

CAPGEMINI TRAINING SPRINT PROJECT

TITLE: HEALTH CARE MANAGEMENT SYSTEM

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Problem Statement

To create a user-friendly java application for a Health Care System.

Description

The system consists of various diagnostic centers, with their own tests which the customers can opt for. The system should be accessible to two types of users, namely admin and customer. Admin has control over adding, removing and updating diagnostic centers and the tests under them.

Customer makes an appointment after selecting a proper date-time as well as the test and diagnostic center. The appointment will be confirmed only after the admin approves it.

User methods:

+Add Center (Admin)

Admin can add new centers. Center name has to be specified and the centerId will be generated automatically.

+Remove Center (Admin)

A center can be removed from the system by the admin. The center object will be removed from the centerList and then destroyed.

+Add Test(Admin)

Admin first selects a diagnostic center and then adds a new test in it.

+Remove Test(Admin)

Admin first selects a diagnostic center and then gets a list of all tests available inside the selected diagnostic center. Any test can be removed from the list and saved.

+Approve Appointment(

Admin first get list of all centers, then gets the appointmentList from that center.

Admin can then approve or reject the appointments.

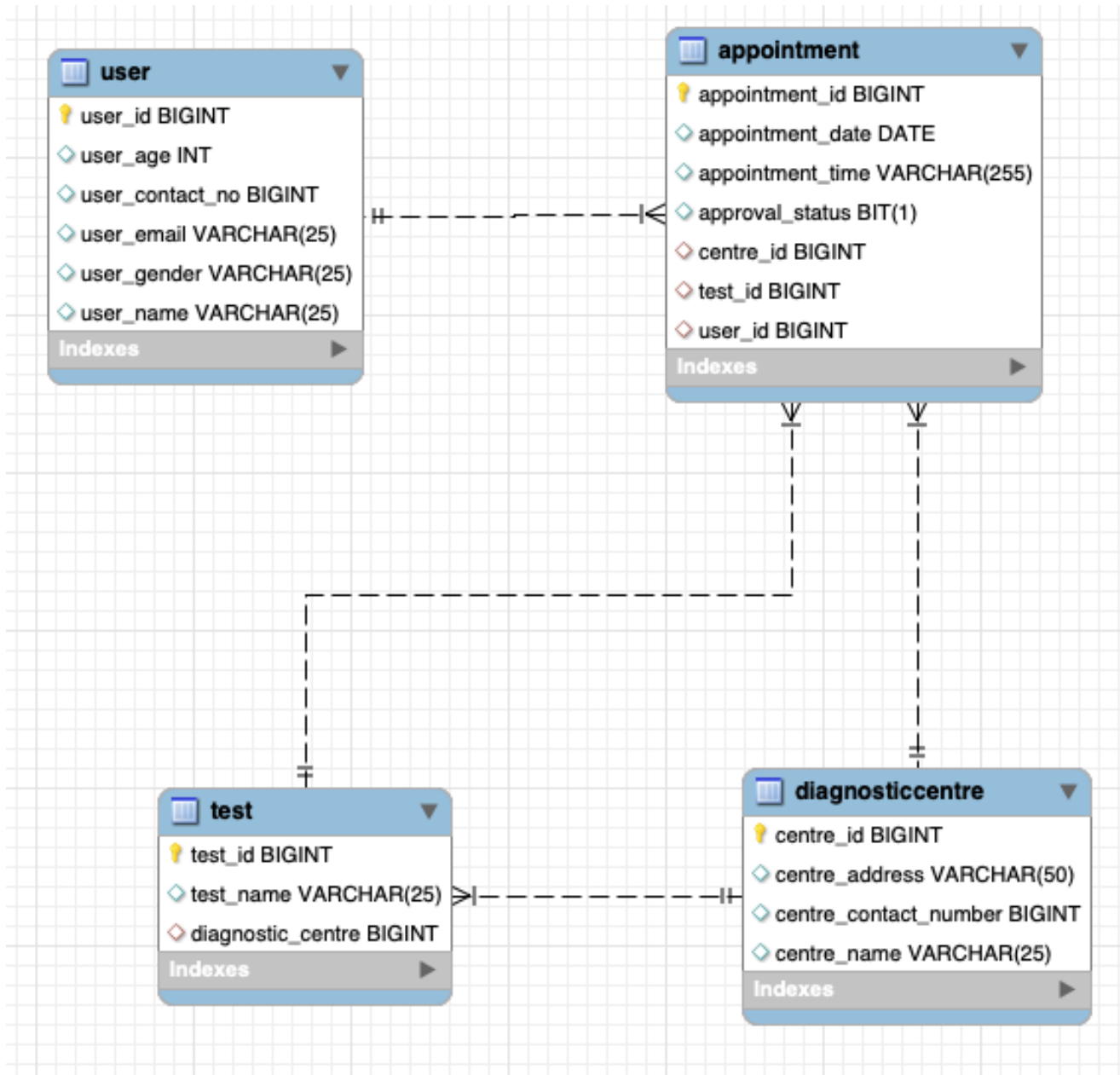
+makeAppointment(user: User, center: DiagnosticCenter, test: Test ,datetime: Datetime):BigInteger

User selects a test in a diagnostic center and books a datetime for the same. This appointment is added in the AppointmentList of the Diagnostic center the test is booked in.

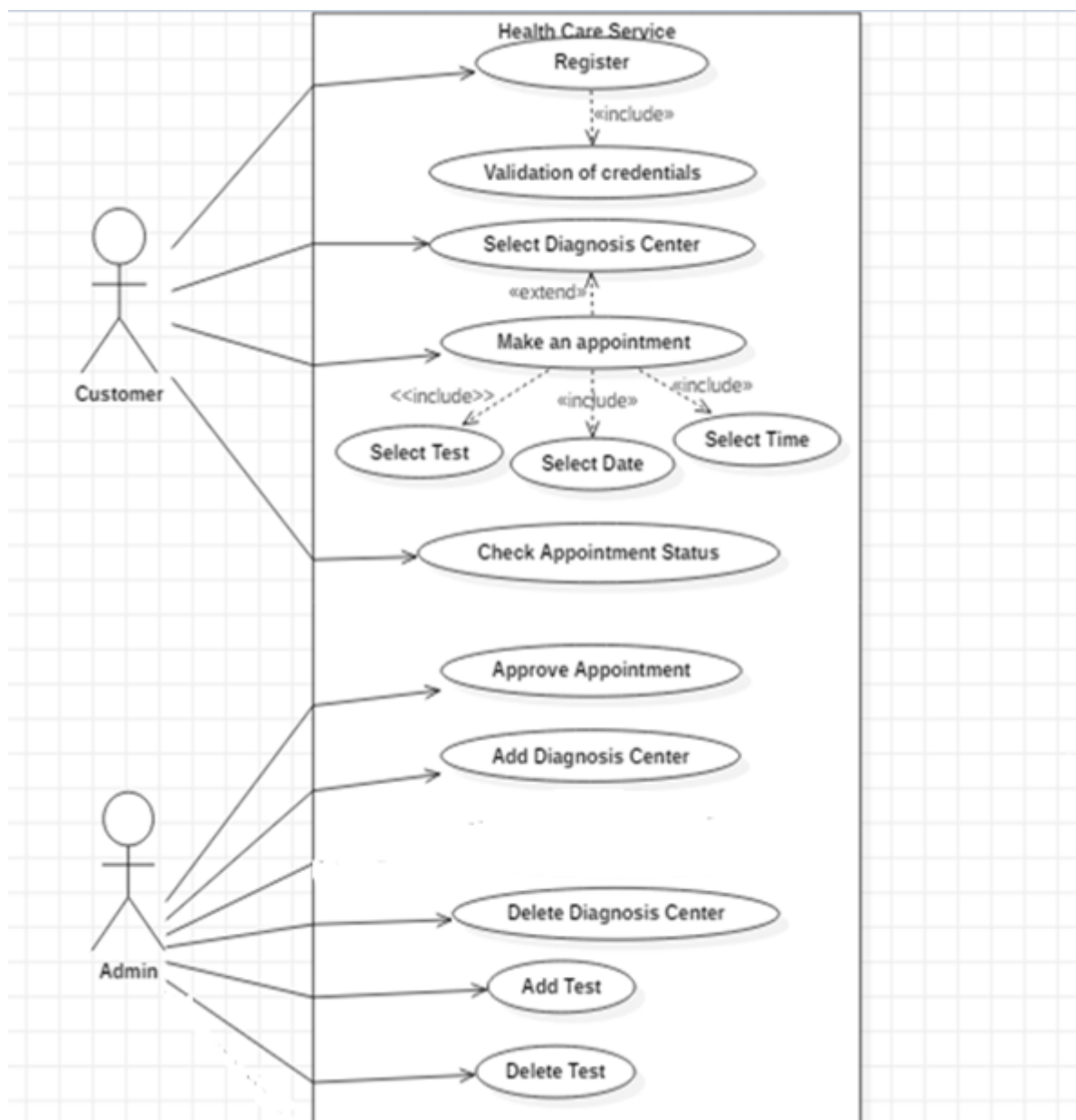
register(): String

User id is generated automatically. By default user role is set to customer.

ENTITY DIAGRAM-



USE-CASE DIAGRAM:



USER

1. REGISTER:

In Register the patient or user is going to use this page to get themselves access to it and are going to fill some details for the same. Register will be the first thing the user will perform if he/she is new to the system. After the user enters all the required details into the system, the credentials entered by the user will be verified and if all

the credentials are correct the user will be allowed to log in to the system or else the user needs to enter the correct credentials again.

2. Validation of credentials:

The credentials of the user can be verified by several ways for an example if the user is trying to connect to the system through the email id a validation url link will be send the users mentioned email id and after success full verification of email id the user will be redirected back to the system. The another way of validation of the user details could be the contact number. When the user enters his/her contact number to the system a one time password could be send to the mentioned contact number for verification and validation.

3. Select diagnostic center:

once the user has provided all the basic details and has successfully register to the system. He will now be selecting the diagnostic center in which he will get himself diagnosed at. Diagnostic center are the center in the system in which the user can select form all over the country. On selection of diagnostic center the user will get the options accordingly. Once the selection is done the user can now make an appointment which is the extension of the diagnostic center.

4. Make an appointment:

After the user has selected the diagnostic center now the user has to make an appointment which is extension of diagnostic center. The appointment consists or includes many different things. Such as

- I) Select test
- II) Select date
- III) Select time

I) Select test

The test is the option which the user has to fill in order to make the appointment. Out of the available test in the diagnostic center the user has to select one. Consider for an example as selecting as blood test.

I) Select date

After the user has selected the test he want to under go in order to make an appointment now the user needs to enter the date on which the user is suppose to get the appointment. The format will already be present on which date to select.

I) Select time

Now the user has entered the test which he want to undergo and also the date on which he want to undergo the test now the only thing that the user is left to enter is the time on which he wishes to get his test done to make an appointment.

Once the user has filled all the required filled to make an appointment then he can just go and click on the submit button to make an appointment to the system. This much is the options the user is suppose to fill to make the appointment.

5. Check appointment Status:

Now when user has filled all the details and send the request the only thing he needs to do it the check the appointment status before actually going to appointment to make the desired test. According to the availability of the admin the approval status of the appointment will be shown to the user. In check appointment status the user can check the status of the of the appointment he requested in the system.

ADMIN

6. Approve Appointment:

In this the admin can approve and decline the appointment request if the user as per the condition. For example if the doctor is free at the moment when the user requested the appointment the admin is going to approve the request and then the user can go to the center to get the test which he want to undergo. In the case when the doctor is busy at the time of the requested appointment of the user the admin can decline the request and the user can again request for the appointment again at another day or time.

7. Add diagnostic center.

The admin can also add the diagnostic center In which the user can come to get there test done. The add diagnostic center option can be used as the system gets more and more center up and running and this will also be able to add center to the system incrementally.

Adding diagnostic center increases the availability of system to better serve the users.

8. Delete diagnostic center:

The admin has the access to delete the diagnostic center which run out of operations or are not being used generally. The access allows the admin to delete the center which is no longer functioning or is in capable to perform the desired task.

9. Add test:

The admin can also add the test In which the user can come to get a new test done .

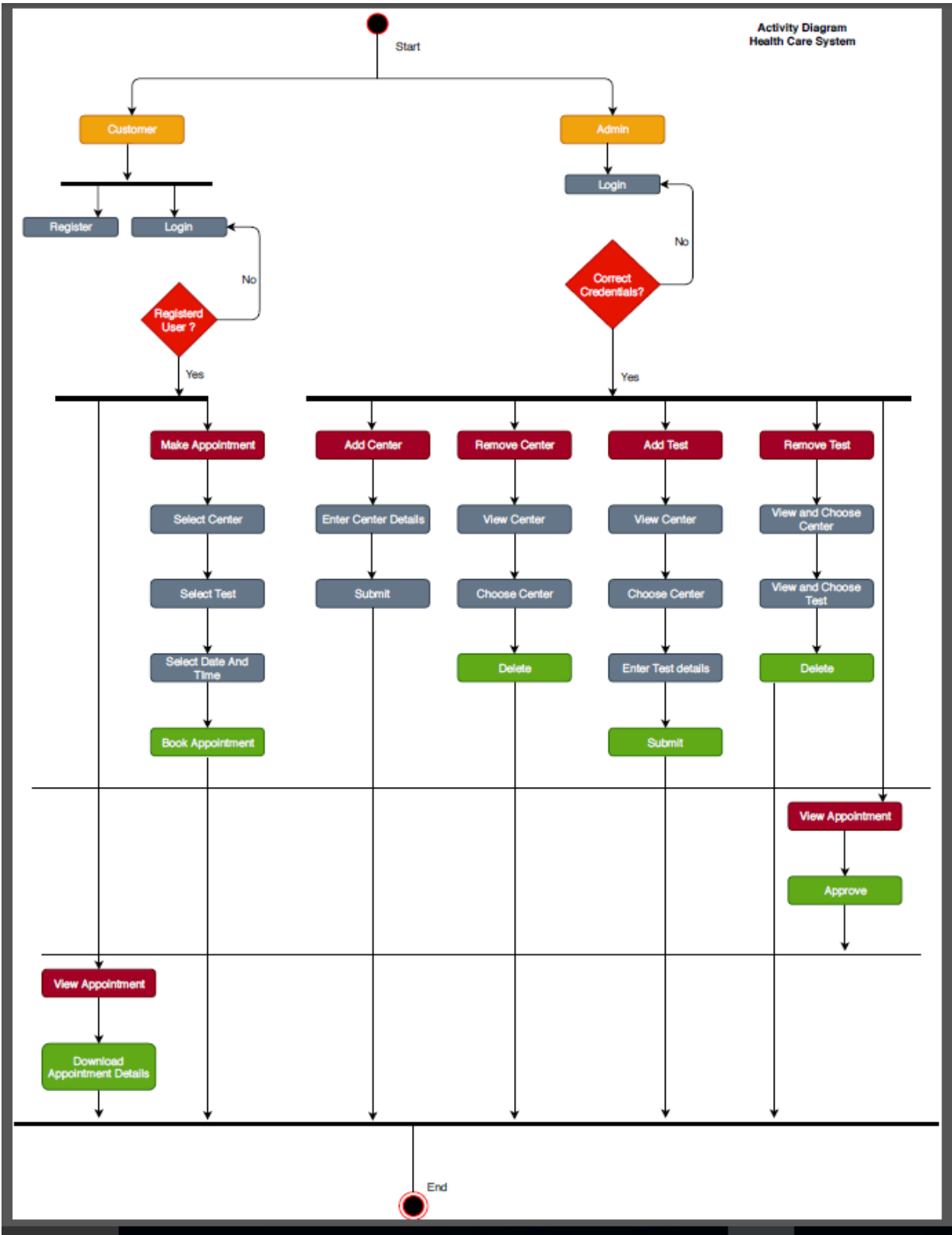
The add test option can be used as the system gets more and more center up and running and this will also be able to add center to the system incrementally.

Adding test increases the availability of system to better serve the users.

10.Delete test:

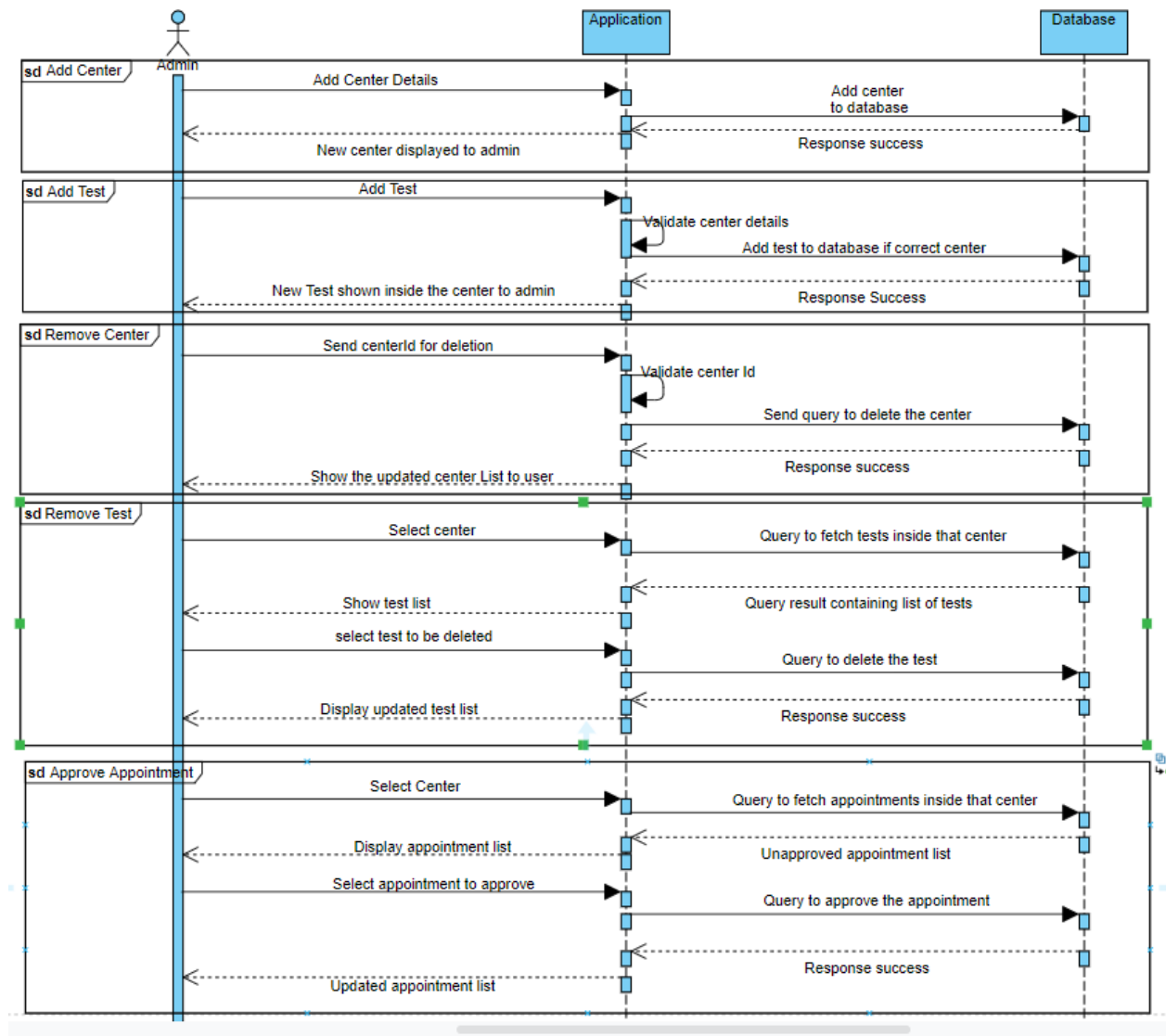
The admin has the access to delete the test which run out of operations or are not being used generally. The access allows the admin to delete the test which is no longer functioning or is in capable to perform the desired task or is outdated.

ACTIVITY DIAGRAM -

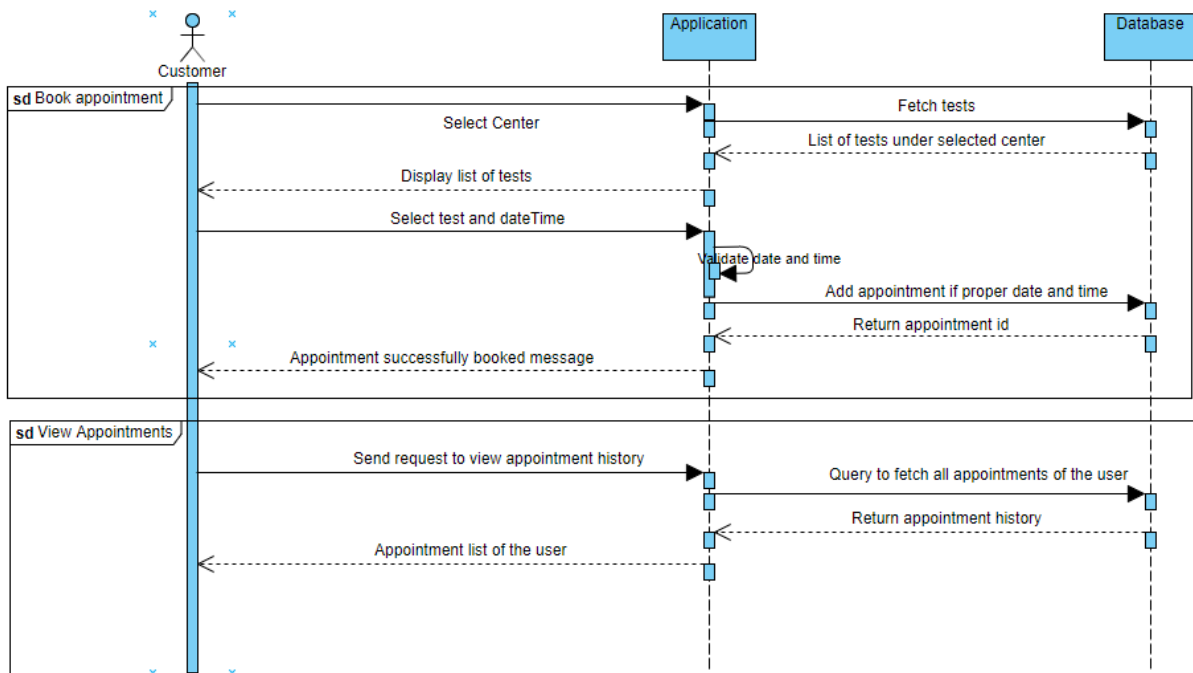


SEQUENCE DIAGRAM-

ADMIN

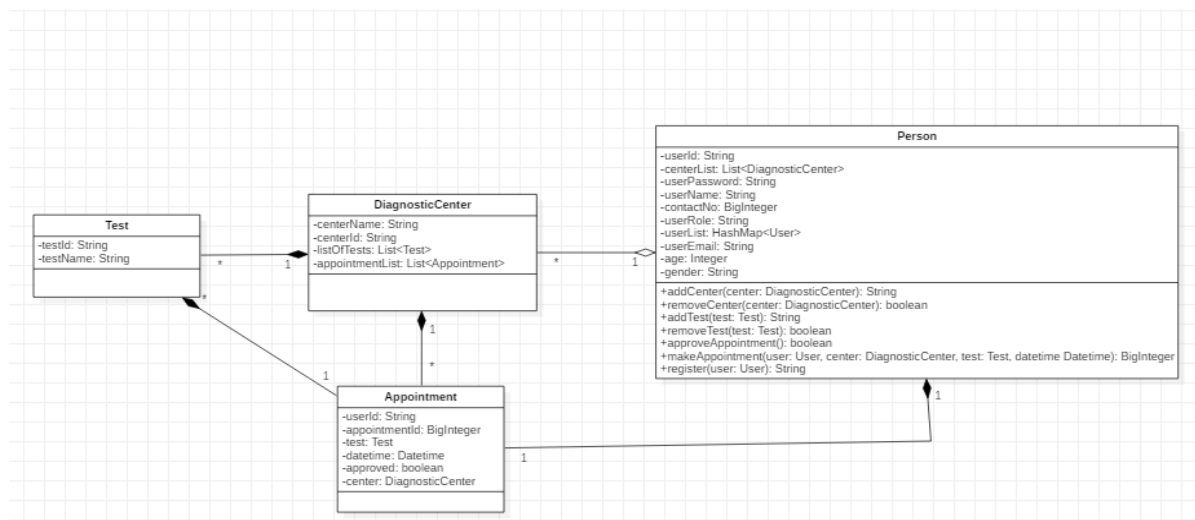


CUSTOMER -

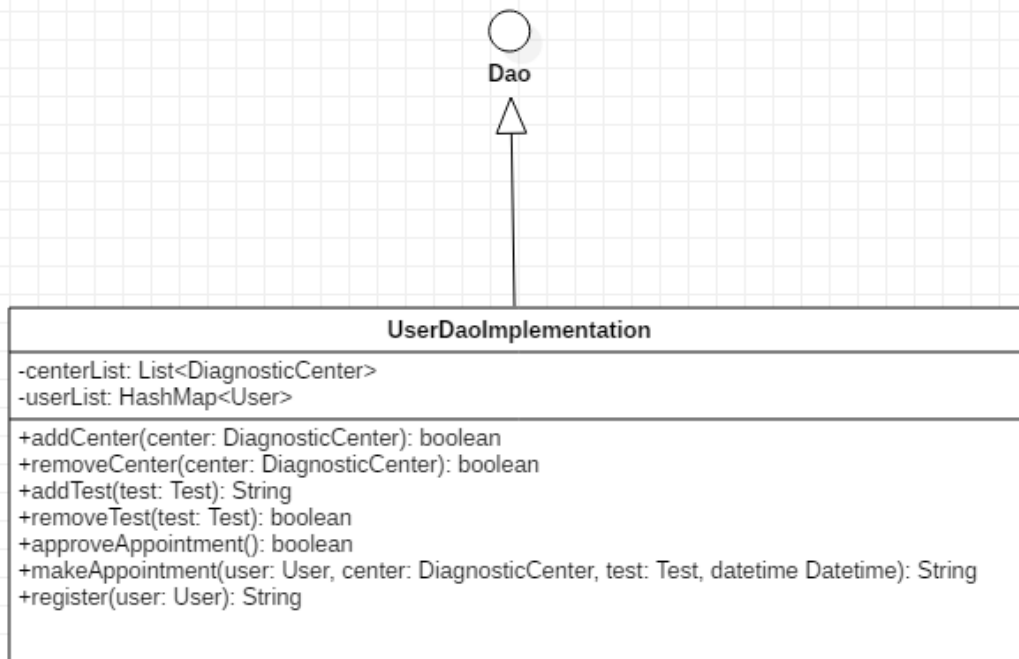


CLASS DIAGRAM-

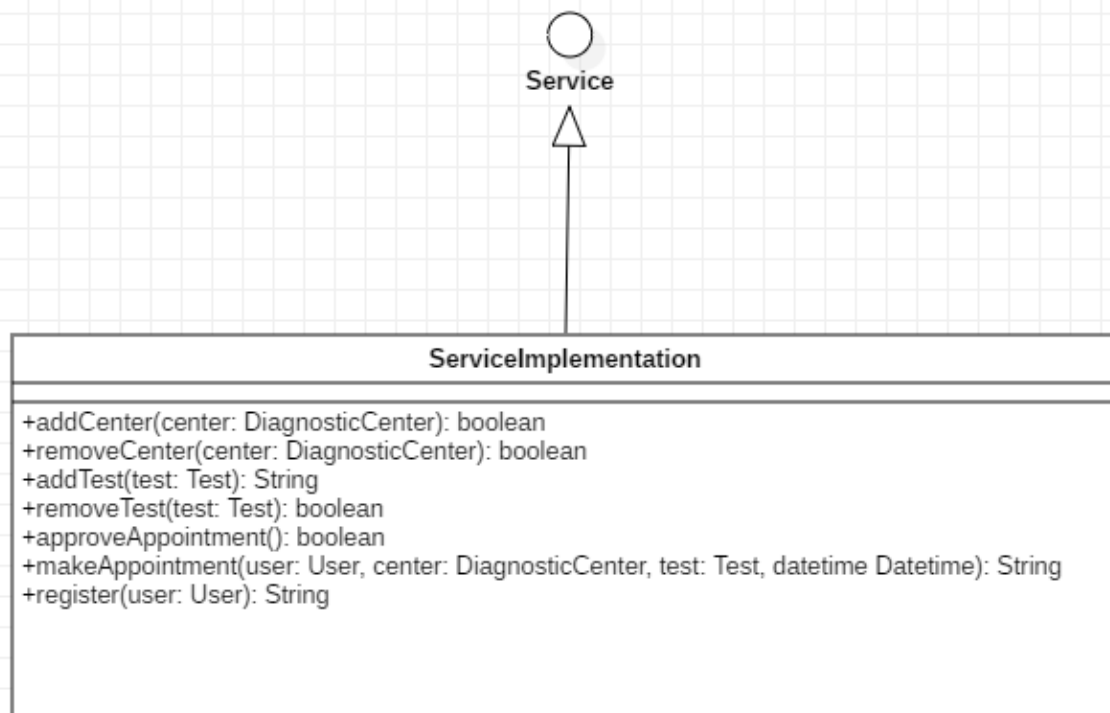
DTO



DAO



SERVICE



WebService URL Details-

- <http://localhost:4200/getAppointment>- to get appointment list
- <http://localhost:4200/getUser> - To get the list of users
- <http://localhost:4200/getTest>- To get the list of test
- <http://localhost:4200/addTest> - To add test
- <http://localhost:4200/deleteTest/{testId}> - To delete test
- <http://localhost:4200/viewtestbyid/{testId}> - To get the list of test by id
- <http://localhost:4200/getCentre> - To get the list of centre
- <http://localhost:4200/addCentre> - To add centre
- <http://localhost:4200/deleteCentre/{centreId}> - To delete centre
- <http://localhost:4200/updateCentre/{centreId}> - To update centre already present
- <http://localhost:4200/viewcentrebyid/{centreId}> - To get the list of centre by id