## Things to do :

Write usecase for

Login(patient , nurse , doctor)

Manage staff(admin)

Manage Infrastructure.(admin)

Schedule Update(from doctor)

## UC-1: Register Patient

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| **Use Case ID:** | **UC-1** |
| **Use Case Name:** | Register Patient |
| **Actor(s):** | Primary Actor: Patient |
| **Goal/Actor Goals:** | A Patient wants to create an account in the system. |
| **Description/Summary:** | This use case allows the Patient to create account in the system. This includes add information and records such as Unique Health card Number and personal details. |
| **Preconditions:** | N/A |
| **Post-conditions:** | New Patient Account is created with a unique ID. |
| **Basic Flow:** | 1. The Patient wish to create account in the system.  2. The system request for his/her personal details.  3. Once the patient provides the requested information, one of the sub flows is executed. If he/she selected “Save”, Save subflow is executed. If he/she selected “Update”, the Update subflow is executed.  1.1 Save  The system requests that the patient entered the account information. This includes: Health Card Number, Gender, Name, Phone, Username, Password.   1. Patient enters the required information values, and requests the system to save them. 2. Once the patient provides the requested information, the system validates the uniqueness of username/password. 3. System creates the new account, and notifies the patient that the account has been created.   1.2 Update Account   1. The system displays existing account details and requests the patient to update his details. 2. The patient provides the updated information in the desired field. The system updates and notifies the patient that the record has been updated. |
| **Alternative Flows:** | 1.1.2a username already exists:  If, in the Save sub-flows, the username already exists, the system will ask the patient to select a new username, and the system creates the account with new username. 1.2.2a Username not found for Update Record If, in the Update Account sub-flow, the username doesn’t exist in the system, the system notifies that no such user exists with such username and asks the patient to enter a valid username. |

## UC-2: Make appointment

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| **Use Case ID:** | **UC-2** |
| **Use Case Name:** | Make Appointment. |
| **Actor(s):** | Primary Actor: User(Patient, Doctor , Nurse) |
| **Goal/Actor Goals:** | A User wants to book an appointment. |
| **Description/Summary:** | This use case allows the Patient to book an appointment in the system. This includes selecting a type of visit, time, date and doctors preference. |
| **Preconditions:** | User should be logged-in. |
| **Post-conditions:** | User gets an appointment. |
| **Basic Flow:** | 1. The User wish to book an appointment in the system.  2. The User selects a type of visit and date.  3. The system displays the available doctors and their available timeslots.  4. The user selects his preference for the doctor and timeslot.  5. After validating that the user has a valid Health Card Number, and the annual visit are not more than 1, one of the sub flows is executed. If he/she selected “Save”, Save subflow is executed. If he/she selected “Confirm”, the Confirm subflow is executed.  7. If the User selects the confirm button the system will ask for payment details through credit card.  8. The User will provide the details.  9. After the validating the credentials the system will book the appointment and provides the receipt. |
| **Alternative Flows:** | 5.a More than one annual checkup :  1. The system will notify the patient that its annual healthcheck up has been already done hence appointment will be unsuccessful.  5.b Health Card Number is Invalid as Patient  1. The system prompts the patient to log in to the system.  2. The patient logins into the system.  3. The system validates the Health Card Number associated with the logged-in customer details and the “Confirm” workflow continues after it.  5.c Health Card Number is Invalid for Nurse  1. The system asks for the Health Card Number for the patient.  2. The nurse updates the Health Card Number of the patient.  3. The system validates the Health Card Number and the “Confirm” workflow continues after it.  5.c Health Card Number is Invalid for doctor.  1. The system asks for the Health Card Number for the patient.  2. The doctor updates the Health Card Number of the patient.  3. The system validates the Health Card Number and the “Confirm” workflow continues after it. 5.a If the user selects Save 1. The system saves the appointment in the system and notifies that the patient should confirms the Appointment within 4 hours of saving it. |

## UC-3: Check Appointment

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| **Use Case ID:** | **UC-3** |
| **Use Case Name:** | Check Appointment |
| **Actor(s):** | Primary Actor: Patient. |
| **Goal/Actor Goals:** | A Patient wants to check the appointment. |
| **Description/Summary:** | This use case allows the Patient to Check Appointment in the system. |
| **Preconditions:** | N/A |
| **Post-conditions:** | Patient is able to view the available Appointment. |
| **Basic Flow:** | 1. The User wish to Check the Appointment.  2. The User selects a type of visit, date.  3. Once the patient provides the requested information, the system will show the available free timeslots of all the doctor. |

## UC-4: Update Appointment.

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| **Use Case ID:** | **UC-4** |
| **Use Case Name:** | Update Appointment. |
| **Actor(s):** | Primary Actor: Patient. |
| **Goal/Actor Goals:** | A Patient wants to Update an Appointment. |
| **Description/Summary:** | This use case allows the Patient to Update the appointment. |
| **Preconditions:** | Patient is logged-in. |
| **Post-conditions:** | The Patient should be able to update the appointment as required. |
| **Assumption and Constraints** | Updated appointment will be of same “type of visit” as previous appointment. |
| **Basic Flow:** | 1. The Patient opens the History of appointment.  2. The system will provide the previous confirmed appointments.  3. Once the patient selects the appointment which is to be updated, the system will ask the new preference.  4. The system records the type of visit and date.  5. The system will show the availability of the free time slot for all doctors on particular date.  6. The User is allowed to choose the appointment.  7. After validating that the user has annual visit not more than 1, one of the sub flows is executed. If he/she selected “Save”, Save subflow is executed. If he/she selected “Confirm”, the Confirm subflow is executed.  8. If the User selects the confirm button the system will book the Updated appointment and provides the receipt. |
| **Alternative Flows:** | 3.a More than one annual checkup :  1. The system will notify the patient that its annual healthcheck up has been already done hence appointment will be unsuccessful. 6.a If the user selects Save 1. The system saves the appointment in the system and notifies that the patient should confirms the Appointment within 4 hours of saving it. |

## UC-5: Update Appointment by ID.

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| **Use Case ID:** | **UC-5** |
| **Use Case Name:** | Update Appointment by ID. |
| **Actor(s):** | Primary Actor: Nurse. |
| **Goal/Actor Goals:** | A Nurse wants to Update an Appointment. |
| **Description/Summary:** | This use case allows the Nurse to Update the appointment. |
| **Preconditions:** | Nurse is logged-in. |
| **Post-conditions:** | The Nurse should be able to update the appointment as required. |
| **Assumptions and Constraints** | Updated appointment will be of same “type of visit” as before. |
| **Basic Flow:** | 1. The Nurse opens the History of appointment search by Appointment Number.  2. The system will provide the previous confirmed appointments.  3. Once the nurse selects the appointment which is to be updated, the system will ask the new preference.  4. The Nurse selects a type of visit and date.  5. The system displays the available doctors and their available timeslots.  6. The Nurse selects Patients preference for the doctor and timeslot.  7. After validating that the user has a valid Health Card Number, and the annual visit are not more than 1, one of the sub flows is executed. If he/she selected “Save”, Save subflow is executed. If he/she selected “Confirm”, the Confirm subflow is executed.  8. If the User selects the confirm button the system will book the Updated appointment and provides the receipt. |
| **Alternative Flows:** | 1.a If the appointment ID does not exists.   1. The system will notify the Nurse that the desired appointment does not exists.   7.a More than one annual checkup :  1. The system will notify the Nurse that the patient’s annual healthcheck up has been already done hence booking of appointment will be unsuccessful.  *7.*b If the Nurse selects Save  1. The system saves the appointment in the system and notifies that the patient should confirms the Appointment within 4 hours of saving it. |

## UC-6: Cancel Appointment.

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| **Use Case ID:** | **UC-6** |
| **Use Case Name:** | Cancel Appointment. |
| **Actor(s):** | Primary Actor: Patient. |
| **Goal/Actor Goals:** | A Patient wants to Cancel an Appointment. |
| **Description/Summary:** | This use case allows the Patient to Cancel the appointment. |
| **Preconditions:** | Patient is logged-in. |
| **Post-conditions:** | The Patient should be able to cancel the appointment. |
| **Basic Flow:** | 1. The Patient opens the History of appointment.  2. The system will provide the previous confirmed appointments.  3. Once the patient selects the appointment which is to be cancelled , the system will check if the selected appointment is more than 24 hours from present time.  4. The system will redeem the payment and will provide a receipt. |
| **Alternative Flows:** | 4.a If appointment to be cancelled is less than 24 hours from the present time :  1. The system will notify the patient that this appointment cannot be cancelled. |

## UC-7: Cancel Appointment by ID.

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| **Use Case ID:** | **UC-7** |
| **Use Case Name:** | Cancel Appointment by ID. |
| **Actor(s):** | Primary Actor: Nurse. |
| **Goal/Actor Goals:** | A Nurse wants to Cancel an Appointment. |
| **Description/Summary:** | This use case allows the Nurse to Cancel the appointment. |
| **Preconditions:** | Nurse is logged-in. |
| **Post-conditions:** | The Nurse should be able to cancel the appointment. |
| **Basic Flow:** | 1. The Nurse opens the appointment search by Appointment ID.  2. The system will provide the confirmed appointment.  3. Once the Nurse selects the appointment which is to be cancel , the system will check if the appointment to be cancelled is more than 24 hours from present time.  4. The system will redeem the payment to patient and will provide a receipt to Nurse. |
| **Alternative Flows:** | 4.a If appointment to be cancelled is less than 24 hours from the present time :  1. The system will notify the Nurse that the Patient appointment cannot be cancelled. |