

## 1. Tests

### 1.1 Patient Actions

#### 1.1.1 View Medical Records

After login in, patients can view their particulars and record through selecting the first option in the menu.

```
=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 1
Name       : Alice Brown
DOB        : 14 May 1980
Email      : alice.brown@example.com
Contact no. : -1
Blood type  : A+
Previous appointment outcomes:
~ No appointment outcomes found!
```

#### 1.1.2 Update Personal Information

Patients can also change their contact information through the second selection in the menu. They are able to alter their email address and contact number.

```
=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 2
Choose particular to change:
1. Email
2. Contact number
Enter selection:
1
Enter new email:
Mail@mail.com
Email edited
```

```
=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 2
Choose particular to change:
1. Email
2. Contact number
Enter selection:
2
Enter new contact number:
831279
Contact number edited
```

The change is also reflected if patient choose to view their records.

```
Enter your choice: 1
Name       : Alice Brown
DOB        : 14 May 1980
Email      : Mail@mail.com
Contact no. : 831279
Blood type  : A+
Previous appointment outcomes:
~ No appointment outcomes found!
```

### 1.1.3 View Available Appointment

Patients can view the available appointment slot of their preferred doctor through the third menu. Upon selecting the doctor, available slots in the next 7 days are shown.

```
=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 3
Select Doctor:
1. dr. John Smith
2. dr. Emily Clarke
3. dr. James Bond
Select doctor:
1
=====
Available slots:
Mon, 18 Nov 2024:
1. 09:00
2. 10:00
3. 11:00
4. 12:00
5. 13:00
6. 14:00
7. 15:00
Tue, 19 Nov 2024:
8. 09:00
9. 10:00
10. 11:00
11. 12:00
12. 13:00
13. 14:00
14. 15:00
```

### 1.1.4 Schedule an Appointment

Through the fourth menu, they are able to schedule an appointment by selecting their preferred doctor, date, and time. After this, the timeslot is marked as unavailable. Patients are also unable to book an appointment on an unavailable time slot.

```
=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 4
1. dr. John Smith
2. dr. Emily Clarke
3. dr. James Bond
Select doctor:
1
1. Mon, 18 Nov 2024
2. Tue, 19 Nov 2024
3. Wed, 20 Nov 2024
4. Thu, 21 Nov 2024
5. Fri, 22 Nov 2024
6. Sat, 23 Nov 2024
7. Sun, 24 Nov 2024
8. Back
Choose date:
1
Mon, 18 Nov 2024
1. 09:00 : Available
2. 10:00 : Available
3. 11:00 : Available
4. 12:00 : Available
5. 13:00 : Available
6. 14:00 : Available
7. 15:00 : Available
8. Back
Choose time:
2
Appointment successfully booked with dr. John Smith at Mon, 18 Nov 2024, 10:00

=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 4
1. dr. John Smith
2. dr. Emily Clarke
3. dr. James Bond
Select doctor:
1
1. Mon, 18 Nov 2024
2. Tue, 19 Nov 2024
3. Wed, 20 Nov 2024
4. Thu, 21 Nov 2024
5. Fri, 22 Nov 2024
6. Sat, 23 Nov 2024
7. Sun, 24 Nov 2024
8. Back
Choose date:
1
Mon, 18 Nov 2024
1. 09:00 : Available
2. 10:00 : Unavailable
3. 11:00 : Available
4. 12:00 : Available
5. 13:00 : Available
6. 14:00 : Available
7. 15:00 : Available
8. Back
Choose time:
2
Slot is unavailable!
```

### 1.1.5 Reschedule an Appointment

Appointments can be rescheduled through the 5<sup>th</sup> menu. Patients are required to choose the appointment they would like to reschedule and select a new doctor, time, and date for the appointment.

```

=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 5
Appt173192087595: (Doctor: dr. John Smith )Wed, 20 Nov 2024 11:00| Status: Pending
Enter full appointment ID to reschedule:
Appt173192087595
Rescheduling appointment.....
Appointment with dr. John Smith at Wed, 20 Nov 2024 11:00 successfully cancelled.
=====
Availability updated. Appointment removed in schedule.

Availability of slot: Available
1. dr. John Smith
2. dr. Emily Clarke
Select doctor to reschedule to:
1
1. Mon, 18 Nov 2024
2. Tue, 19 Nov 2024
3. Wed, 20 Nov 2024
4. Thu, 21 Nov 2024
5. Fri, 22 Nov 2024
6. Sat, 23 Nov 2024
7. Sun, 24 Nov 2024
8. Back
Choose date:
4
Thu, 21 Nov 2024
1. 09:00 : Available
2. 10:00 : Available
3. 11:00 : Available
4. 12:00 : Available
5. 13:00 : Available
6. 14:00 : Available
7. 15:00 : Available
8. Back
Choose time:
1
Appointment successfully booked with dr. John Smith at Thu, 21 Nov 2024, 09:00
Availability updated. Appointment added in schedule.

```

The changes are reflected in the availability schedule.

Wed, 20 Nov 2024	Thu, 21 Nov 2024
1. 09:00 : Available	1. 09:00 : Unavailable
2. 10:00 : Available	2. 10:00 : Available
3. 11:00 : Available	3. 11:00 : Available
4. 12:00 : Available	4. 12:00 : Available
5. 13:00 : Available	5. 13:00 : Available
6. 14:00 : Available	6. 14:00 : Available
7. 15:00 : Available	7. 15:00 : Available
8. Back	8. Back

### 1.1.6 Cancel an Appointment

Menu six allows patients to cancel appointments. Upon selecting it, a list of their appointments will be displayed and patients can choose appointment to cancel by entering the appointment ID.

```

=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 6
Appt1731920400963: (Doctor: dr. John Smith )Thu, 21 Nov 2024 09:00| Status: Pending
Enter full appointment ID to cancel:
Appt1731920400963
Cancelling appointment.....
Appointment with dr. John Smith at Thu, 21 Nov 2024 09:00 successfully cancelled.
=====
Availability updated. Appointment removed in schedule.

```

The timeslot is now available for appointments.

```

Thu, 21 Nov 2024
1. 09:00 : Available
2. 10:00 : Available
3. 11:00 : Available
4. 12:00 : Available
5. 13:00 : Available
6. 14:00 : Available
7. 15:00 : Available
8. Back

```

### 1.1.7 View Scheduled Appointments

Scheduled appointments can be seen through the seventh menu, doctor's name, date, and time of appointment is shown as below:

```

=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 7
Showing upcoming appointment status:
=====
Appt1731920400963: (Doctor: dr. John Smith )Thu, 21 Nov 2024 09:00| Status: Pending

```

### 1.1.8 View Past Appointment Outcome Records

Past appointment records can be seen from the 8<sup>th</sup> menu option.

```

=====
Hello Alice Brown, welcome to the patient menu
1. View Medical Records
2. Update Personal Information
3. View Available Appointment Slots
4. Schedule Appointment
5. Reschedule Appointment
6. Cancel Appointment
7. View Scheduled Appointments
8. View Past Appointment Records
9. Change Password
10. Logout
=====
Enter your choice: 8
Past appointments and statuses:
=====
Appt1731922856076: (Doctor: dr. John Smith )Mon, 18 Nov 2024 09:00| Status: Completed

Enter full appointment ID to display past outcome record:
Appt1731922856076
Appointment records of Appt1731922856076
=====
Appointment ID      : Appt1731922856076
Patient Name       : Alice Brown
Doctor Name        : dr. John Smith
Date and Time      : Mon, 18 Nov 2024 09:00
Status             : Completed
Outcome            : Chicken pox

Prescribed Medicine
-----
Paracetamol        5          NOT FULFILLED
-----

```

## 1.2 Doctor Actions

### 1.2.1 View Patient Medical Records

Doctors can see medical records of a patient through the first menu. It shows patient's particulars and their past appointment records.

```

=====
Hello John Smith, welcome to the doctor menu
1. View Patient Medical Records
2. Update Patient Medical Records (Outcome)
3. View Personal Schedule
4. Set Availability for Appointments
5. Accept or Decline Appointment Requests
6. View Upcoming Appointments
7. Record Appointment Outcome
8. Change Password
9. Logout
=====
Enter your choice: 1
1. P1001 Alice Brown
2. P1002 Bob Stone
3. P1003 Charlie White
Select patient:
1
Name          : Alice Brown
DOB           : 14 May 1980
Email         : alice.brown@example.com
Contact no.   : -1
Blood type    : A+
Previous appointment outcomes:
~ No appointment outcomes found!

```

### 1.2.2 Update Patient Medical Records

Doctors can also update previous records through the second option in the menu.

```

=====
Hello John Smith, welcome to the doctor menu
1. View Patient Medical Records
2. Update Patient Medical Records (Outcome)
3. View Personal Schedule
4. Set Availability for Appointments
5. Accept or Decline Appointment Requests
6. View Upcoming Appointments
7. Record Appointment Outcome
8. Change Password
9. Logout
=====
Enter your choice: 2
1. P1001 Alice Brown
2. P1002 Bob Stone
3. P1003 Charlie White
Select patient:
1
Past records:
Appt1731922856076. Mon, 18 Nov 2024: Fever
Select appointment ID of record to update:
Appt1731922856076
Enter updated record:
Chicken pox
Record updated!

```

### 1.2.3 View Personal Schedule

Doctors can see their personal schedule through option 3 on their menu. Upon selecting the option, they are required to choose a date within the next 7 days and their hourly schedule would be shown as below:

```

=====
Hello John Smith, welcome to the doctor menu
1. View Patient Medical Records
2. Update Patient Medical Records (Outcome)
3. View Personal Schedule
4. Set Availability for Appointments
5. Accept or Decline Appointment Requests
6. View Upcoming Appointments
7. Record Appointment Outcome
8. Change Password
9. Logout
=====
Enter your choice: 3
1. Sun, 17 Nov 2024
2. Mon, 18 Nov 2024
3. Tue, 19 Nov 2024
4. Wed, 20 Nov 2024
5. Thu, 21 Nov 2024
6. Fri, 22 Nov 2024
7. Sat, 23 Nov 2024
8. Back
Choose date:
1. Sun, 17 Nov 2024
2. Mon, 18 Nov 2024
3. Tue, 19 Nov 2024
4. Wed, 20 Nov 2024
5. Thu, 21 Nov 2024
6. Fri, 22 Nov 2024
7. Sat, 23 Nov 2024
8. Back
Choose date:
1
Sun, 17 Nov 2024
1. 09:00 : Available
2. 10:00 : Available
3. 11:00 : Available
4. 12:00 : Available
5. 13:00 : Available
6. 14:00 : Available
7. 15:00 : Available

```

Appointments are also shown in the schedule.

```

Mon, 18 Nov 2024
1. 09:00 : Appt1731921676048 Alice Brown
2. 10:00 : Available
3. 11:00 : Available
4. 12:00 : Available
5. 13:00 : Available
6. 14:00 : Available
7. 15:00 : Available

```

### 1.2.4 Set Availability for Appointments

They can also set their availability through option 4. Similarly, they are required to choose the designated date, then time, before indicating availability. The changes are reflected in their personal schedule.

```

=====
Hello John Smith, welcome to the doctor menu
1. View Patient Medical Records
2. Update Patient Medical Records (Outcome)
3. View Personal Schedule
4. Set Availability for Appointments
5. Accept or Decline Appointment Requests
6. View Upcoming Appointments
7. Record Appointment Outcome
8. Change Password
9. Logout
=====
Enter your choice: 4
1. Sun, 17 Nov 2024
2. Mon, 18 Nov 2024
3. Tue, 19 Nov 2024
4. Wed, 20 Nov 2024
5. Thu, 21 Nov 2024
6. Fri, 22 Nov 2024
7. Sat, 23 Nov 2024
8. Back
Choose date:
1
Sun, 17 Nov 2024
1. 09:00
2. 10:00
3. 11:00
4. 12:00
5. 13:00
6. 14:00
7. 15:00
8. Back
Choose time:
5
Indicate availability:
1. Available
2. Not available
3. Back
2
Unavailble on Sun, 17 Nov 2024 13:00

```

```

Sun, 17 Nov 2024
1. 09:00 : Available
2. 10:00 : Available
3. 11:00 : Available
4. 12:00 : Unavailable
5. 13:00 : Unavailable
6. 14:00 : Available
7. 15:00 : Available

```

### 1.2.5 Accept or Decline Appointment

Through the fifth menu, doctors can accept or decline appointments. They select the appointment and either accepts or declines it. The appointment will be reflected in their schedule.

```

=====
Hello John Smith, welcome to the doctor menu
1. View Patient Medical Records
2. Update Patient Medical Records (Outcome)
3. View Personal Schedule
4. Set Availability for Appointments
5. Accept or Decline Appointment Requests
6. View Upcoming Appointments
7. Record Appointment Outcome
8. Change Password
9. Logout
=====
Enter your choice: 5
1. Appt1731921676048: (Alice Brown) Mon, 18 Nov 2024 09:00
Enter full appointment ID to accept (Enter 'Back' to cancel):
Appt1731921676048
1. Accept appointment
2. Reject appointment
Enter selection:
1
Appointment accepted.

```

```

Mon, 18 Nov 2024
1. 09:00 : Appt1731921676048 Alice Brown
2. 10:00 : Available
3. 11:00 : Available
4. 12:00 : Available
5. 13:00 : Available
6. 14:00 : Available
7. 15:00 : Available

```

## 1.2.6 View Upcoming Appointments

Option six on the menu will show doctors a list of their upcoming appointments.

```

=====
Hello John Smith, welcome to the doctor menu
1. View Patient Medical Records
2. Update Patient Medical Records (Outcome)
3. View Personal Schedule
4. Set Availability for Appointments
5. Accept or Decline Appointment Requests
6. View Upcoming Appointments
7. Record Appointment Outcome
8. Change Password
9. Logout
=====
Enter your choice: 6
Upcoming appointments:

Appointment ID : Appt1731921676048
Date           : Mon, 18 Nov 2024
Time           : 09:00
Patient        : Alice Brown

```

## 1.2.7 Record Appointment Outcome

Appointment outcome can be updated through the 7<sup>th</sup> menu. After writing notes for the appointment, the list of medications prescribed is also asked in this menu.

```

=====
Hello John Smith, welcome to the doctor menu
1. View Patient Medical Records
2. Update Patient Medical Records (Outcome)
3. View Personal Schedule
4. Set Availability for Appointments
5. Accept or Decline Appointment Requests
6. View Upcoming Appointments
7. Record Appointment Outcome
8. Change Password
9. Logout
=====
Enter your choice: 7
1. Appt1731921676048: (Alice Brown) Mon, 18 Nov 2024 09:00
Enter full appointment ID to update outcome:
Appt1731921676048
Enter appointment outcome:
feverish

```

```

Any medications prescribed?
1. Yes
2. No
Enter choice:
1
Medicine list:
1. Paracetamol
2. Ibuprofen
3. Amoxicillin
4. (Exit Menu)
Enter medicine index or Exit:
1
Enter medication amount:
5

```

The outcome is also reflected in patient's record.

```

Enter full appointment ID to display past outcome record:
Appt1731922856076
Appointment records of Appt1731922856076
=====
Appointment ID      : Appt1731922856076
Patient Name       : Alice Brown
Doctor Name        : dr. John Smith
Date and Time      : Mon, 18 Nov 2024 09:00
Status             : Completed
Outcome            : Chicken pox

Prescribed Medicine
-----
Paracetamol        5          NOT FULFILLED
-----

```

## 1.3 Pharmacist Actions

### 1.3.1 View Appointment Outcome Record

The pharmacist can view the Appointment Outcome Record, specifically the medication orders needed for the prescription. This ensures privacy for the patient.

```

=====
Hello Mark Lee, welcome to the Pharmacy menu
1. All medication orders
2. Display stock
3. Request restock menu
4. Request log
5. Change Password
6. Log off
=====
Enter selection:
1

===== Prescription =====
Appointment ID      Medication      Amount Status
=====
Appt1731862138076   Paracetamol    20      NOT FULFILLED
=====
Enter Appointment ID to fulfil medicine:

```

### 1.3.2 Update Prescription Status

The pharmacist is able to fulfil prescription orders. Once fulfilled, they are automatically updated to be FULFILLED (Also known as ‘Dispensed’)

```

=====
Enter selection:
1
===== Prescription =====
Appointment ID      Medication      Amount Status
=====
Appt1731863188332   Paracetamol    10      NOT FULFILLED
=====
Enter Appointment ID to fulfil medicine:
Appt1731863188332
-----
Paracetamol        10          NOT FULFILLED
-----
Enter prescription you would like to fulfill (Case Sensitive)
Paracetamol
10 has been removed from Paracetamol
Prescription fulfilled!
Prescription for Paracetamol has been fulfilled.

```

```

===== Prescription =====
Appointment ID      Medication      Amount Status
=====
Appt1731863188332   Paracetamol    10      FULFILLED
=====
Enter Appointment ID to fulfil medicine:
Appt1731863188332
-----
Paracetamol        10          FULFILLED
-----
Enter prescription you would like to fulfill (Case Sensitive)
Paracetamol
The prescription for Paracetamol is already fulfilled.

```



### 1.3.3 View Medication Inventory

Within the main Pharmacy menu, option 2: Display stock, shows all medications available, their Stock and the health of their stock level. Stock lvl is either OK or LOW, this is determined by the low stock alert amount in the CSV, this is not available to be edited by the Pharmacist but is changeable by the Administrator.

```
=====
Hello Mark Lee, welcome to the Pharmacy menu
1. All medication orders
2. Display stock
3. Request restock menu
4. Request log
5. Change Password
6. Log off
=====
Enter selection:
2
=====
Medication      Amount    Stock lvl
=====
Paracetamol     100      OK
=====
Ibuprofen       50       OK
=====
Amoxicillin     75       OK
=====
```

### 1.3.4 Submit Replenishment Request

If the pharmacist noticed that there is a medication that is low on stock, they can request a restock through the 3<sup>rd</sup> menu option. Upon selecting it, they are prompted to choose between requesting restock for all medications that are low in stock or selecting a certain medication. They are also asked to input the amount of medication to be restocked. After which, the request will be submitted pending administrator's approval.

```
=====
Hello Mark Lee, welcome to the Pharmacy menu
1. All medication orders
2. Display stock
3. Request restock menu
4. Request log
5. Change Password
6. Log off
=====
Enter selection:
3
=====
Medication      Amount    Stock lvl
=====
Paracetamol     100      OK
=====
Ibuprofen       50       OK
=====
Amoxicillin     75       OK
=====

1. Request restock - Specific medication
2. Request restock - All of low
3. Cancel restock request
4. Back
```

```
1. Request restock - Specific medication
2. Request restock - All of low
3. Cancel restock request
4. Back
Enter selection:
1
=====
Medication      Amount    Stock lvl
=====
Paracetamol     100      OK
=====
Ibuprofen       50       OK
=====
Amoxicillin     75       OK
=====

Which medication would you like to restock?
Paracetamol
How much would you like to restock?
50
Restock request has been made successfully.
```

## 1.4 Administrator actions

### 1.4.1 View and Manage Staff

Administrators can view and manage hospital staff through the first option in the menu. If they choose to view staff, there also have the option to filter staff through certain attributes or view all staff.

```
=====
Hello Sarah Lee, welcome to the Administrator menu
1. View and Manage Hospital Staff
2. Manage Appointments
3. View and Manage Medication Inventory
4. Approve Replenishment Requests
5. Change Password
6. Logout
=====
1
---- View and Manage Hospital Staff ----
1. View Hospital Staff
2. Manage Hospital Staff
3. Back

Viewing hospital staff...
1. Filter by Staff Role
2. Filter by Staff Gender
3. Filter by Staff Age
4. View all Staff
5. Back
4
Staff list:
Staff {StaffID='D001', Password: pass
      Role: Doctor Name: John Smith , Gender: Male , Age: 45}
Staff {StaffID='D002', Password: password
      Role: Doctor Name: Emily Clarke , Gender: Female , Age: 38}
Staff {StaffID='P001', Password: pass
      Role: Pharmacist Name: Mark Lee , Gender: Male , Age: 29}
Staff {StaffID='A001', Password: pass
      Role: Administrator Name: Sarah Lee , Gender: Female , Age: 40}
```

Furthermore, admins can add staff, edit their detail, or remove staff through the manage staff menu.

```
-----Manage hospital staff-----
Select action:
1. Add Staff
2. Update Staff Details
3. Remove Staff
4. Back
1
---- Add hospital staff ----
Enter User ID: D003
Enter Name: James Bond
Enter Role: Doctor
Enter Gender: Male
Enter Age: 69
Staff member added successfully.
[D003, James Bond, Doctor, Male, 69 years old] added successfully.

----- Update hospital staff -----
Enter User ID of staff to update:
D003
Staff ID      : D003
Name         : James Bond
Gender       : Male
Age          : 69
Role         : Doctor
Select item to edit:
1. Name
2. Gender
3. Age
4. Role
5. Back
3
Enter new staff age:
42
Age changed successfully!

Staff list:
Staff {StaffID='D001', Password: password
      Role: Doctor Name: John Smith , Gender: Male , Age: 45}
Staff {StaffID='D002', Password: password
      Role: Doctor Name: Emily Clarke , Gender: Female , Age: 38}
Staff {StaffID='P001', Password: password
      Role: Pharmacist Name: Mark Lee , Gender: Male , Age: 29}
Staff {StaffID='A001', Password: pas
      Role: Administrator Name: Sarah Lee , Gender: Female , Age: 40}
Staff {StaffID='D003', Password: password
      Role: Doctor Name: James Bond , Gender: Male , Age: 69}

---- Remove hospital staff ----
Enter the User ID of the staff member to remove: D003
Staff member removed successfully.
User ID D003 removed.
```

### 1.4.2 View Appointment Details

Admins can see the details of any appointments through the second menu option. They also have the option to filter appointments based on doctors or patients. Alternatively, they can also search for a specific appointment through Appointment ID

```

=====
Hello Sarah Lee, welcome to the Administrator menu
1. View and Manage Hospital Staff
2. Manage Appointments
3. View and Manage Medication Inventory
4. Approve Replenishment Requests
5. Change Password
6. Logout
=====
2
1. View Appointment Details
2. Manage Appointment Details
3. Back
Select option:
1
-----View Appointment Details-----
1. Filter by doctor
2. Filter by patient
3. Filter by Appointment ID
4. Back
Select option:
1

```

```

Enter doctor ID:
D001
Viewing appointments for D001 John Smith

Appointment ID : Appt1731922856076
Date           : Mon, 18 Nov 2024
Time           : 09:00
Patient        : Alice Brown
Status         : Completed
Outcome        : Chicken pox

```

### 1.4.3 View and Manage Medication Inventory

Admins are able to alter medication inventory through the third menu. They can add new medications or edit the details of an existing medication.

```

Select action:
1. Add Medication
2. Update Medication Fields
3. Back
2
Updating medication...
---- Update Medication ----
Enter name of medication to update:
Paracetamol
Name           : Paracetamol
Quantity       : 100
Low Stock Alert : 20
Select item to edit:
1. Name
2. Quantity
3. Low Stock Alert
4. Back
2
Enter new medicine quantity:
150
Quantity changed successfully!

```

The changes are then reflected in the inventory.

```

Select action:
1. View Medicine Inventory
2. Manage Medicine Inventory
3. Back
1
Viewing medication...
=====
Medication      Amount    Stock lvl
=====
Paracetamol     150      OK
-----
Ibuprofen       50       OK
-----
Amoxicillin     75       OK
-----
back            4        OK
-----

```

### 1.4.4 Approve Replenish Request

After a pharmacist submits a request to replenish a medication, an administrator needs to approve the request through the fourth menu. Upon doing so, a list of pending requests is shown. After approval, the updated medicine inventory is displayed as below:

```
----- Approve replenishment requests -----
1. View approved replenishment requests
2. View pending replenishment requests
3. Approve pending replenishment requests
4. Back
Enter selection:
3
Pending replenishment requests:
restockID  Medicine      Amount      Status
1          Paracetamol    50          Pending_Admin
Enter Restock ID of request to approve:
1
50 has been added to Paracetamol
=====
Medication      Amount      Stock lvl
=====
Paracetamol      150         OK
=====
Ibuprofen        50          OK
=====
Amoxicillin      75          OK
=====
```

## 1.5 Login

### 1.5.1 First-Time Login and Password Change

Upon first login, users will be prompted to change their password.

```

+-----+
| Hospital |
| Manager |
+-----+

Enter Username:
P001
Enter Password:
password
Please change your password.
Enter new password:
p
Confirm new password:
p
Password changed!
Welcome!
```

On subsequent logins, users will be required to make use of their new password.

```
+ Hospital
| Manager
|
Enter Username:
P001
Enter Password:
p
Welcome!

=====
Hello Mark Lee, welcome to the Pharmacy menu
1. All medication orders
2. Display stock
3. Request restock menu
4. Request log
5. Change Password
6. Log off
=====
Enter selection:
```

### 1.5.2 Login with Incorrect Credentials

When users put in the wrong password or username, login will fail and user is prompted to enter their login details again.

```
+ Hospital
| Manager
|
Enter Username:
P001
Enter Password:
p
Username or password incorrect! Please try again.
```