Patient Use Case:

1

Use Case Name: Make An Appointment

Summary: The patient makes an appointment with a doctor in the hospital via his/her account in the hospital ‘s healthcare system. The patient must check for vacant time in the hospital time schedule to schedule an appointment. The system will verify and schedule that appointment.

Actor: Patient

Dependency: Extends Having An Account

Precondition: The patient has a valid account in healthcare system

Description of main sequence:

1. The patient log in the hospital ‘s healthcare system via his/her account in the system.
2. The system validates the patient’s account, if approved the system redirect the patient to the homepage.
3. The patient selects the option “Appointments” on the navigate bar in the homepage. In the “Appointment” page, the patient selects “Make an appointment” option.
4. The patient fills personal information in the A1 form to make an appointment. The A1 form needs the patient’s general reason for the appointment, the appointment time.
5. System shows all the viable time for the patient to make an appointment from the system’s database.
6. Patient selects the time and submits the form.
7. System checks the SSN and the time scheduled. If approved, system informs a doctor whose time available for the appointment and suitable specialization, system writes the information of the new appointment to its database and update patient’s information.
8. System display the approval to patient and shows detail of the appointment in the section’s screen.

Alternative sequences:

* Step2: If the account is invalid, system brings back to login screen and display “Wrong username or password”. If patient doesn’t have an account, system shows the signup screen.
* Step7: If time is invalid, system brings back to the form page and shows error “Invalid scheduled time”.

Postcondition: System has created an appointment for the patient

2

Use Case Name: Cancel An Appointment

Summary: The patient cancels an appointment which his/her has made with the hospital via his/her account in the hospital ‘s healthcare system. Patient must approve his/her cancel.

Actor: Patient

Dependency: Extends Having An Account

Precondition: The patient has a valid account in healthcare system. Patient has made an appointment via healthcare’ system

Description of main sequence:

1. The patient log in the hospital ‘s healthcare system via his/her account in the system.
2. The system validates the patient’s account, if approved the system redirect the patient to the homepage.
3. The patient selects the option “Appointments” on the navigate bar in the homepage. In the “Appointment” page, the patient selects “Cancel an appointment” option.
4. System reads the appointment information of the patient in the database and renders on the screen the patient’s appointments are having.
5. Patient is redirected to a menu which shows all his/her appointments that are available to be cancelled.
6. Patient ticks the checkbox on appointment that he/she wants to cancel.
7. Patient clicks the “term condition” checkbox and clicks the red button “Cancel appointment”.
8. System show a warning about the cancellation and displays the message box “Are you want to cancel the appointment?”.
9. Patient can click “YES” or “NO” button on the warning message box.
10. If “YES”, the system deletes patient’s appointment on the database and update patient’s information. System informs the doctor whom has the specific cancellation appointment with the patient. System updates the doctor available time in the database.
11. System display the success message to patient and shows detail of the cancellation appointment in the section’s screen.

Alternative sequences:

* Step2: If the account is invalid, system brings back to login screen and display “Wrong username or password”. If patient doesn’t have an account, system shows the signup screen.
* Step4: If no appointment was made, the system renders blank page with “No appointment” message and “Back to homepage” option.
* Step10: if “NO”, patient is redirected back to cancellation’s page.

Postcondition: System has deleted an appointment of the patient

CANCEL APPOINT

MR ABC appointment on Jan 31 5pm

3

Use Case Name: Change An Appointment

Summary: The patient changes the time of an appointment which his/her has made with the hospital via his/her account in the hospital ‘s healthcare system. Patient must approve his/her the change.

Actor: Patient

Dependency: Extends Having An Account

Precondition: The patient has a valid account in healthcare system. Patient has made an appointment via healthcare’ system

Description of main sequence:

1. The patient log in the hospital ‘s healthcare system via his/her account in the system.
2. The system validates the patient’s account, if approved the system redirect the patient to the homepage.
3. The patient selects the option “Appointments” on the navigate bar in the homepage. In the “Appointment” page, the patient selects “Change an appointment” option.
4. System reads the appointment information of the patient in the database and renders on the screen the patient’s appointments are having.
5. Patient is redirected to a menu which shows all his/her appointments that are available to be changed.
6. Patient can only tick one checkbox of an appointment that he/she wants to change. Patient click “Change” button to continue.
7. System reads from database viable time to change appointment and render the page with available time calendar
8. Patient selects new appointment time which he/she wants to change to.
9. Patient clicks the “term condition” checkbox and clicks the button “Change appointment”.
10. System show a warning about the change and displays the message box “Are you want to change the appointment?”.
11. Patient can click “YES” or “NO” button on the warning message box.
12. If “YES”, the system change patient’s appointment on the database and update patient’s information. System informs the doctor whom has the specific change appointment with the patient. System check the doctor’s availability at the new time. If approved, system updates the doctor available time in the database.
13. System display the success message to patient and shows detail of the change appointment in the section’s screen.

Alternative sequences:

* Step2: If the account is invalid, system brings back to login screen and display “Wrong username or password”. If patient doesn’t have an account, system shows the signup screen.
* Step4: If no appointment was made, the system renders blank page with “No appointment” message and “Back to homepage” option.
* Step12: If NO, patient is redirected back to change page

Post condition: System change an appointment time of patient.

4

Use Case Name: Read medical record

Summary: A patient can access his/her medical record on-line via the healthcare system, which includes a doctor visit summary, lab result, radiology report, pathology report, allergy information, and prescribed medicines.

Actor: Patient

Dependency: Extends Having An Account

Precondition: The patient has a valid account in healthcare system

Description of main sequence:

1. The patient log in the hospital ‘s healthcare system via his/her account in the system.
2. The system validates the patient’s account, if approved the system redirect the patient to the homepage.
3. The patient selects the option “Profile” on the navigate bar in the homepage. In the “Profile” page, there are information includes a doctor visit summary, lab result, radiology report, pathology report, allergy information, and prescribed medicines.
4. The patient can read all the information in the “Profile” page but cannot modify the information.

Alternative sequences:

* Step2: If the account is invalid, system brings back to login screen and display “Wrong username or password”. If patient doesn’t have an account, system shows the signup screen.

Post condition: Nothing change in the system. Patient has read his/her profile.

5

Use Case Name: Pay An Invoice Online

Summary: The patient pays the invoice fee after getting treatment. Patient receives a receipt after invoice payment.

Actor: Patient

Dependency: Extends Having An Account

Precondition: The patient has a valid account in healthcare system. Patient is getting treatment and there are fees after the treatment. The patient received an email about invoice fee from the healthcare’s system.

Description of main sequence:

1. The patient log in the hospital ‘s healthcare system via his/her account in the system.
2. The system validates the patient’s account, if approved the system redirect the patient to the homepage.
3. The patient selects the option “Payment” on the navigate bar in the homepage. In the “Payment” page, the patient selects “Invoice payment” option.
4. System shows patient the amount of invoice needed to pay.
5. Patient inputs his/her card number, expire date and CSV number.
6. System check if the information on the card. If approved, system fire a transaction from the patient’s bank for the invoice. If the transaction success, system updates patient invoice, and send a success message to the patient.
7. System send the receipt to the patient via email.

Alternative sequences:

* Step2: If the account is invalid, system brings back to login screen and display “Wrong username or password”. If patient doesn’t have an account, system shows the signup screen.
* Step6: If information on card is denied, the transaction is stopped, user is directed back to the payment screen with error message “Incorrect info”.
* Step6: If the transaction is denied, the transaction is stopped, user is directed back to the payment screen with error message “Transaction failed”.

Postcondition: Patient payed his/her invoice.