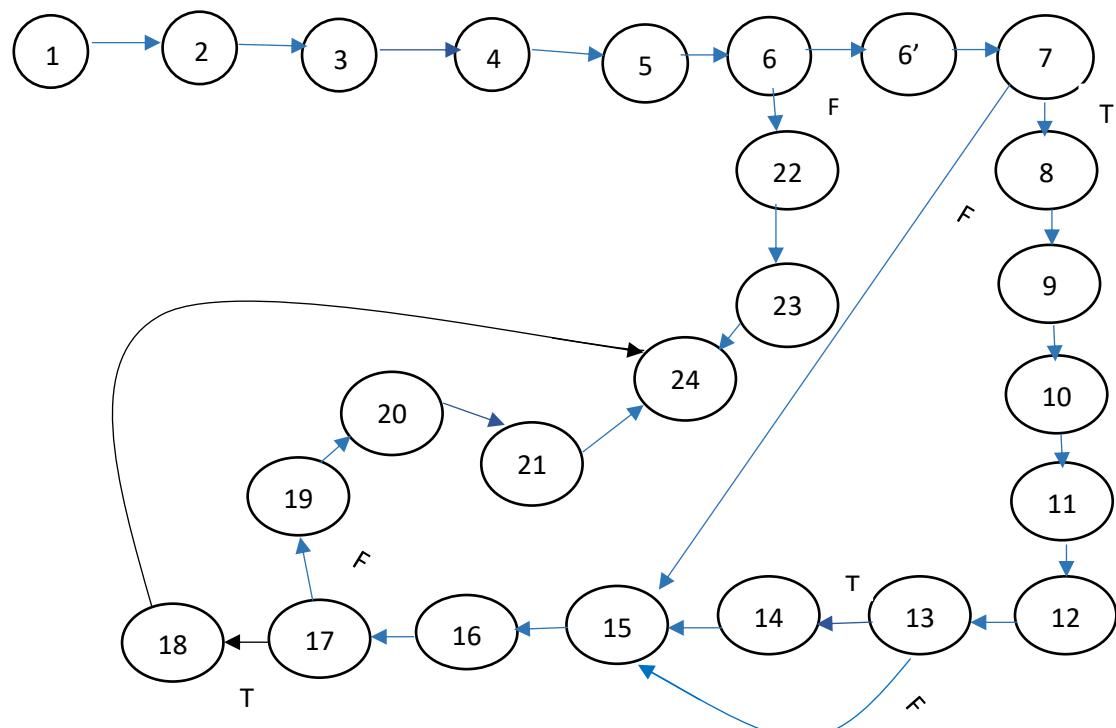
diseases = 'fever'

remarks = 'bacterial infection'

suggested\_medecine = 'Napa extend'

advice = 'avoid cold water'

NO Next\_visiting\_date inserted by doctor.



## Edge coverage

## Test case 5

**Doctor\_id\_ receive=60229[database]**

**Secret\_code\_ receive=20180[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180  
successful**

**Doctor inserted prescription using this secret code before.[from database]**

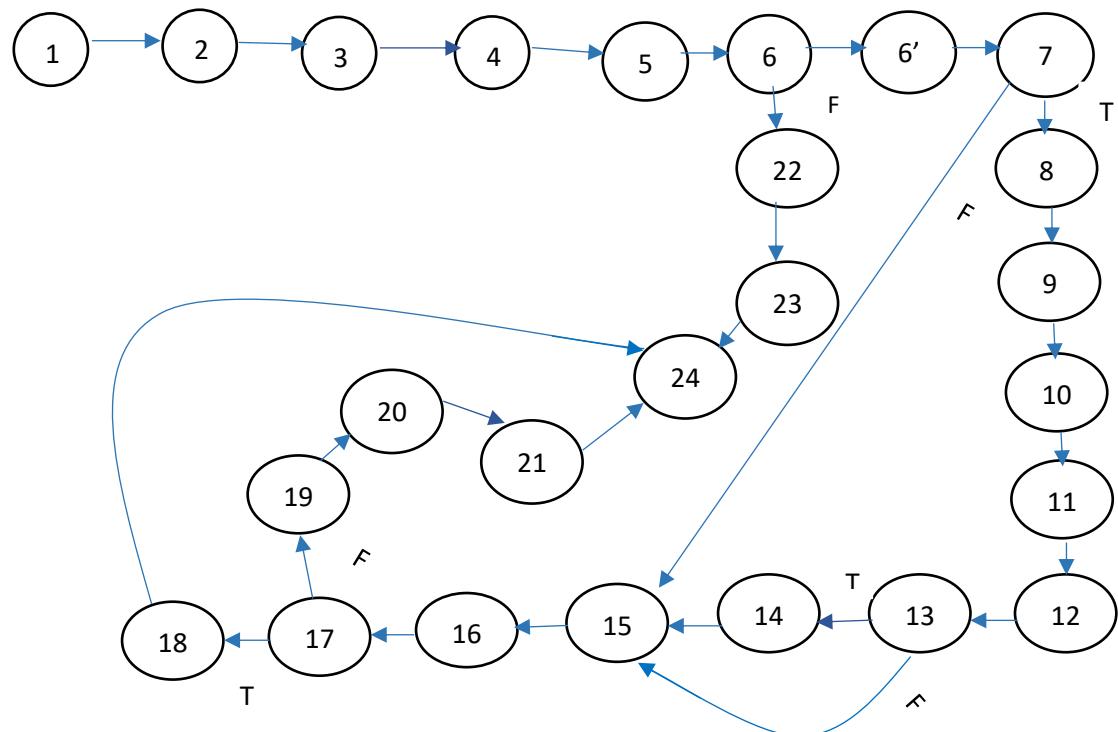
**diseases = 'fever'**

**remarks** = ‘bacterial infection’

**suggested\_medecine = ‘Napa extend’**

**advice = ‘avoid cold water’**

**Next\_visiting\_date =2021-12-28**



## Path coverage

## Test case 1

**Doctor\_id\_ receive=60229[database]**

**Secret\_code\_ receive=20180[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful**

**Doctor did not insert prescription using this secret code before.[from database]**

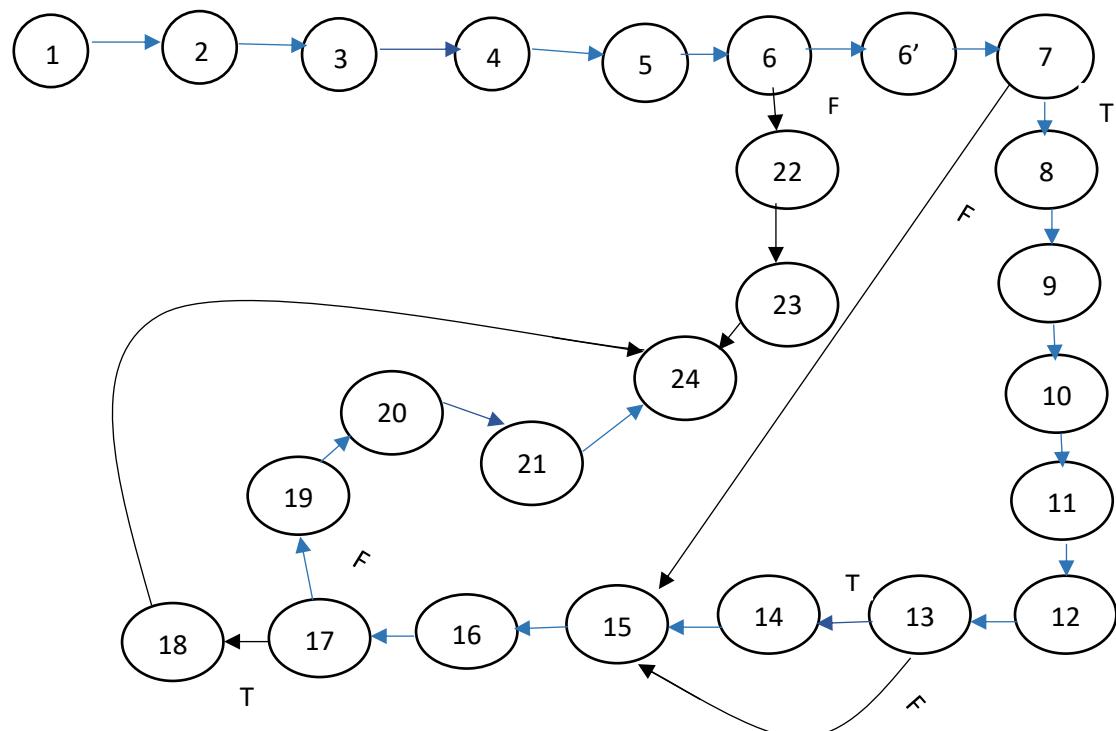
**diseases = ' fever '**

**remarks = ‘bacterial infection’**

**suggested\_medecine = ‘Napa extend’**

**advice = ‘avoid cold water’**

**Next\_visiting\_date = 2021-12-28**



## Path coverage

Test case 2

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful

Doctor inserted prescription using this secret code before.[from database]

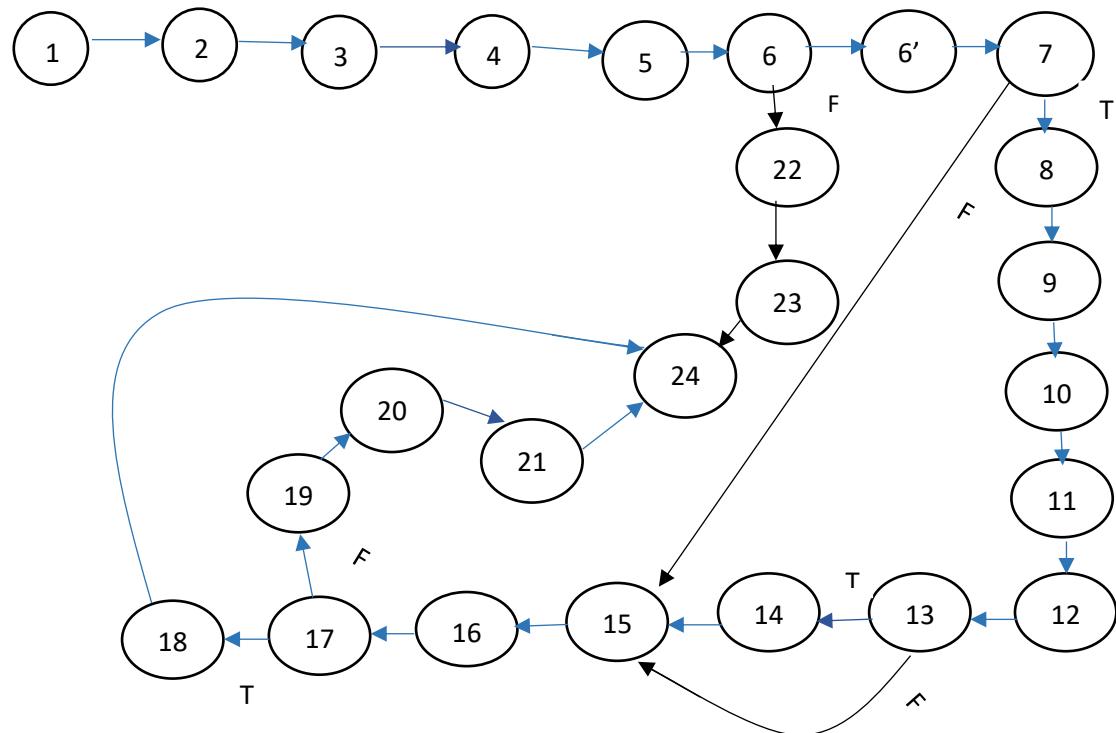
diseases = ' fever '

remarks = 'bacterial infection'

suggested\_medicine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## **Path coverage**

**Test case 3**

**Doctor\_id\_ receive=60229[database]**

**Secret\_code\_ receive=20221[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code= 20180 is successful**

**Doctor did not insert prescription using this secret code before.[from database]**

**diseases =’ fever ‘**

**remarks = ‘bacterial infection’**

**suggested\_medecine = ‘Napa extend’**

**advice = ‘avoid cold water’**

**Next\_visiting\_date = NULL**

**Doctor\_id\_ receive=60229[database]**

**Secret\_code\_ receive=60229 [input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code= 60229 is successful**

**Doctor inserted prescription using this secret code before.[from database]**

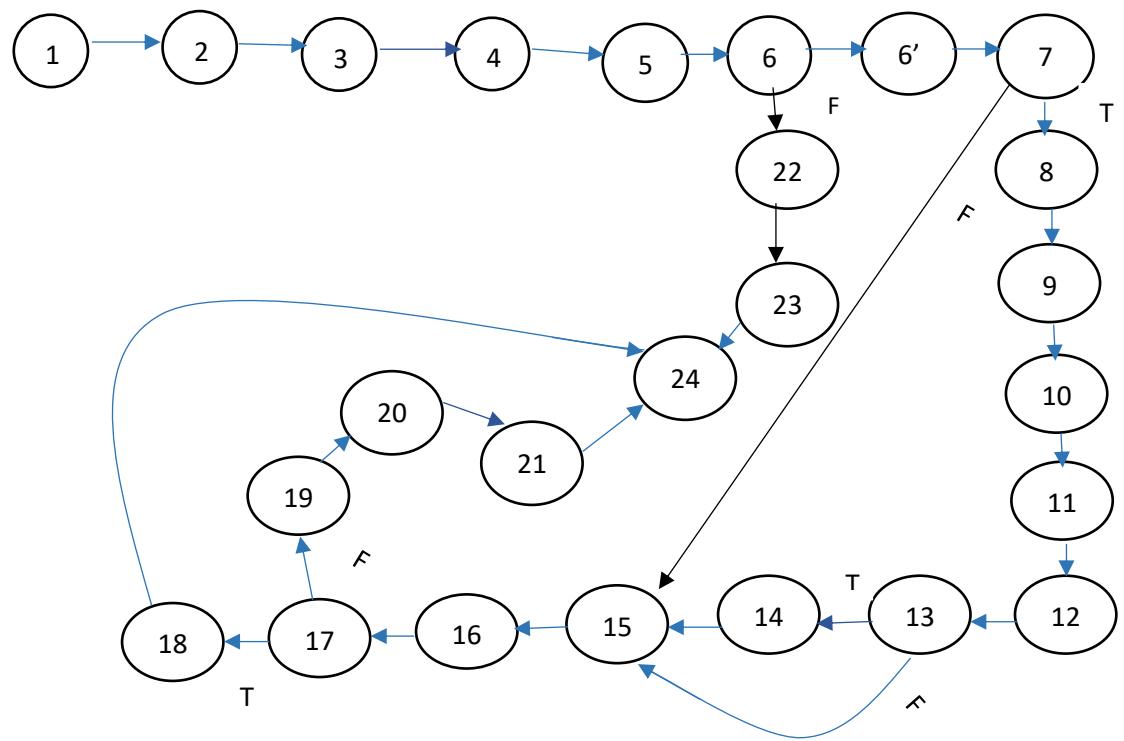
**diseases =’ fever ‘**

**remarks = ‘bacterial infection’**

**suggested\_medecine = ‘Napa extend’**

**advice = ‘avoid cold water’**

**Next\_visiting\_date = NULL**



## **Path coverage**

**Test case 4**

**Doctor\_id\_receive=60229[database]**

**Secret\_code\_receive=NULL[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=NULL is successful**

**Doctor did not insert prescription using this secret code before.[from database]**

**diseases =’ fever ‘**

**remarks =’ bacterial infection ’**

**suggested\_medecine =’ Napa extend ’**

**advice =’ avoid cold water ’**

**Next\_visiting\_date =2021-12-28**

**Doctor\_id\_receive=60229[database]**

**Secret\_code\_receive=NULL[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=NULL is successful**

**Doctor inserted prescription using this secret code before.[from database]**

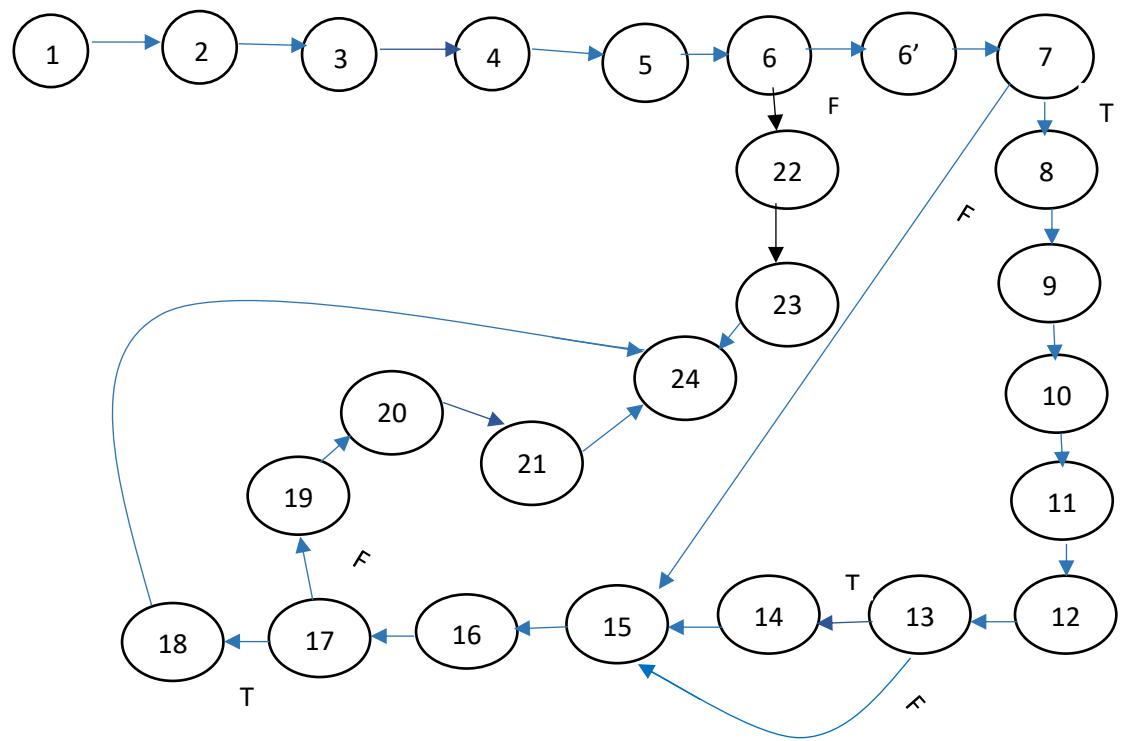
**diseases =’ fever ‘**

**remarks =’ bacterial infection ’**

**suggested\_medecine =’ Napa extend ’**

**advice =’ avoid cold water ’**

**Next\_visiting\_date =2021-12-28**



## Path coverage

Test case 5

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is not successful

Doctor inserted prescription using this secret code before.[from database]

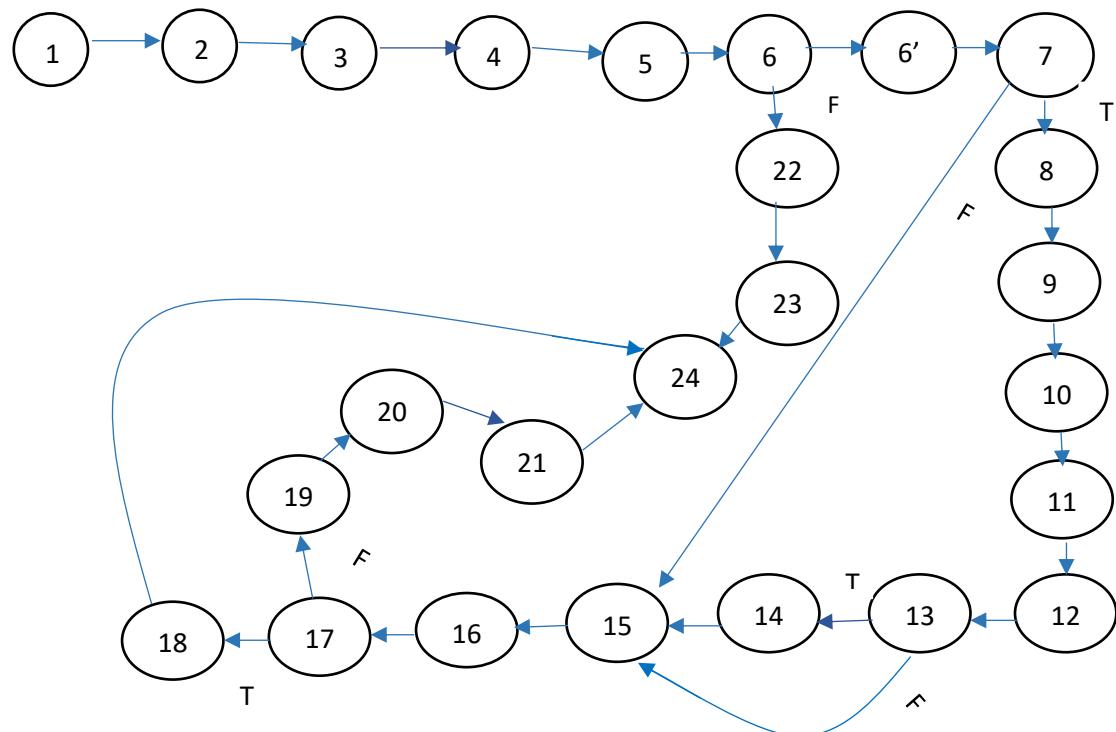
diseases = 'fever'

remarks = 'bacterial infection'

suggested\_medicine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date =2021-12-28



## Condition coverage

Test case 1

If line 6, 6' number condition true,

If line 7,13 number condition true,

If line 17 number condition false,

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful

Doctor did not insert prescription using this secret code before.[from database]

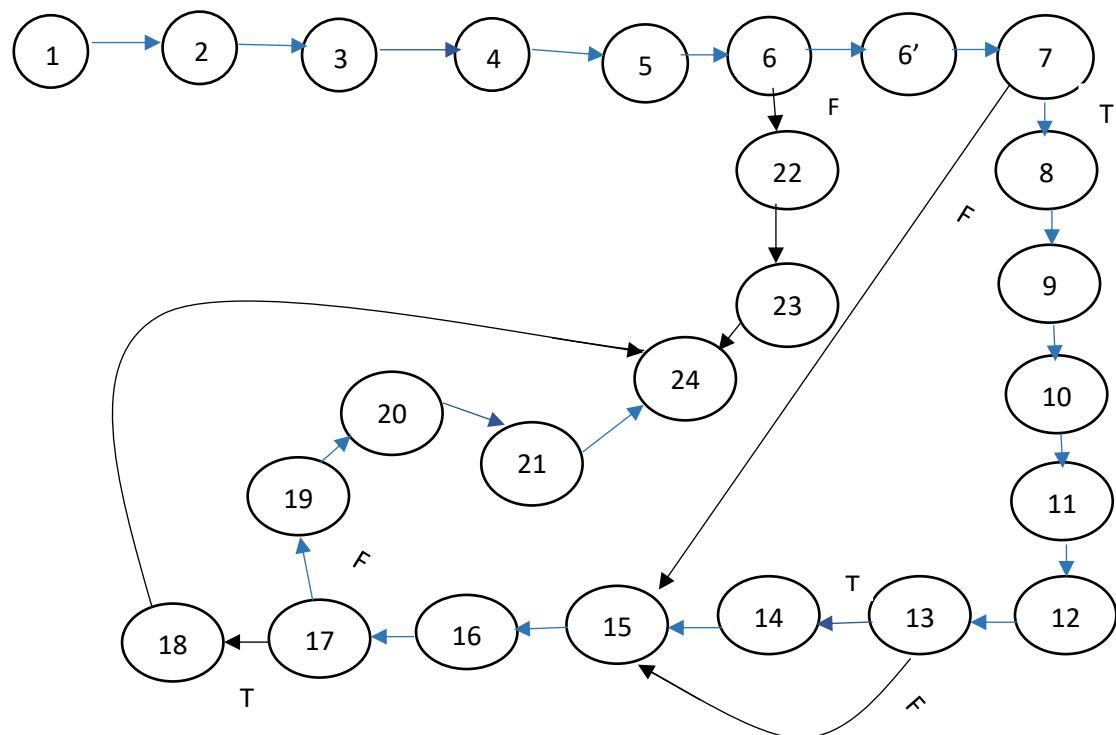
diseases =' fever '

remarks = 'bacterial infection'

suggested\_medecine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## Condition coverage

Test case 2

If line 6, 6' or only 6' number condition false,

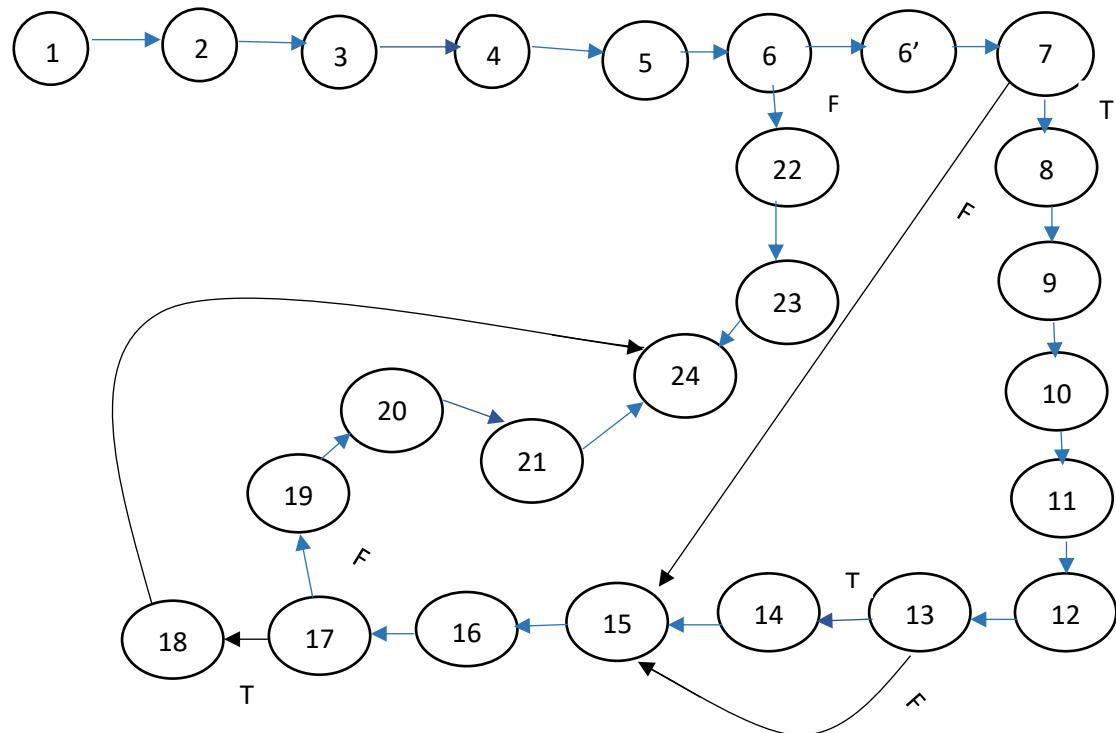
If line 7,13 number condition true or false,

If line 17 number condition true or false,

Doctor\_id\_ receive=60229[database]

Secret\_code\_ receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is not successful



## Condition coverage

Test case 3

If line 6, 6' number condition true,

If line 7 number condition false,

If line 17 number condition false,

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=NULL[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code= NULL is successful

Doctor did not insert prescription using this secret code before.[from database]

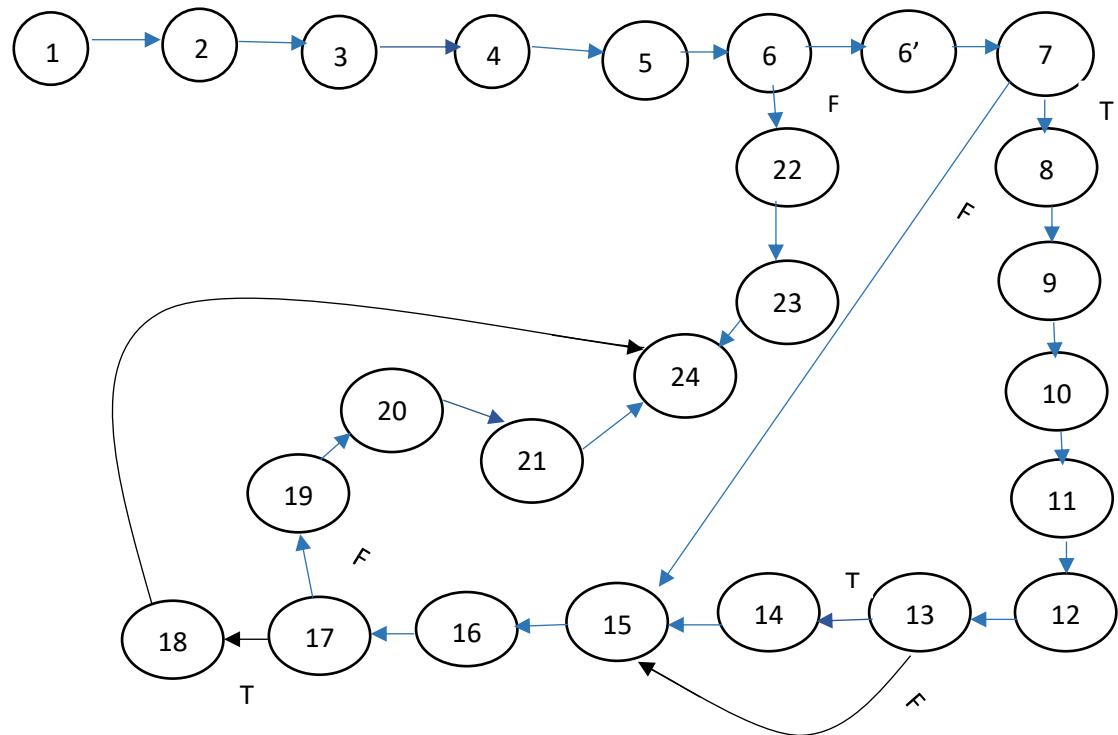
diseases = 'fever'

remarks = 'bacterial infection'

suggested\_medicine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## Condition coverage

Test case 4

If line 6, 6' number condition true,

If line 7 number condition false,

If line 17 number condition true,

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=NULL[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code= NULL is successful

Doctor inserted prescription using this secret code before.[from database]

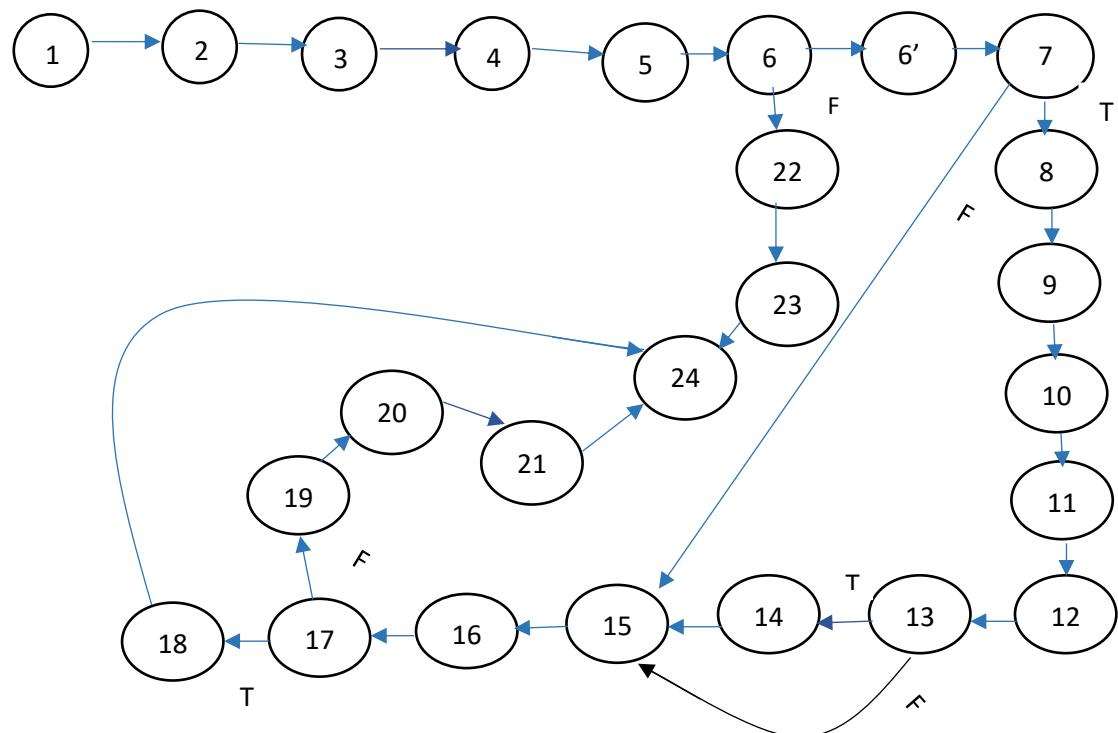
diseases = 'fever'

remarks = 'bacterial infection'

suggested\_medicine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## Condition coverage

Test case 5

If line 6, 6' number condition true,

If line 7 number condition true,

If line 13 number condition true,

If line 17 number condition true,

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful

Doctor inserted prescription using this secret code before.[from database]

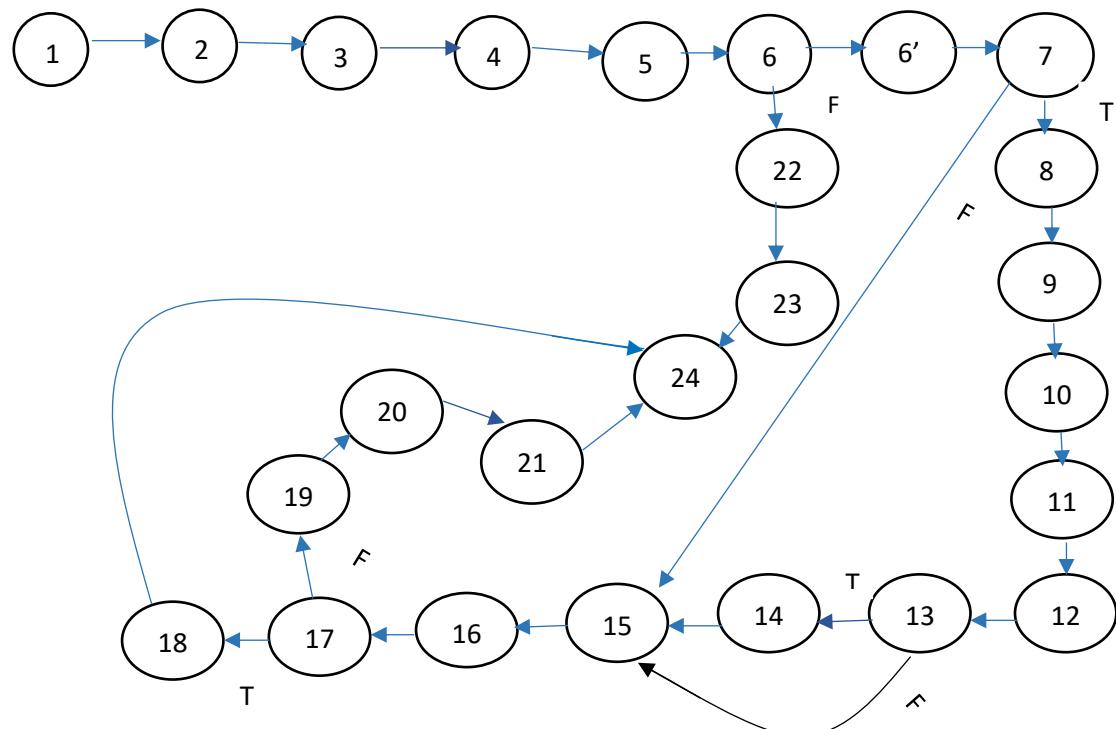
diseases = 'fever'

remarks = 'bacterial infection'

suggested\_medicine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = 2021-12-28



## Condition coverage

**Test case 6**

If line 6, 6' number condition true,

If line 7 number condition true,

If line 13 number condition false,

If line 17 number condition true,

**Doctor\_id\_receive=60229[database]**

**Secret\_code\_receive=20180[input]**

**Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful**

**Doctor inserted prescription using this secret code before.[from database]**

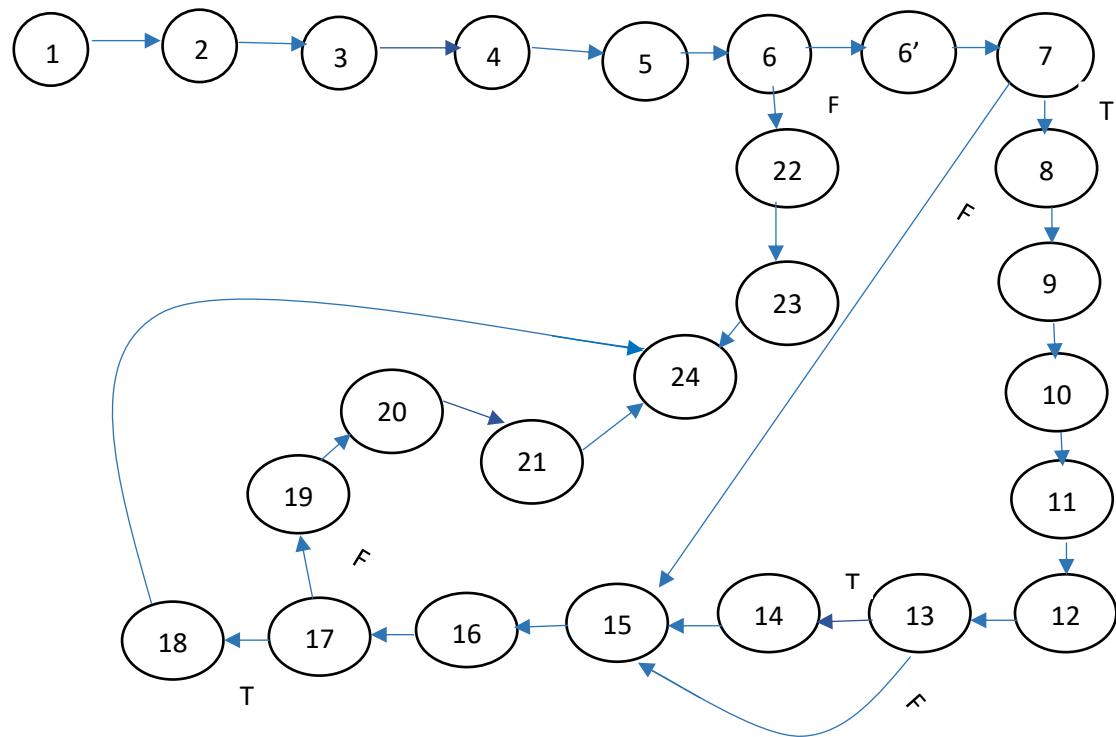
**diseases = ' fever '**

**remarks = 'bacterial infection'**

**suggested\_medicine = 'Napa extend'**

**advice = 'avoid cold water'**

**Next\_visiting\_date = NULL**



## Condition coverage

Test case 7

If line 6, 6' number condition true,

If line 7 number condition true,

If line 13 number condition false,

If line 17 number condition false,

Doctor\_id\_receive=60229[database]

Secret\_code\_receive=20180[input]

Query=selected more than 0(zero) appointment where doctor\_id=60229 AND secret\_code=20180 is successful

Doctor did not insert prescription using this secret code before.[from database]

diseases = 'fever'

remarks = 'bacterial infection'

suggested\_medicine = 'Napa extend'

advice = 'avoid cold water'

Next\_visiting\_date = NULL

