



Team 1:

Amós Helí Olguín Quiróz	247103
Jullian Herlenn Puerta	248239
Daniel Salvador Duran	204149
Isaac Andre Arellano Alvarez	229842

MySQL databas configuration:

Install MySQL: If you don't have MySQL installed yet, download and install it from the official MySQL website (<https://www.mysql.com/>).

Create a database: Use the MySQL client to create a new database named "hospital".

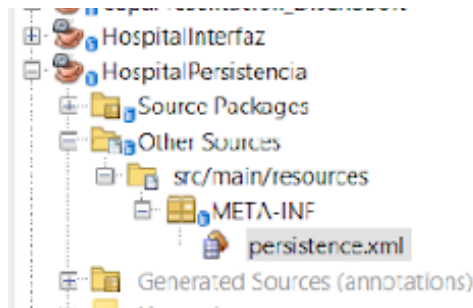
Create tables: Execute the provided SQL scripts in the project to create the necessary tables in the "hospital" database.

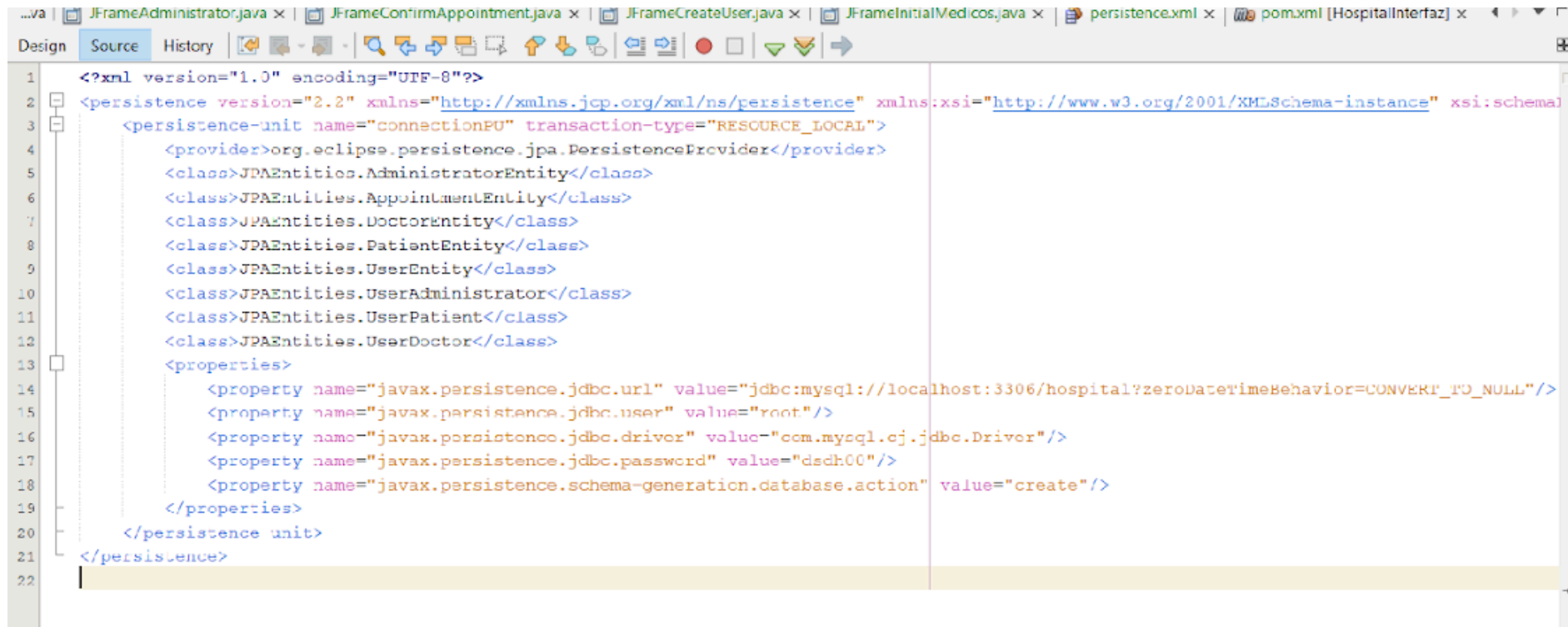
Project configuration:

Download the project: Download the hospital project from the provided location.

Import the project: Import the project into your preferred IDE (Eclipse, IntelliJ, NetBeans, etc.).

Configure the database connection: Open the persistence configuration file (persistence.xml) and ensure that the database connection parameters are correctly configured. The important values to verify are the database URL, username, and password.





```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <persistence version="2.2" xmlns="http://xmlns.jcp.org/xml/ns/persistence" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/persistence http://xmlns.jcp.org/xml/ns/persistence/persistence.xml">
3   <persistence-unit name="connectionPU" transaction-type="RESOURCE_LOCAL">
4     <provider>org.eclipse.persistence.jpa.PersistenceProvider</provider>
5     <class>JPAEntities.AdministratorEntity</class>
6     <class>JPAEntities.AppointmentEntity</class>
7     <class>JPAEntities.DoctorEntity</class>
8     <class>JPAEntities.PatientEntity</class>
9     <class>JPAEntities.UserEntity</class>
10    <class>JPAEntities.UserAdministrator</class>
11    <class>JPAEntities.UserPatient</class>
12    <class>JPAEntities.UserDoctor</class>
13    <properties>
14      <property name="javax.persistence.jdbc.url" value="jdbc:mysql://localhost:3306/hospital?zeroDateTimeBehavior=CONVERT_TO_NULL"/>
15      <property name="javax.persistence.jdbc.user" value="root"/>
16      <property name="javax.persistence.jdbc.driver" value="com.mysql.cj.jdbc.Driver"/>
17      <property name="javax.persistence.jdbc.password" value="dsdh00"/>
18      <property name="javax.persistence.schema-generation.database.action" value="create"/>
19    </properties>
20  </persistence-unit>
21 </persistence>
22
```

Project Execution:

Compile the project: Compile the project in your IDE to ensure there are no compilation errors.

Run the project: Run the project from your IDE. This can be done through an application server like Tomcat, or simply by executing the Java application if it's a console application.

Test the functionality: Once the project is running, test the functionality to ensure everything is working correctly. You can test user creation, appointment management, patient search, etc.

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Administrator

Login	1.0
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Patient Registration

1.0 - Once in the main page click in the “register” text, this will take you to another page.

 Login

Hospital General


Login

Username


Password

Login

New? [Register](#)



1.2 - Navigate to the patient registration section. Here you will provide your username and password, which will be used for login later on.

— □ ×

General Hospital

Register User


Username

Password

Cancel

Register

1.3 - Fill out the required information, such as name, address, contact details, etc. Then click “Accept”.

 Registro Paciente


Hospital General

Register Patient

Names
Oscar

First Last Name
Lopez

Second Last Name
Perea

Birth Date
May 16, 2024

Sex
☒ Male ☐ Female ☐ Other

Other

Insurance Number
123321

Zipcode
85190

Colony
Mexico


Street
San Lucas

Phone Number
6441679238

CURP
ASBC120982LOP

Accept

1.4 - Once you “Accept” this will return you to the main page, where you can Login.

 Login

Hospital General


Login

Username

Password


Login

New? [Register](#)



Login

2.0 - Once on the main page, submit your credentials, then proceed to click “Login”

 Login

Hospital General


Login

Username

Password

[Login](#)

New? [Register](#)



2.0.1 - If any of the fields are blank you will have a Error

Login

Hospital General


Login

Username

Password

New? [Register](#)

Error



Fields can't be blank

Hospital General

Login

Username

Password

Login

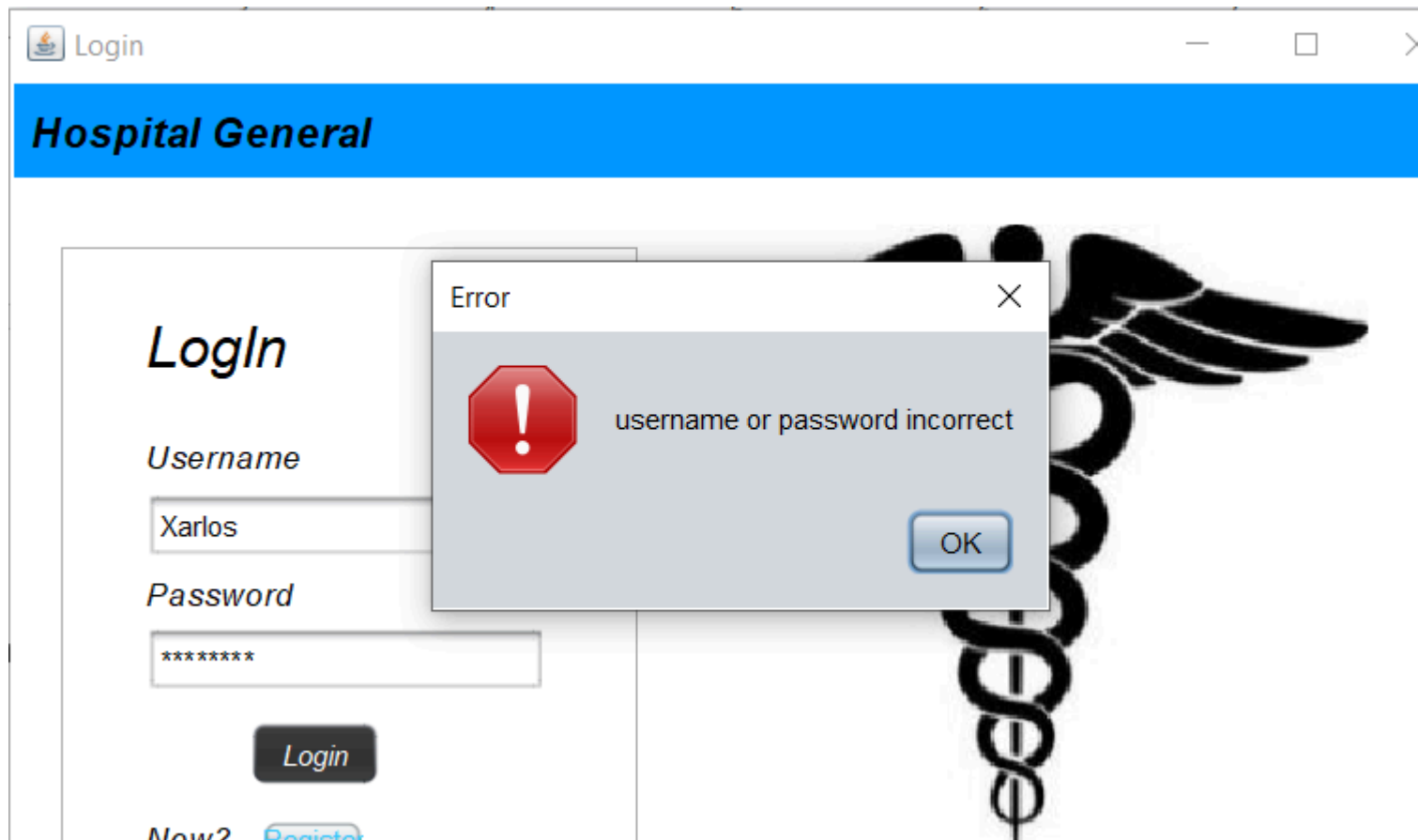
Error



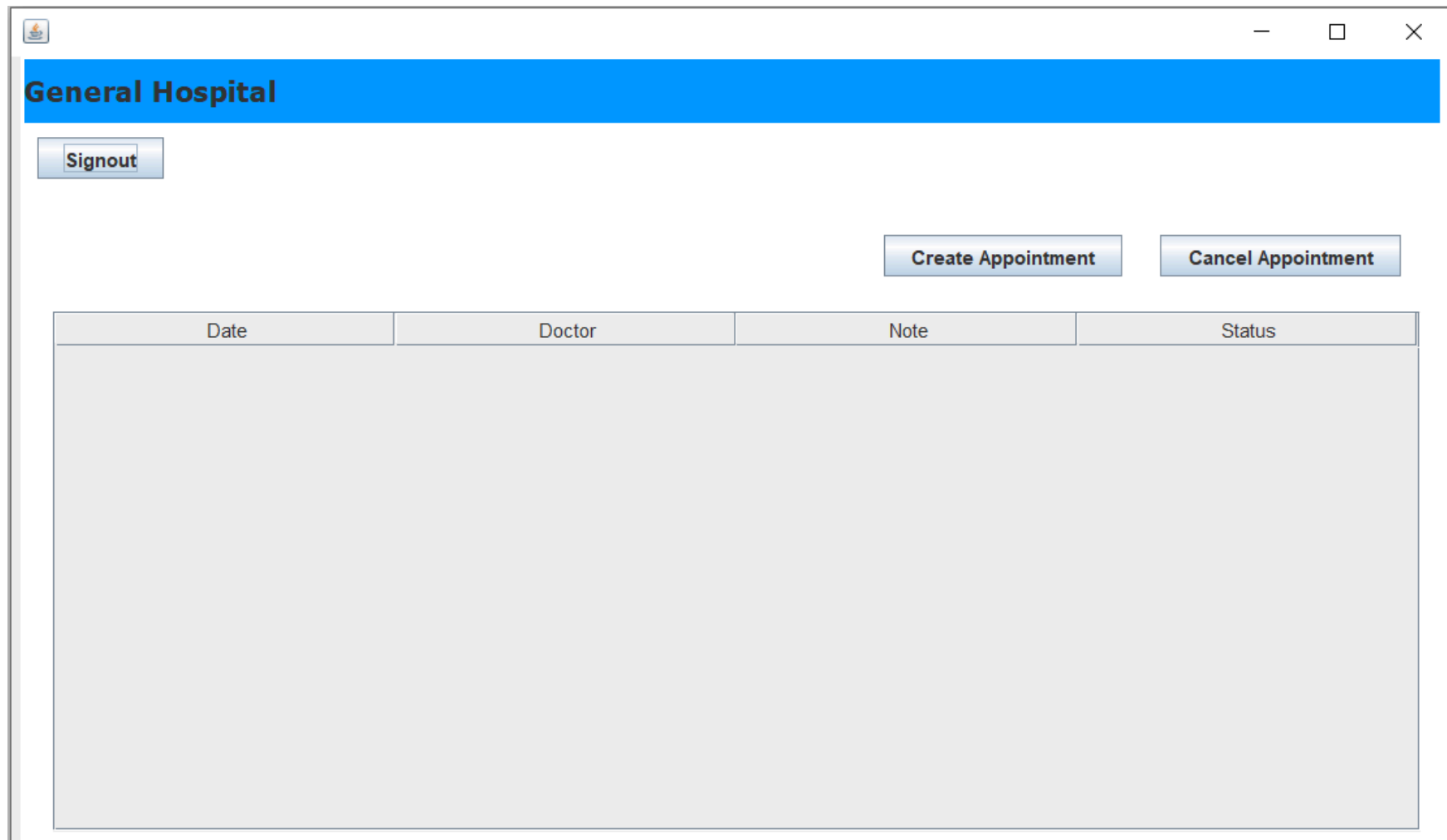
Fields can't be blank

OK

2.0.2 - If the password/username are incorrect or non existent you will get a error message



2.1 - Once you submit the correct credentials, you will be redirected to your corresponding homepage.

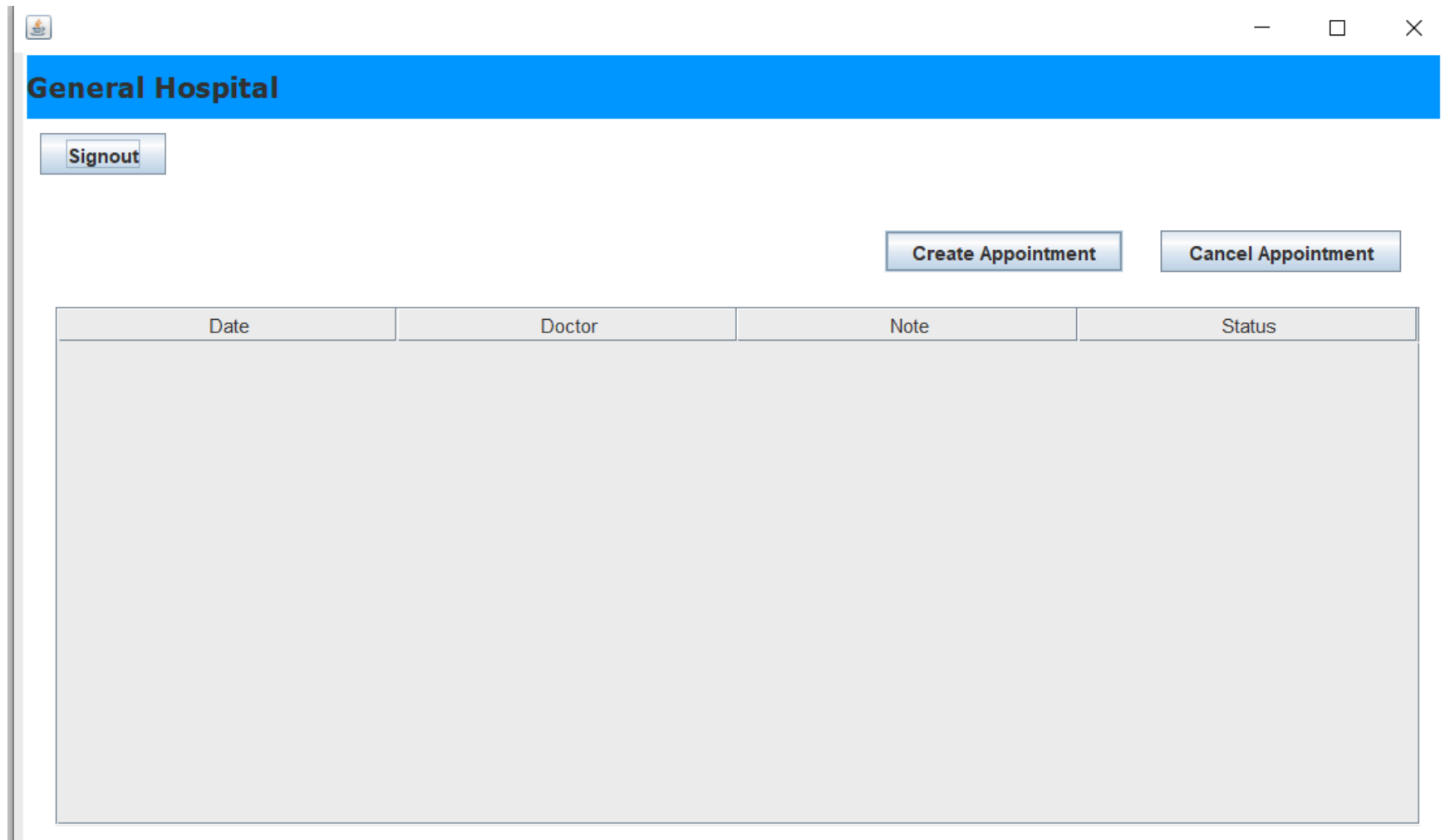


The screenshot shows a web application interface for "General Hospital". At the top, there is a blue header bar with the text "General Hospital". Below the header, on the left, is a "Signout" button. On the right, there are two buttons: "Create Appointment" and "Cancel Appointment". Below these buttons is a table with four columns: "Date", "Doctor", "Note", and "Status". The table is currently empty, showing only the header row.

Date	Doctor	Note	Status
------	--------	------	--------

Creating an appointment.

3.0 - Once logged in (point 2.0) , click on “Create Appointment”, this will redirect you to a different page.



The screenshot shows a web application window titled "General Hospital". The interface includes a "Signout" button on the left and two buttons, "Create Appointment" and "Cancel Appointment", on the right. Below these buttons is a table with four columns: "Date", "Doctor", "Note", and "Status". The table body is currently empty.

Date	Doctor	Note	Status
------	--------	------	--------

3.1 - Here you will select the specialization of the doctor you're trying to go to.

General Hospital

Register Appointment

Specialization

PSYCHIATRY ▼

FAMILY

PEDIATRIC

SURGERY

PSYCHIATRY

ANESTHIOLOGY

CARDIOLOGY

Doctors

▼

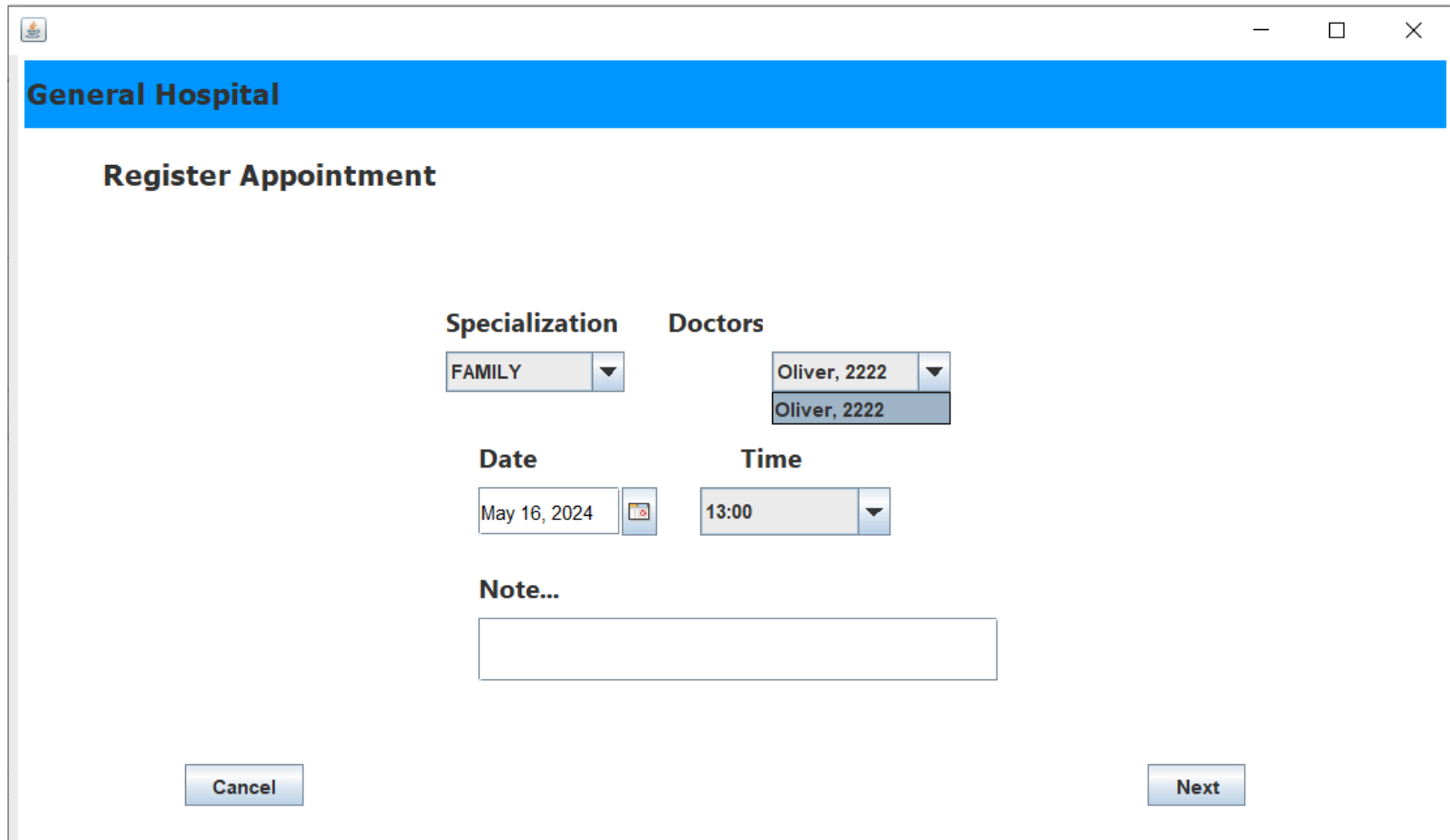
Time

13:00 ▼

Note...

Cancel **Next**

3.2 - Once this is selected, you will be provided with the doctor available



The screenshot shows a software window titled "General Hospital" with a blue header bar. Below the header, the text "Register Appointment" is displayed. The form contains several input fields: "Specialization" with a dropdown menu showing "FAMILY"; "Doctors" with a dropdown menu showing "Oliver, 2222" and a list of "Oliver, 2222" below it; "Date" with a text box showing "May 16, 2024" and a calendar icon; and "Time" with a text box showing "13:00" and a dropdown arrow. Below these fields is a "Note..." label and a large empty text area. At the bottom, there are "Cancel" and "Next" buttons.

General Hospital

Register Appointment

Specialization


FAMILY ▼

Doctors

Oliver, 2222 ▼

Oliver, 2222

Date

May 16, 2024 


Time

13:00 ▼

Note...

Cancel **Next**

3.3 - Select the date.



—

□

×

General Hospital

Register Appointment

Specialization

FAMILY

▼


Doctors

Oliver, 2222

▼

Date

May 16, 2024



Time

13:00

▼

May

▼

2024

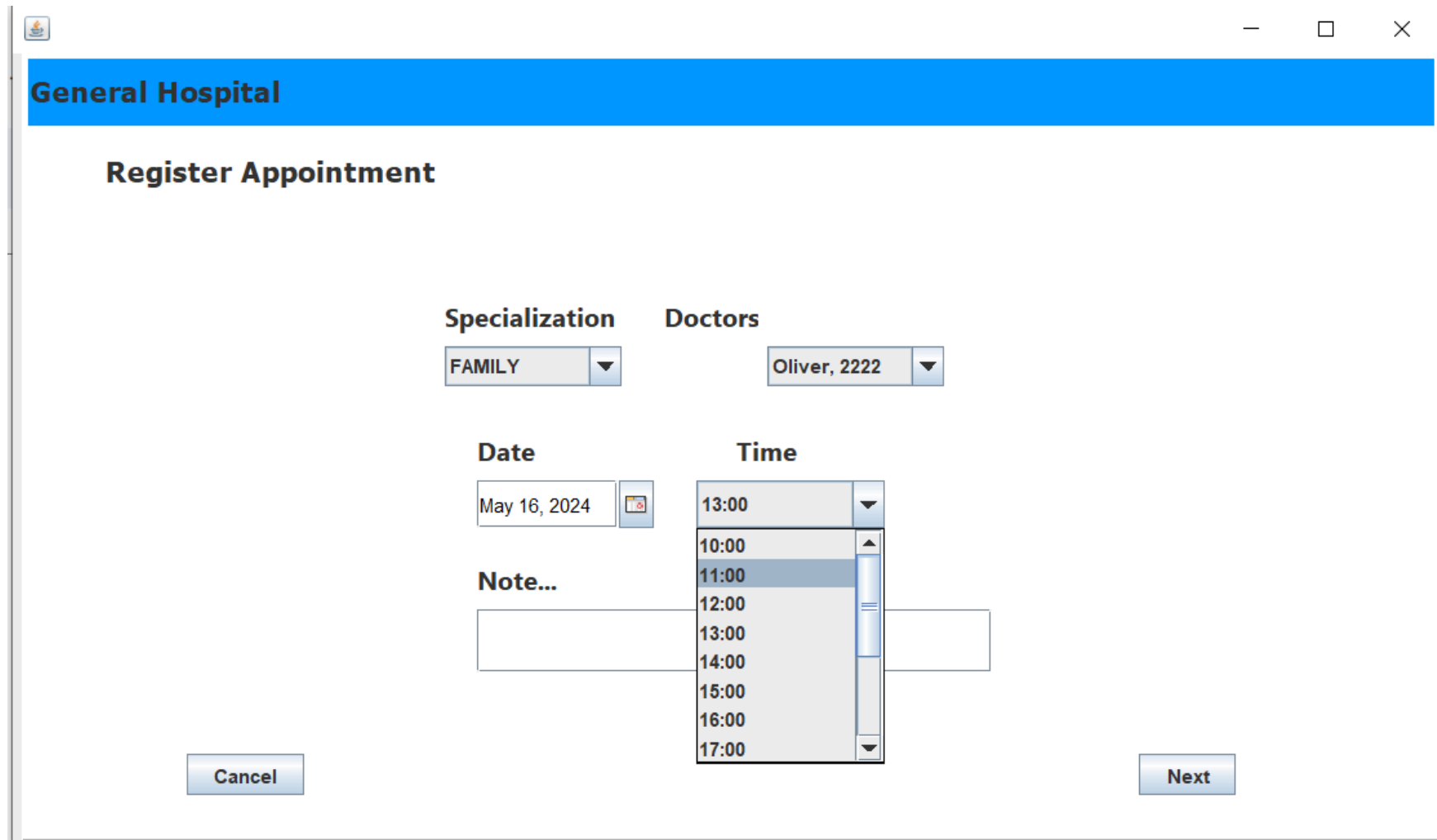
▼

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
18				1	2	3	4
19	5	6	7	8	9	10	11
20	12	13	14	15	16	17	18
21	19	20	21	22	23	24	25
22	26	27	28	29	30	31	

Cancel

Next

3.4 - Select the time which is in military hours.



The image shows a software window titled "General Hospital" with a subtitle "Register Appointment". The window contains several input fields and buttons. At the top, there is a blue header bar with the text "General Hospital". Below this, the title "Register Appointment" is displayed. The main area contains two columns of input fields. The first column is labeled "Specialization" and has a dropdown menu with "FAMILY" selected. The second column is labeled "Doctors" and has a dropdown menu with "Oliver, 2222" selected. Below these, there is a "Date" field with "May 16, 2024" and a "Time" field with a list of times from 10:00 to 17:00. The "Time" field is currently showing 13:00. To the left of the "Time" field is a "Note..." label and a text input field. At the bottom left is a "Cancel" button and at the bottom right is a "Next" button.

General Hospital

Register Appointment

Specialization
FAMILY ▼

Doctors
Oliver, 2222 ▼

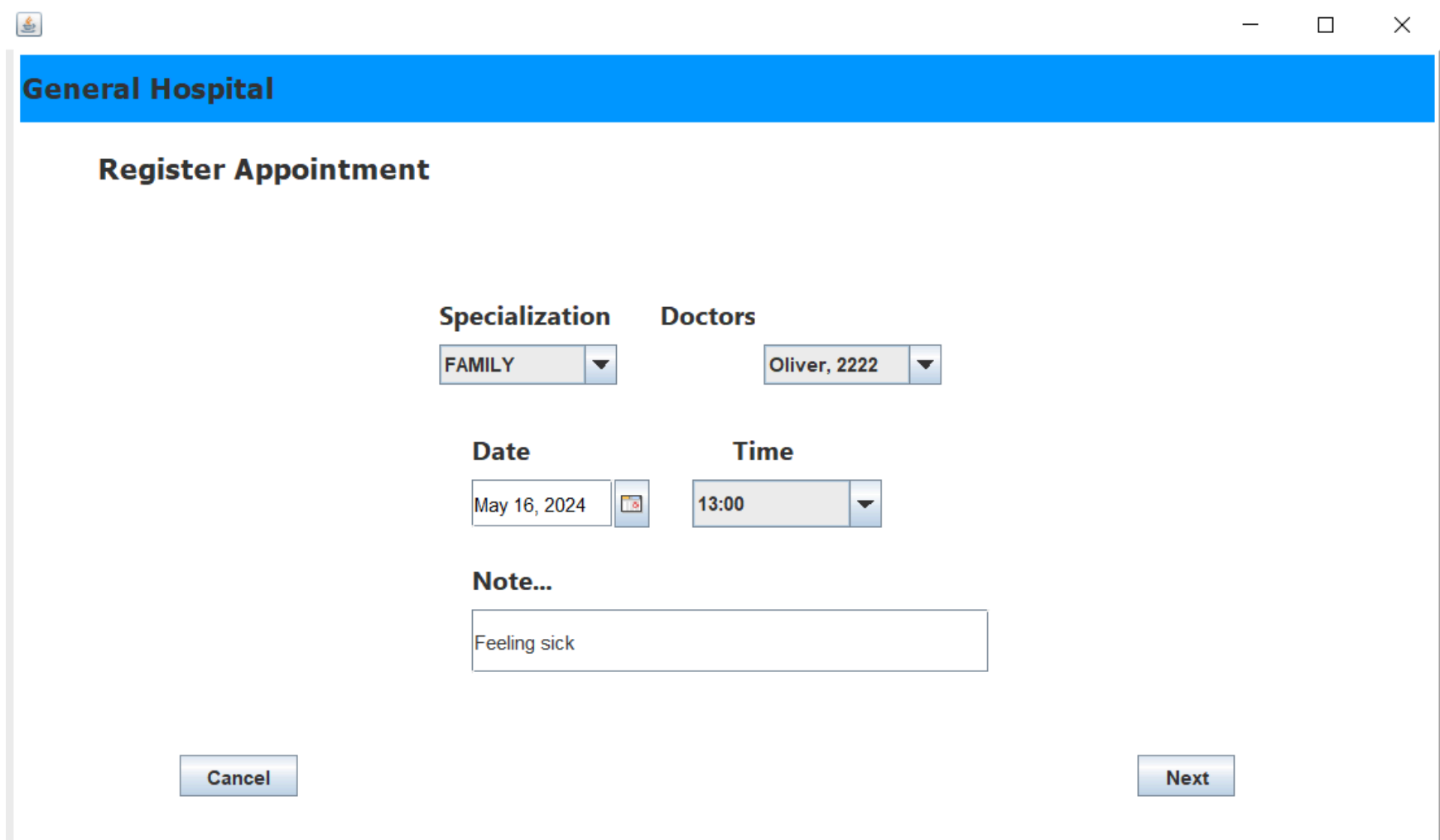
Date
May 16, 2024

Time
13:00 ▼
10:00 ▲
11:00
12:00
13:00
14:00
15:00
16:00
17:00 ▼

Note...
[Text Input Field]

Cancel **Next**

3.5 - You have the option to make a note for your doctor. Once you filled the information click “Next”



The screenshot shows a software window titled "General Hospital" with a blue header bar. Below the header, the text "Register Appointment" is displayed. The form contains several input fields: "Specialization" with a dropdown menu showing "FAMILY", "Doctors" with a dropdown menu showing "Oliver, 2222", "Date" with a text box showing "May 16, 2024" and a calendar icon, and "Time" with a dropdown menu showing "13:00". Below these fields is a "Note..." section with a text box containing "Feeling sick". At the bottom of the window are two buttons: "Cancel" on the left and "Next" on the right.

General Hospital

Register Appointment

Specialization **Doctors**

FAMILY Oliver, 2222

Date **Time**

May 16, 2024 13:00

Note...

Feeling sick

Cancel Next

3.6 - Once you click “Next”, you will have a confirmation page. If everything is correct click “confirm” otherwise you can click “Edit” to edit your appointment (this will allow you to do everything from point 3.1 - 3.5)



Hospital General

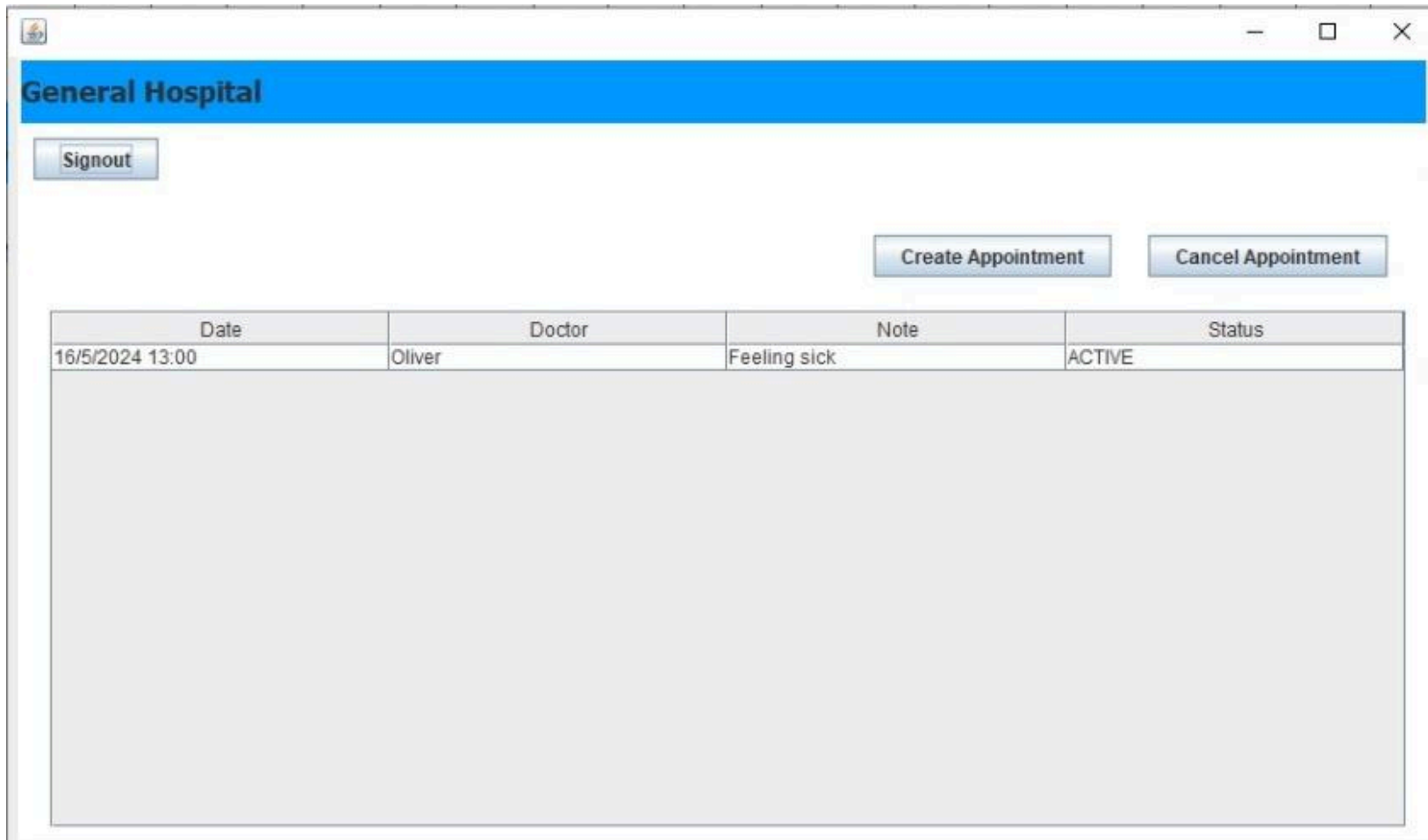
Confirm Appointment

Name	Oscar
Doctotor	Oliver
Date	16/5/2024 13:00
Specialization	FAMILY
Note	Feeling sick

Edit

Confirm

3.7 - If you click “confirm” this will take you to your homepage, and the appointment you made will be there, this will give the details of your appointment, the status field represents if your appointment is still active or it has been canceled.



General Hospital

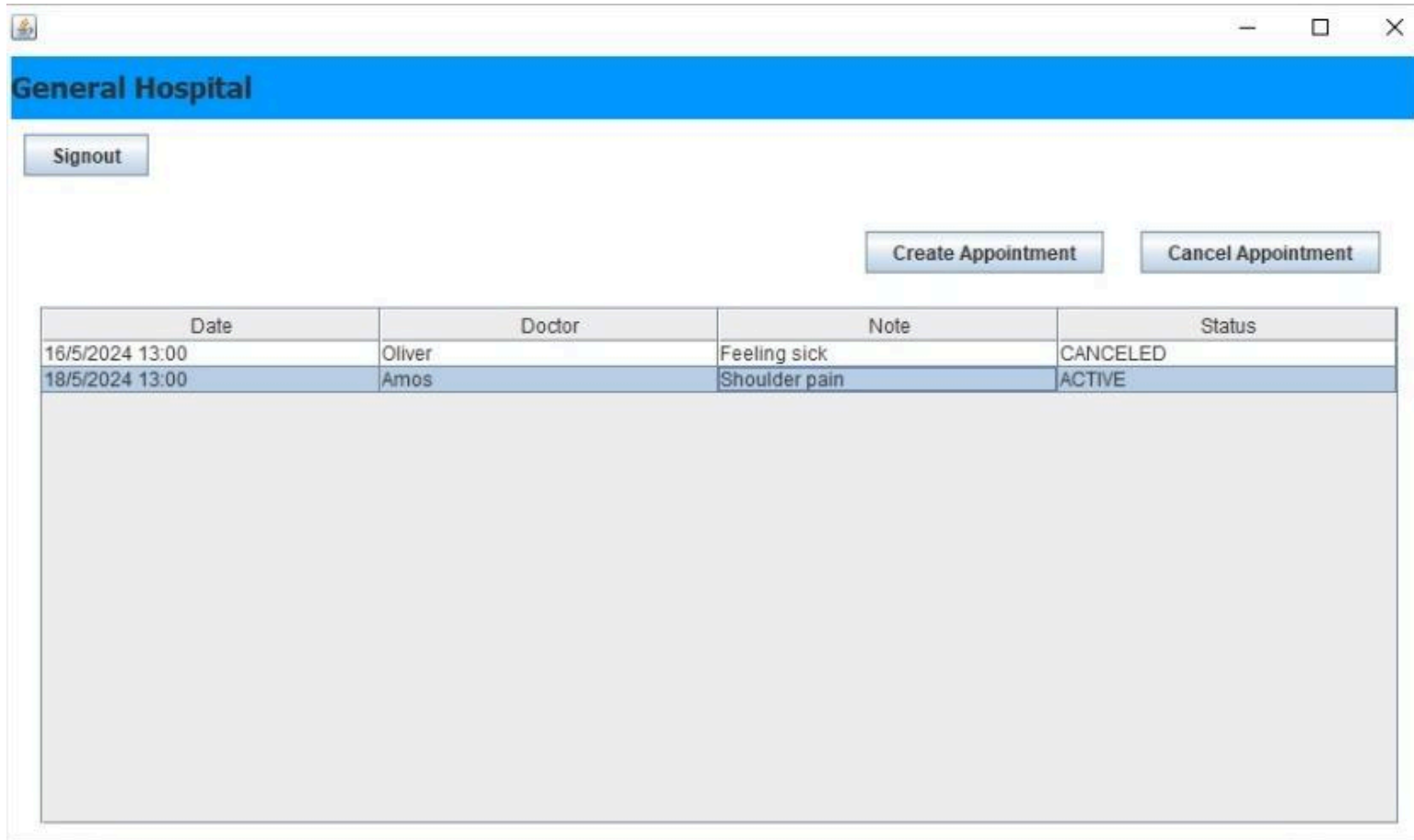
Signout

Create Appointment Cancel Appointment

Date	Doctor	Note	Status
16/5/2024 13:00	Oliver	Feeling sick	ACTIVE

Cancel your appointment

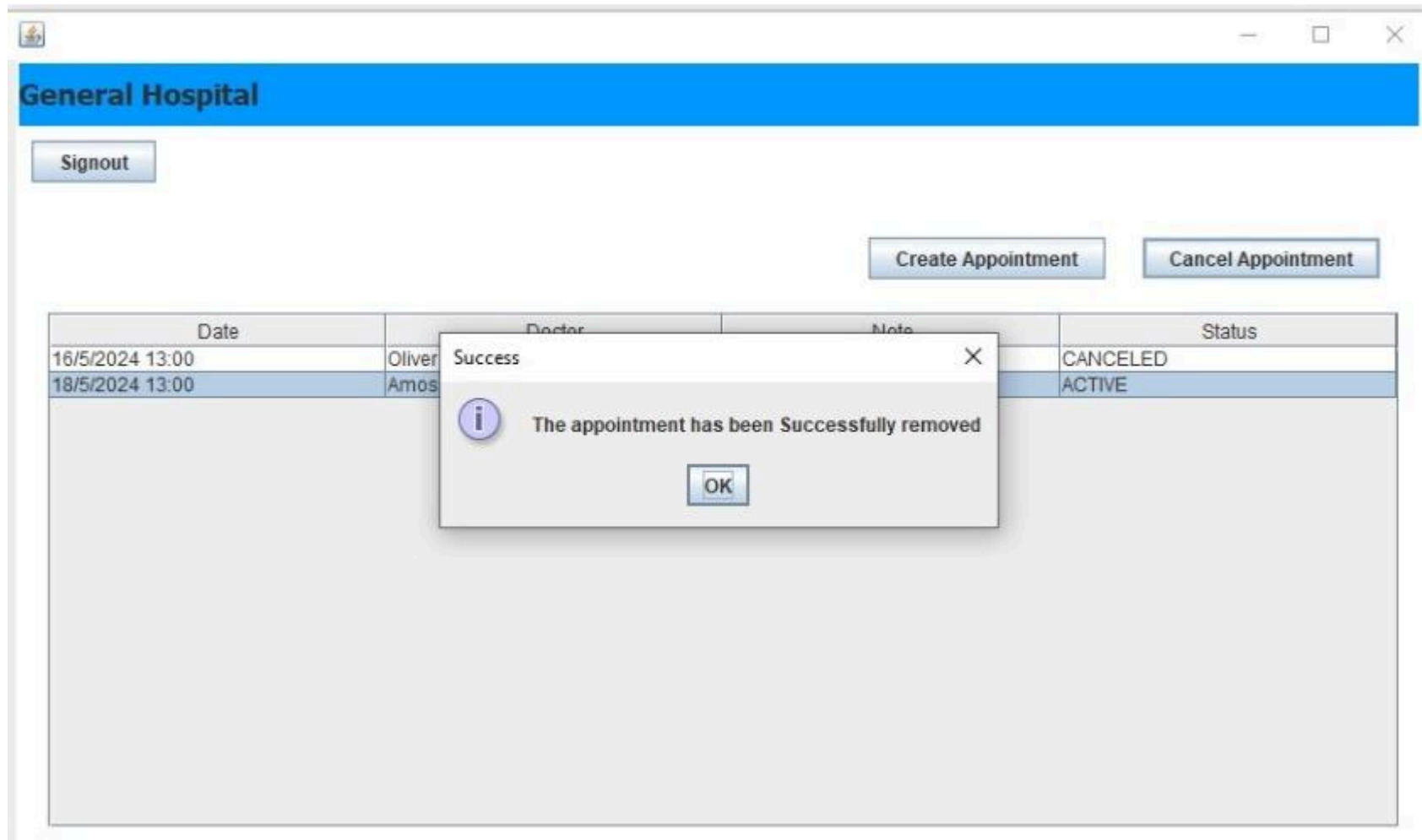
4.0 - Click over the appointment you want to cancel (this will be the one highlighted in blue). Then click “Cancel Appointment”



The screenshot shows a web application window titled "General Hospital". It features a "Signout" button on the left and two buttons, "Create Appointment" and "Cancel Appointment", on the right. Below these buttons is a table with four columns: "Date", "Doctor", "Note", and "Status". The table contains two rows of data. The second row, representing an appointment on 18/5/2024 at 13:00 with Doctor Amos for "Shoulder pain" with an "ACTIVE" status, is highlighted in blue. The first row, representing an appointment on 16/5/2024 at 13:00 with Doctor Oliver for "Feeling sick" with a "CANCELED" status, is not highlighted.

Date	Doctor	Note	Status
16/5/2024 13:00	Oliver	Feeling sick	CANCELED
18/5/2024 13:00	Amos	Shoulder pain	ACTIVE

4.1 - Once 4.0 is done, you will have a confirmation on your cancellation.

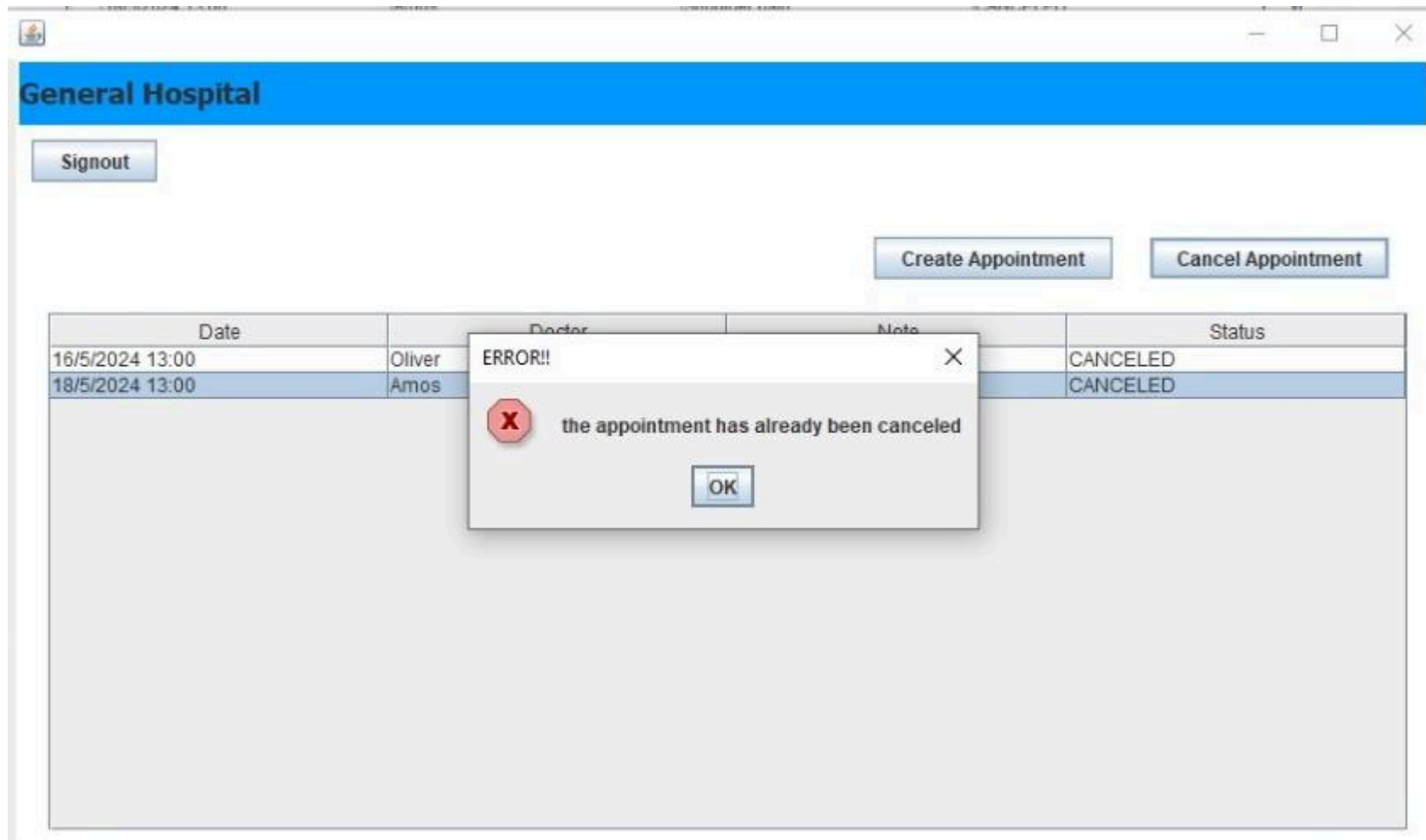


4.2 - Once 4.1 is done, click “Ok”, and the status of your appointment will change to “CANCELED”

The screenshot shows a web application window titled "General Hospital". It features a "Signout" button in the top left and two buttons, "Create Appointment" and "Cancel Appointment", in the top right. Below these buttons is a table with four columns: "Date", "Doctor", "Note", and "Status". The table contains two rows of data, both with a status of "CANCELED".

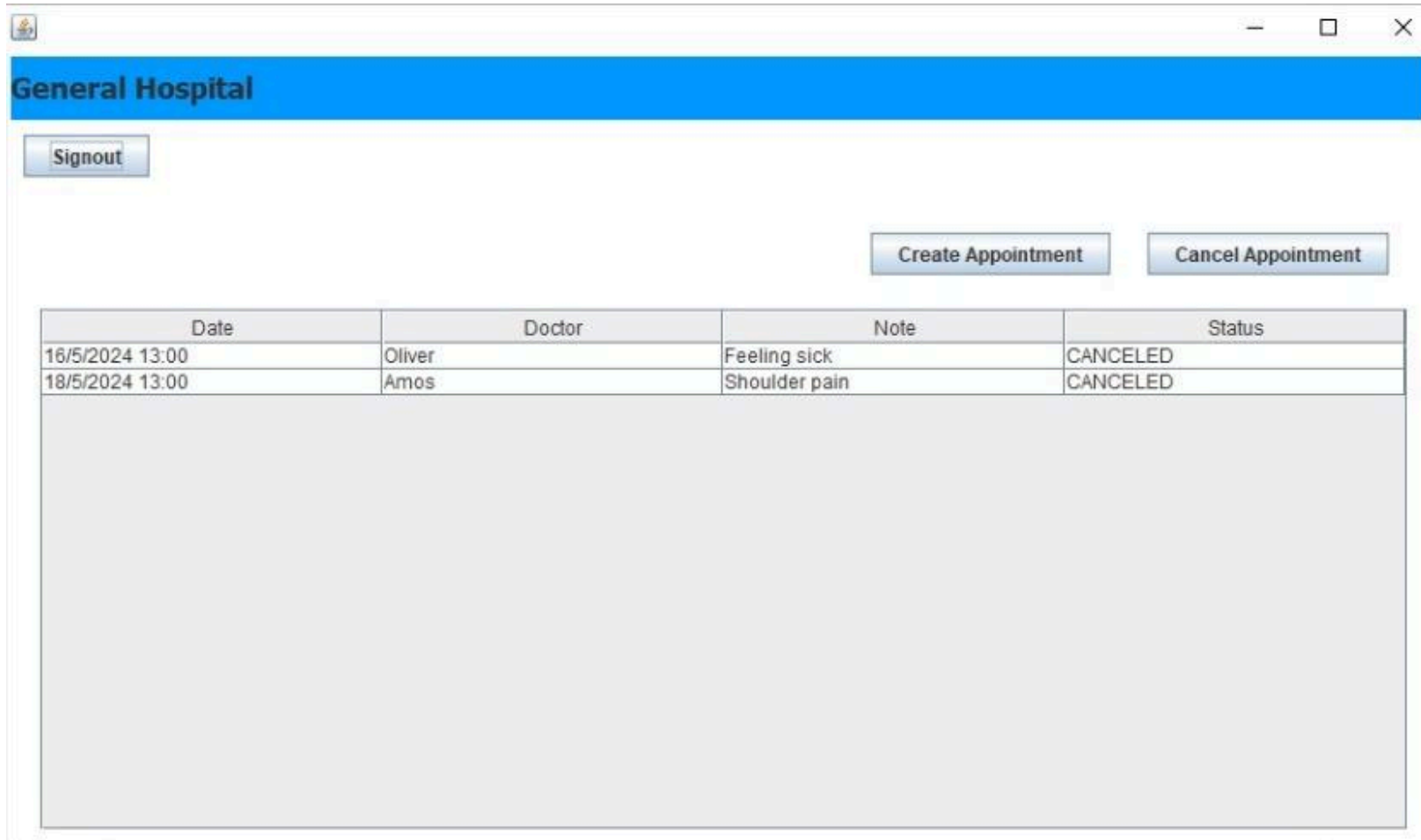
Date	Doctor	Note	Status
16/5/2024 13:00	Oliver	Feeling sick	CANCELED
18/5/2024 13:00	Amos	Shoulder pain	CANCELED

4.2.1 - If the appointment has been canceled and you canceled again, you will get a error message



Signout

5.0 - Click on “Signout”, this will take you to the main page. To signout you had to login properly in the first place (see 2.0).



The screenshot shows a web application window with a blue header bar labeled "General Hospital". Below the header, there is a "Signout" button on the left. On the right, there are two buttons: "Create Appointment" and "Cancel Appointment". Below these buttons is a table with four columns: "Date", "Doctor", "Note", and "Status". The table contains two rows of data, both with a status of "CANCELED".

Date	Doctor	Note	Status
16/5/2024 13:00	Oliver	Feeling sick	CANCELED
18/5/2024 13:00	Amos	Shoulder pain	CANCELED

Doctor registration

1.0 - The admin is the only user who can add doctor, need to login with an administrator account



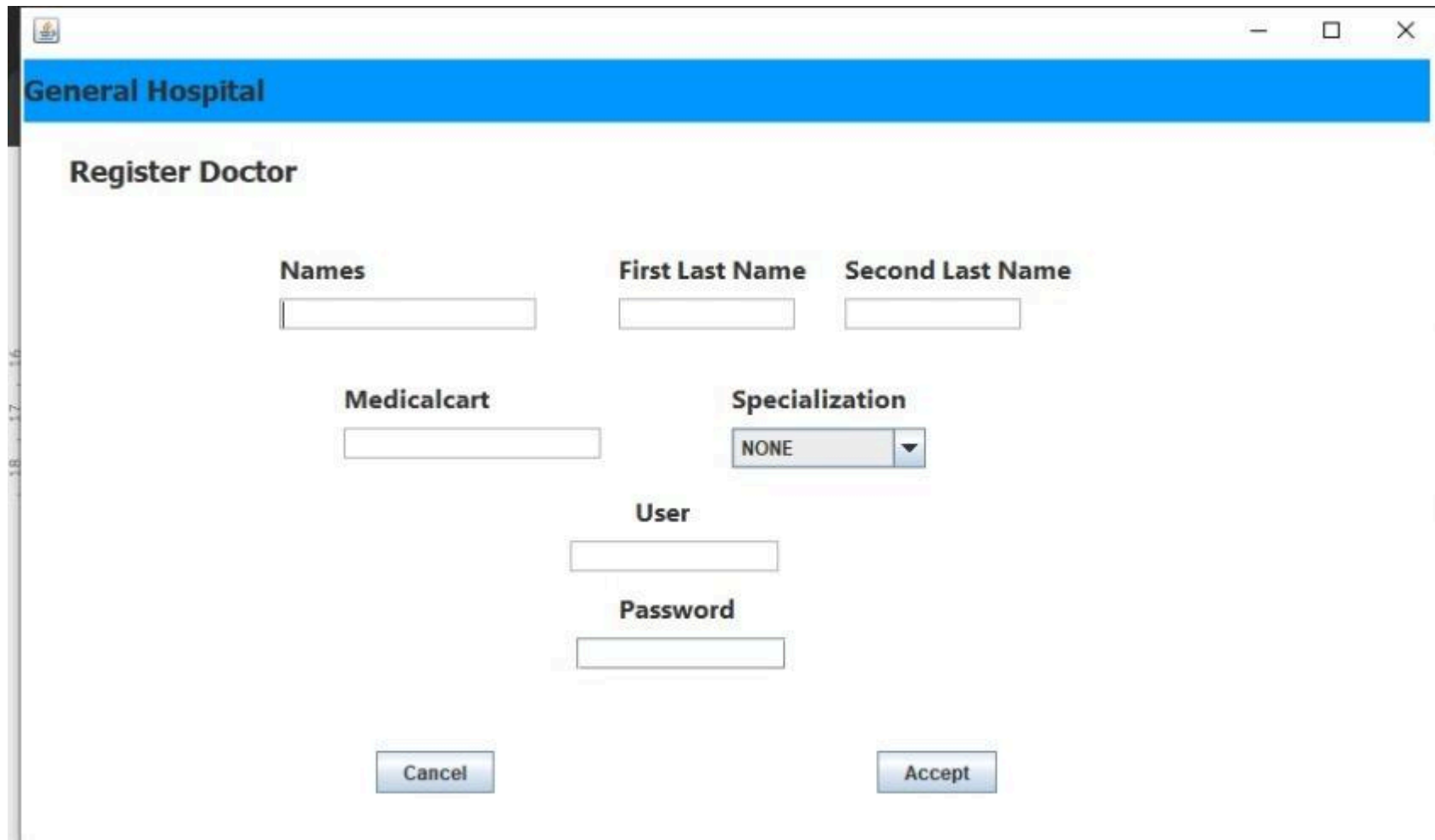
The screenshot shows a web application window titled "Login". The window has a blue header bar with the text "Hospital General". Below the header, there is a login form on the left and a large caduceus symbol on the right. The login form contains the following elements:

- A label "Login" in a large, stylized font.
- A label "Username" above a text input field containing the text "admin".
- A label "Password" above a text input field containing five dots (masked password).
- A black button with the text "Login".
- A link "New? Register" in blue text.

1.1 - Once login with admin account you can see the options who the admin can do, one of these are the add a doctor



1.3 Click on “Register Doctors”, will take to medical register




The screenshot shows a web application window titled "General Hospital". Inside the window, there is a section titled "Register Doctor". The form contains several input fields and a dropdown menu:

- Names**: A single text input field.
- First Last Name**: A text input field.
- Second Last Name**: A text input field.
- Medicalcart**: A text input field.
- Specialization**: A dropdown menu with "NONE" selected.
- User**: A text input field.
- Password**: A text input field.

At the bottom of the form, there are two buttons: "Cancel" and "Accept".

1.3 Once here, we filled the fields



The screenshot shows a window titled "General Hospital" with a blue header bar. Inside the window, the title "Register Doctor" is displayed. The form contains several input fields and a dropdown menu:

- Names**: A text box containing "Roberto".
- First Last Name**: A text box containing "Ramos".
- Second Last Name**: A text box containing "Cruz".
- Medicalcart**: A text box containing "92832".
- Specialization**: A dropdown menu with "PEDIATRIC" selected.
- User**: A text box containing "Robocop".
- Password**: A text box with a masked password ".....".

At the bottom of the form, there are two buttons: "Cancel" and "Accept".

1.4 - Click on “Accept” and the program was a validate the medical Cart

The screenshot shows a software application window titled "General Hospital". Inside the window, there is a section titled "Register Doctor". This section contains several input fields and a dropdown menu:

- Names**: A text box containing "Roberto".
- First Last Name**: A text box containing "Ramos".
- Second Last Name**: A text box containing "Cruz".
- Specialization**: A dropdown menu with "PEDIATRIC" selected.
- User**: A text box containing "Robocop".
- Password**: A text box filled with asterisks "*****".

At the bottom of the form are two buttons: "Cancel" and "Accept".

Overlaid on the form is a small "Message" dialog box. It has a title bar with "Message" and a close button (X). The message text inside says "The meidcalCart has been validated" (note the typo in the original image). There is an information icon (i) to the left of the text and an "OK" button at the bottom.

1.4.1 - If the medical cart is already in use, will receive a error message

The screenshot shows a web application window titled "General Hospital". Inside, there is a "Register Doctor" form. The form has three input fields for "Names": "First Last Name" (containing "John"), "Second Last Name" (containing "Lopez"), and "Medicalcart" (containing "Rodriguez"). Below these is a "Medicalcart" field with the value "92832". At the bottom of the form are "Cancel" and "Accept" buttons. An error message dialog box is overlaid on the form, titled "Message", with an information icon and the text "The medicalCart is already in use". The dialog has an "OK" button.

General Hospital

Register Doctor

Names

First Last Name: John

Second Last Name: Lopez

Medicalcart: Rodriguez

Medicalcart: 92832

Message

The medicalCart is already in use

OK

Cancel

Accept

1.4.2 - If one of more fields are empty, receive an error message

The screenshot shows a web application window titled "General Hospital" with a "Register Doctor" form. The form contains several input fields: "Names" (with "Juanito" entered), "First Last Name", "Second Last Name", "Medicalcart" (with "92832" entered), "User" (with "Juan" entered), and "Password". An error message dialog box is displayed in the center, stating "Error" and "Pleas, fill in all empty fields" with an "OK" button. At the bottom of the form are "Cancel" and "Accept" buttons.

General Hospital

Register Doctor

Names
Juanito

First Last Name

Second Last Name

Medicalcart
92832

User
Juan

Password

Error
Pleas, fill in all empty fields
OK

Cancel Accept

1.4.5 if the user is already in use, receive an error message

The screenshot shows a web application window titled "General Hospital". Inside, there is a "Register Doctor" form. The form has three input fields for "Names": "First Last Name" (containing "Perez") and "Second Last Name" (containing "Aldebaran"). Below these is a "Medicalcart" field containing "92832". At the bottom of the form are "Cancel" and "Accept" buttons. An error message dialog box is overlaid on the form, titled "Message", with an information icon and the text "The username is already in use". The dialog has an "OK" button. The "Names" label is positioned above the "First Last Name" field, and the "Password" label is positioned above a password field (containing "*****") located below the "Medicalcart" field.

General Hospital

Register Doctor

Names

First Last Name Second Last Name

Juanito Perez Aldebaran

Medicalcart

92832

Message

The username is already in use

OK

Juanito

Password

Cancel Accept

Login

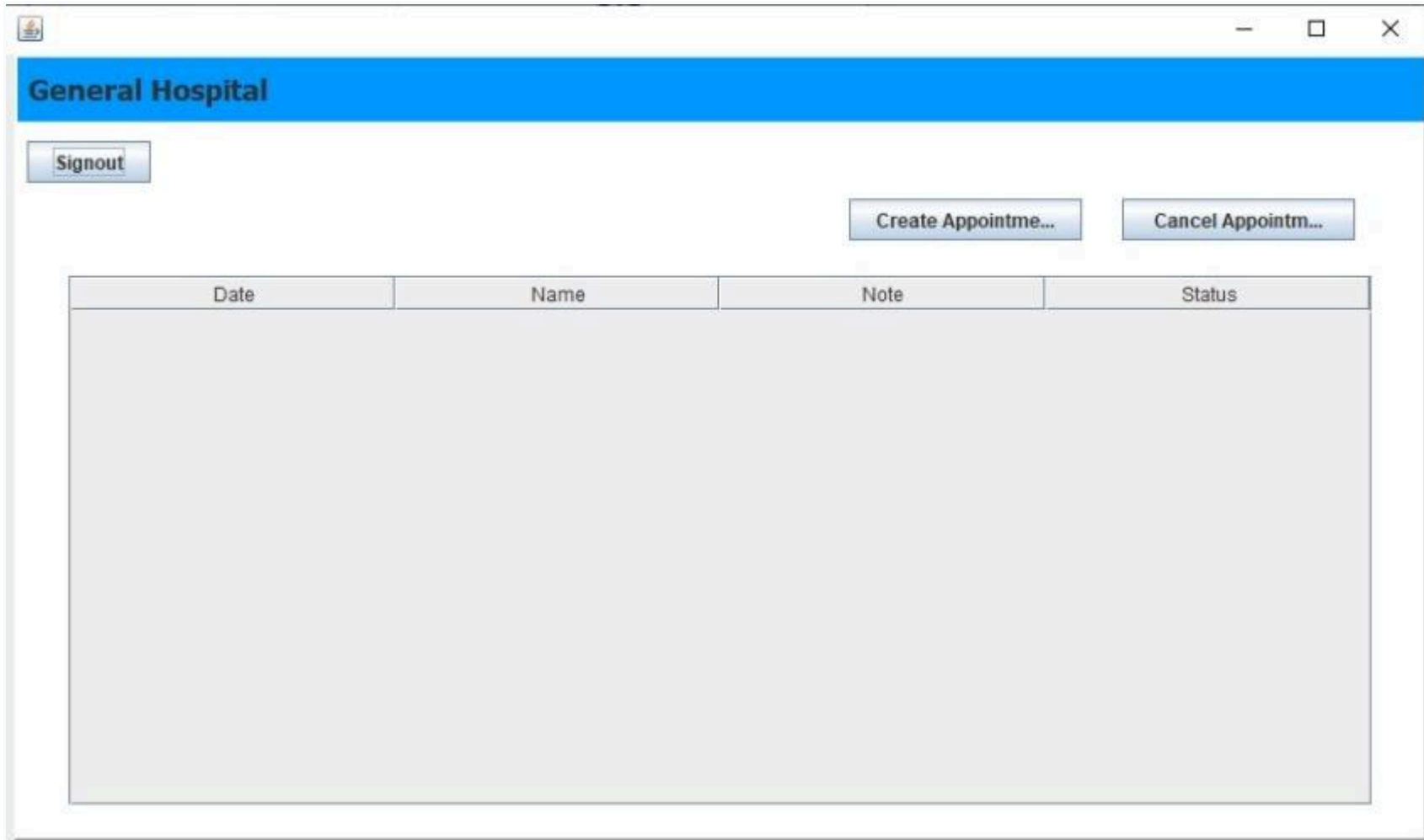
2.0 - The doctor can login with his username and his password



The screenshot shows a web application window titled "Login". The window has a blue header bar with the text "Hospital General". Below the header, there is a large black caduceus symbol on the right side. On the left side, there is a login form with the following elements:

- A heading "Login" in a light blue box.
- A label "Username" above a text input field containing the text "Robocop".
- A label "Password" above a text input field containing seven asterisks "*****".
- A black button with the text "Login".
- A link "New?" followed by a blue link "Register".

2.0 Once click on login, you will be able to see the doctors main menu

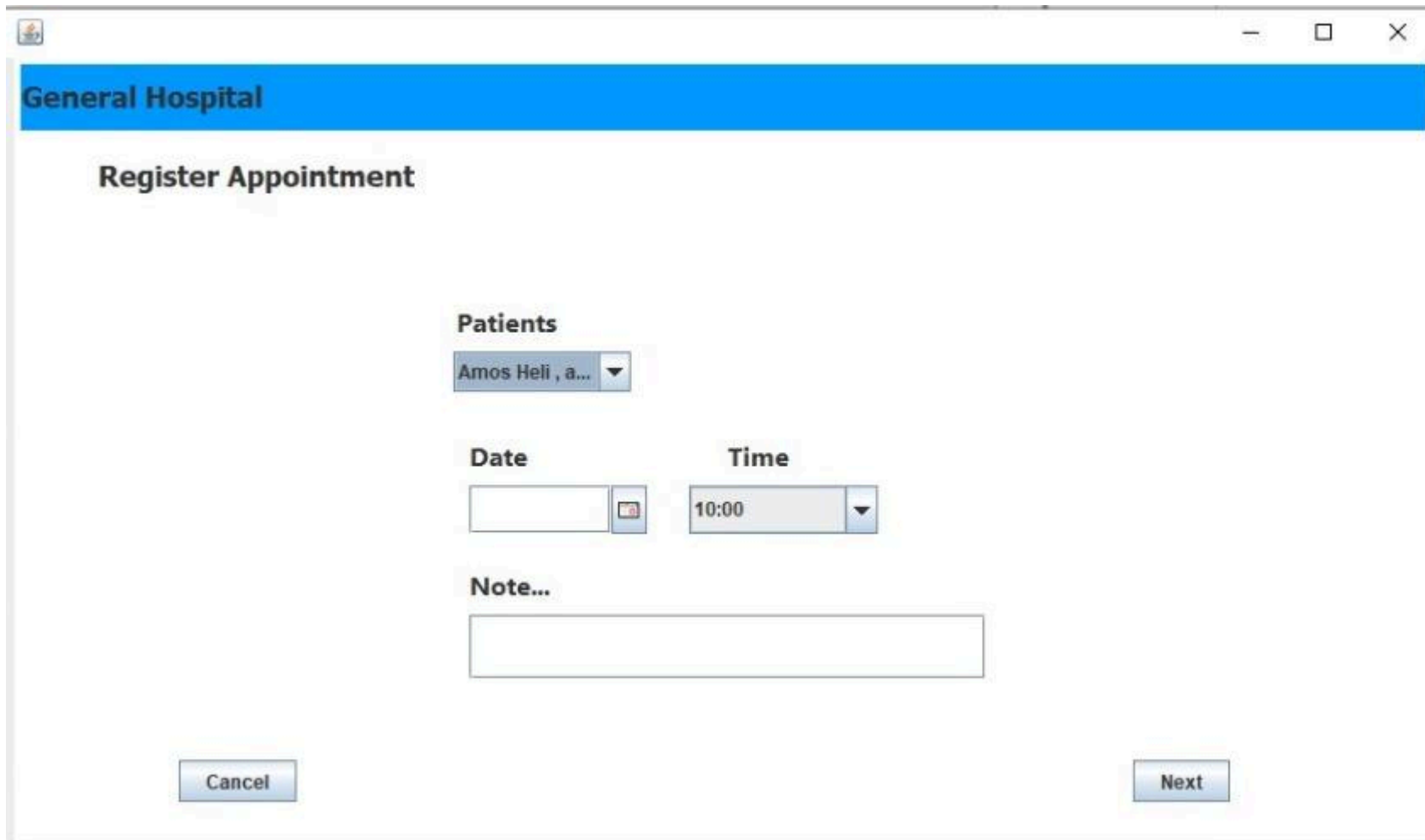


The screenshot shows a web application window titled "General Hospital". The window has a blue header bar with the title. Below the header, there is a "Signout" button on the left. On the right, there are two buttons: "Create Appointment..." and "Cancel Appointment...". Below these buttons is a table with four columns: "Date", "Name", "Note", and "Status". The table is currently empty, showing only the header row.

Date	Name	Note	Status
------	------	------	--------

Create an appointment

1.0 First need to click on Create an appointment and you will see the menu to create appointment



The screenshot shows a software window titled "General Hospital" with a blue header bar. Below the header, the text "Register Appointment" is displayed. The form contains the following elements:

- Patients:** A dropdown menu showing "Amos Heli , a..." with a downward arrow.
- Date:** A text input field with a calendar icon to its right.
- Time:** A dropdown menu showing "10:00" with a downward arrow.
- Note...:** A large, empty text area for additional information.
- Buttons:** "Cancel" and "Next" buttons are located at the bottom of the window.

2.0 - I add all information to need and to can see the patient for information

General Hospital

Register Appointment

Patients

Amos Heli, a... ▼

Date **Time**

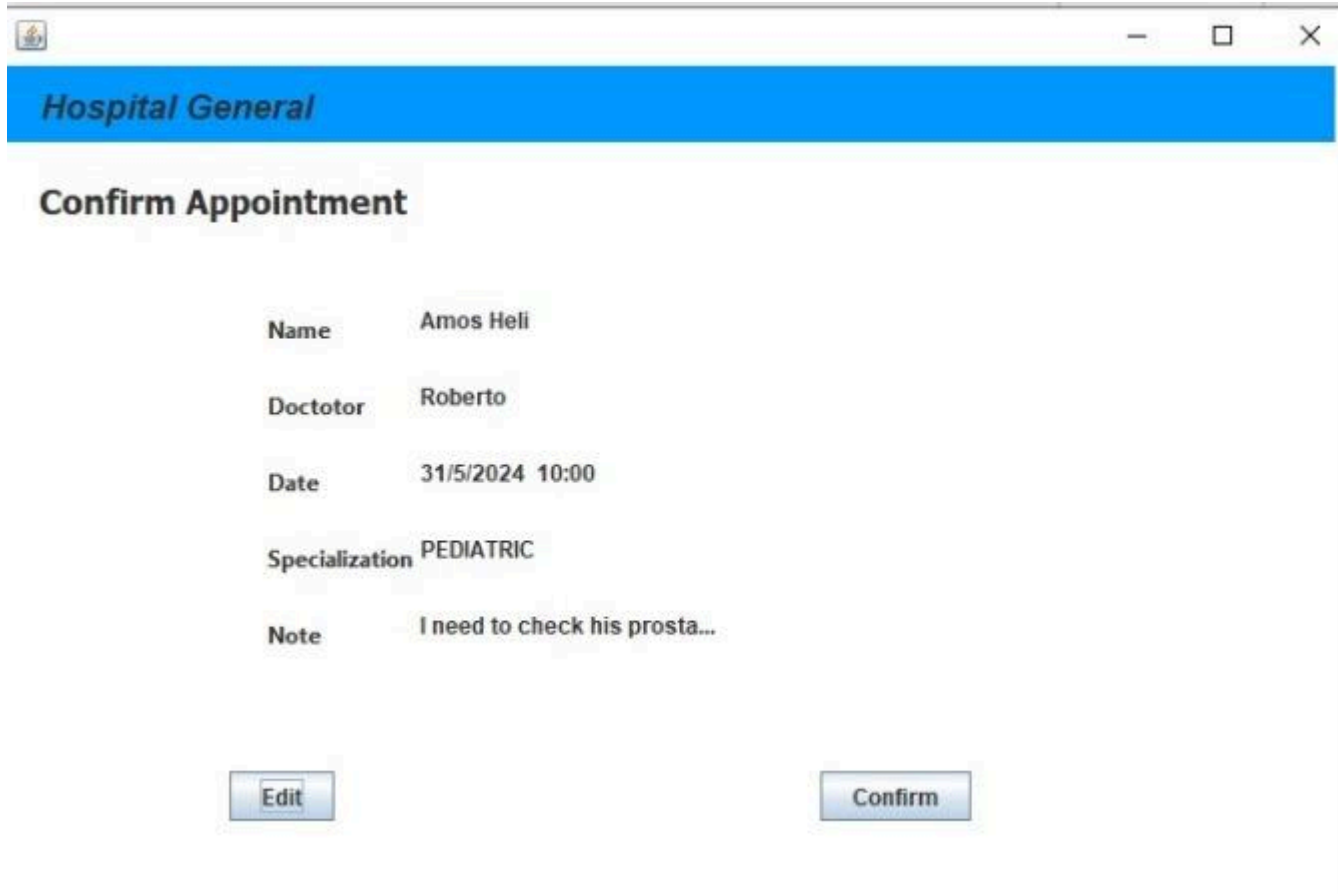
31 may 2024 📅 10:00 ▼

Note...

I need to check his prostate

Cancel Next

3.0 - Once click on Next can see the next frame, in this frame can select edit or confirm depending on our needs

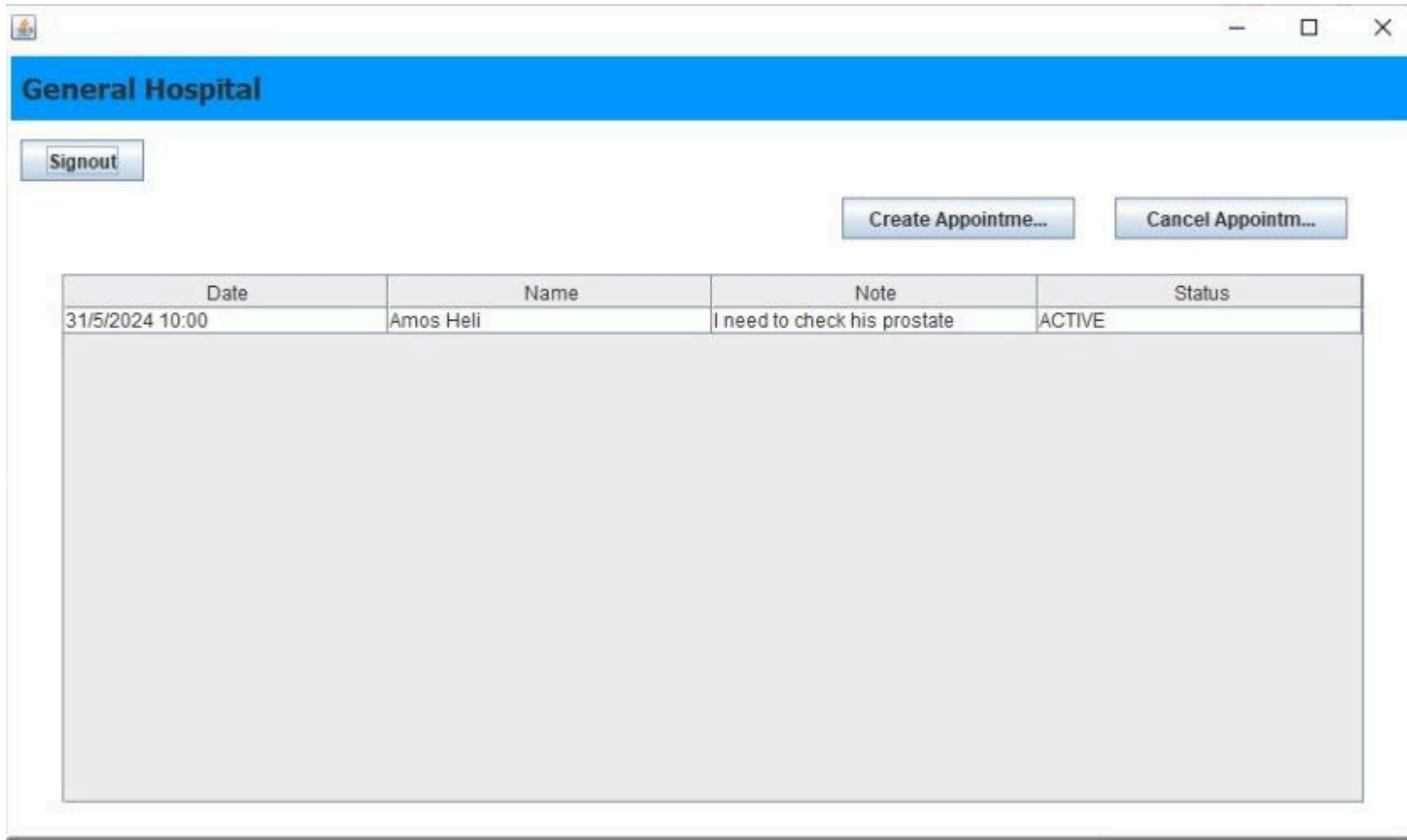


The screenshot shows a web application window titled "Hospital General". Inside the window, there is a section titled "Confirm Appointment". This section contains a form with the following fields:

Name	Amos Heli
Doctotor	Roberto
Date	31/5/2024 10:00
Specialization	PEDIATRIC
Note	I need to check his prosta...

At the bottom of the form, there are two buttons: "Edit" and "Confirm".

4.0 - Once you click on the button confirm, can see the appoint in the appointment list in the menu



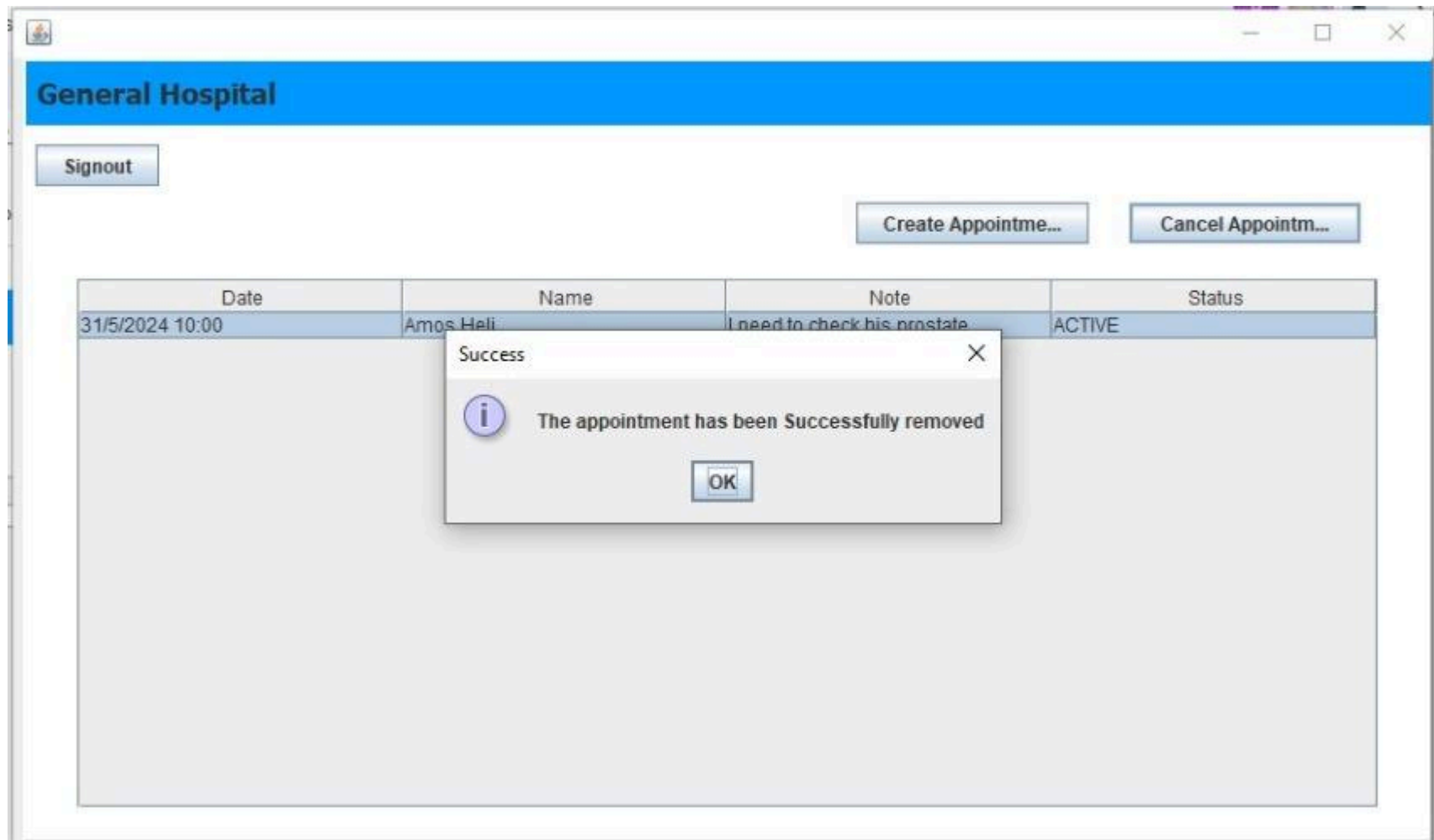
General Hospital

Signout

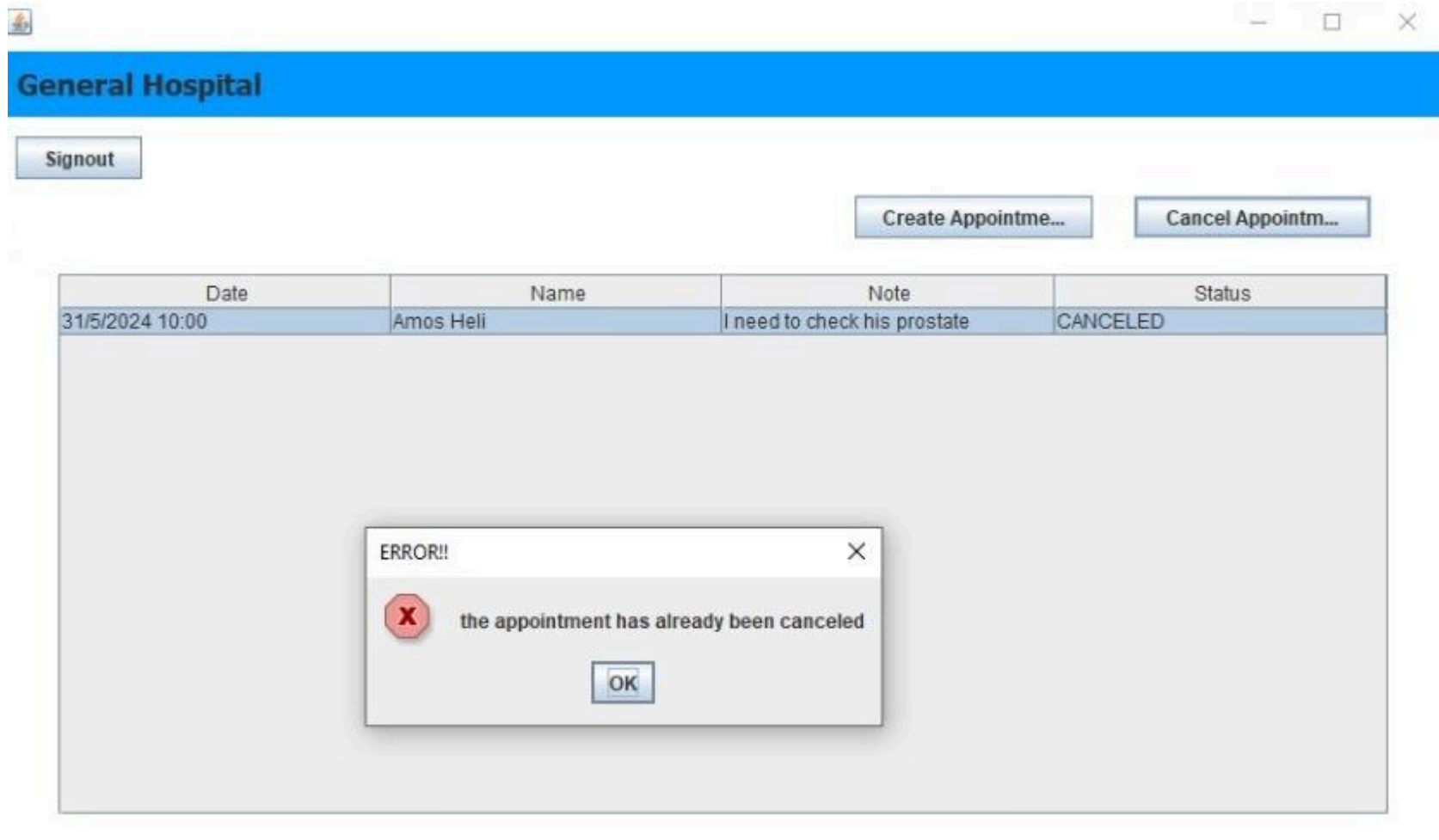
Create Appointment... Cancel Appointment...

Date	Name	Note	Status
31/5/2024 10:00	Amos Heli	I need to check his prostate	ACTIVE

5.0 - you will select a field and then click on the button cancel appointment



5.1 - if you click on cancel appointment in an appoint canceled will receive a error message



6.0 - Click on “Signout”, this will take you to the main page. To signout you had to login properly in the first place



The screenshot shows a web browser window with the title "Login". The browser's address bar and window controls are visible at the top. Below the title bar, there is a blue header with the text "Hospital General". The main content area is divided into two sections. On the left, there is a login form with the heading "Login". Below the heading, there are two input fields: "Username" and "Password". Below the "Password" field is a black button with the text "Login". At the bottom of the form, there is a link "New? Register". On the right side of the page, there is a large, black caduceus symbol.

Login

1.0 The administrator only can register by the database administrator and you will introducing the username and password to login




The screenshot shows a web application window titled "Login" with a blue header bar labeled "Hospital General". The main content area is divided into two sections. On the left, there is a login form with the title "Login" in a large, italicized font. Below the title, there are two input fields: "Username" with the text "admin" entered, and "Password" with five asterisks "*****" entered. Below these fields is a black button with the text "Login" in white. At the bottom left of the form, there is a link "New? Register" where "New?" is in black and "Register" is in blue. On the right side of the form, there is a large black caduceus symbol, which is a staff with two snakes entwined and wings at the top.

Patient registration

1.0 Once on the administrator main menu can see the options



2 - Click on Register patient can see the frame and add the fields



The screenshot shows a window titled "General Hospital" with a blue header bar. The main content area is white and contains the title "Register User" in bold black text. Below the title are two input fields: "Username" and "Password". At the bottom left is a "Cancel" button, and at the bottom right is a large black button labeled "Register".

General Hospital

Register User

Username

Password

Cancel Register

3.0 Once the fields are filled out we can click on register

The image shows a web browser window with a title bar containing a small icon and standard window controls (minimize, maximize, close). The main content area has a blue header bar with the text "General Hospital". Below the header, the page title "Register User" is centered. The form consists of two input fields: "Username" with the value "Kevin" and "Password" with six asterisks. At the bottom left is a "Cancel" button, and at the bottom right is a large black button labeled "Register".

General Hospital

Register User

Username

Kevin

Password

Cancel

Register

3.1 - if you will leave any field empty, will receive an error message

The screenshot shows a web application window titled "General Hospital". Inside, there is a "Register User" form. A modal message box is displayed in the center, stating: "Message: The username or password can't be in blank". The message box has an information icon and an "OK" button. Below the message box, the "Password" field is visible, containing six asterisks. At the bottom of the form, there are two buttons: "Cancel" and "Register".

General Hospital

Register User

Message

The username or password can't be in blank

OK

Password

Cancel Register

3.2 - If the username has been already in use, will receive an error message



4.0 - Once the necessary fields have been filled out, can select confirm

Registro Paciente

Hospital General

Register Patient

Names Kevin	First Last Name Ozuna	Second Last Name Cuen	Birth Date 27 may 2000
Sex <input checked="" type="checkbox"/> Male <input type="checkbox"/> Female <input type="checkbox"/> Other		Insurance Number 34234	
Zipcode 324324	Colony Cumuripa	Street 20 de Noviembre	
Phone Number 6442621169	CURP OUQAHJW6332S		

Accept

4.1 - if you will leave any field empty, will receive an error message

Registro Paciente

Hospital General

Register Patient

Names
Kevin

First Last Name

Second Last Name
Cuen

Birth Date
27 may 2000

Sex
☒ Male ☐ Female ☐ Other

Zipcode
324324

Colony
Cumuripa

Phone Number
6442621169

CURP
OUQAHJW6332S

Accept

Error
Fields can't be in blank
OK