

1-Case: Submit medical info



Summary: User submits medical information

Actors: Patient

Pre-conditions (Entry conditions):

- User is on the website

Post-conditions (Exit conditions):

- Information is sent to HSP staff to be reviewed and approved or denied.

Scenario:

1. Show option to register
2. Display categories for registration
 - a. Name
 - b. Date of Birth
 - c. Address
 - d. Social Security Number
 - e. Gender
 - f. Phone Number
 - g. EID
 - h. Insurance Information
 - i. Medical History
 - j. Enter all information for required categories
3. Register

Special Requirements (exceptions):

- User can cancel and close webpage at any time
- User can choose not to validate information

2-Case: Login



User

Summary: User logs into their account

Actors: patient, nurse, doctor, lab staff, HSP staff and admin user

Pre-conditions (Entry conditions):

- User is on the website
- Patient has already registered and doctor, nurse, lab staff, and HSP staff already have login information within the database.

Post-conditions (Exit conditions):

- The logs have been updated accordingly.

Scenario:

1. The User will go to the website.
2. The User will then click on the *login* button at the top right corner of the page.
3. The User will enter his or her email and password.
4. The login information will be verified by the database.
5. If information is verified, the User will be presented with their patient control panel.

Special Requirements (exceptions):

- User doesn't login.

3-Case: Alert IPMS



Patient

Summary: User severity thresholds are above a certain threshold and an alert PMS is sent

Actors: patient

Pre-conditions (Entry conditions):

- The user must be registered into the database.
- The user's current severity levels must be in the system and be currently monitored

Post-conditions (Exit conditions):

- The alert is sent to the IPIMS, and doctor is notified.

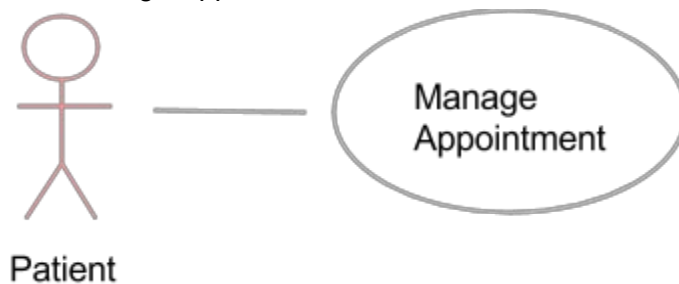
Scenario:

1. The Patient selects *Send Emergency Alert* from the Patient Control Panel.
2. The system displays a page requesting health conditions and patient status fields to notify the Doctor.
3. When they click the button, the alert is sent and the doctor is notified.
4. The system returns the Patient to the Patient main page

Special Requirements (exceptions):

- User can exit the web page
- User does not save changes to medical record

4-Case: Manage Appointment



Summary: User manages appointments

Actors: patient

Pre-conditions (Entry conditions):

- The user must be logged in.

Post-conditions (Exit conditions):

- Appointment is updated and user exits panel.

Scenario:

5. User selects the 'Appointment' button from side panel

Special Requirements (exceptions):

- User Exits panel without updating
- User wants to update a second appointment

5-Case: Schedule appointment



Summary: User schedules an appointment to visit the clinic

Actors: patient

Pre-conditions (Entry conditions):

- User must be logged in
- Accessed patient control panel

Post-conditions (Exit conditions):

- System confirms the appointment, doctor is notified, patient is notified of scheduled appointment.

Scenario:

1. Patient logs into website
2. Patient selects to Schedule Appointment.
3. The system presents a list of doctors to select from.
4. Patient selects a doctor.
5. The system confirms the appointment and sends a notification to the doctor.
6. The system notifies the Patient that the appointment has been successfully scheduled and returns the user to the Patient main page.

Special Requirements (exceptions):

- User can exit the web page
- User does not save changes to appointments

6-Case: Change appointment



Patient

Summary: User changes an appointment to visit the clinic

Actors: patient

Pre-conditions (Entry conditions):

- The patient must have a previous scheduled appointment.

Post-conditions (Exit conditions):

- An appointment has been changed/canceled and a notice has been sent.

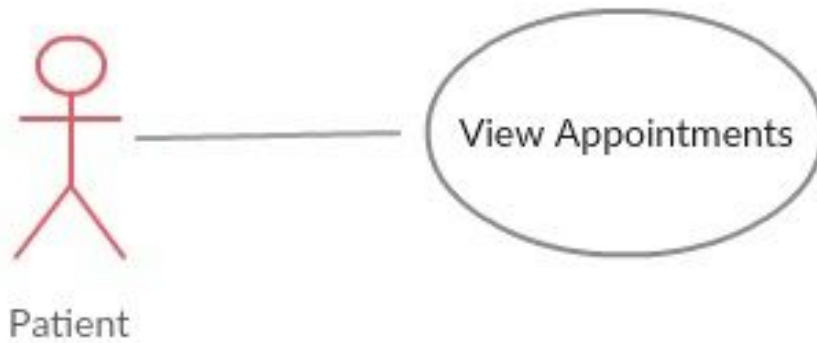
Scenario:

1. The User selects to *View Appointments*.
2. The system displays all of the user's currently scheduled appointments.
3. From here, the Patient can additionally choose to *change appointment* or *cancel appointment*.

Special Requirements (exceptions):

- User can exit the web page
- User can cancel changes to appointment

7-Case: View appointment



Summary: User views an appointment to visit the clinic

Actors: patient

Pre-conditions (Entry conditions):

- The patient must have a previous scheduled appointment.
- The patient must be on the manage Appointments tab.

Post-conditions (Exit conditions):

- An appointment has been loaded and viewed.

Scenario:

4. The User selects to *View Appointments*.
5. The system displays all of the user's currently scheduled appointments.

Special Requirements (exceptions):

- User can exit the web page

8-Case: Update Health Conditions

Summary: User update's health conditions of patient

Actors: nurse, doctor, patient

Pre-conditions (Entry conditions):

- The user must be logged in
- The specified patient must be registered into the database.

Post-conditions (Exit conditions):

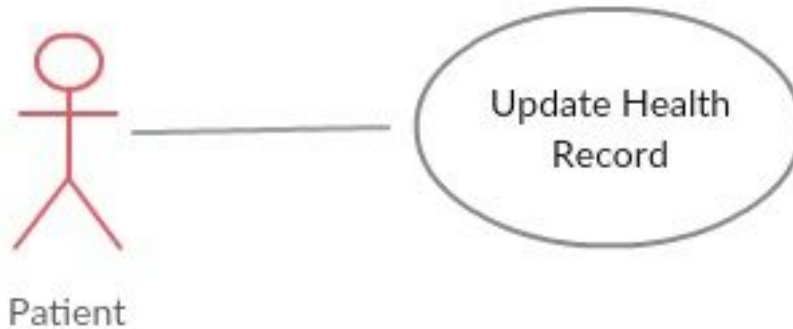
- The changes are saved and submitted into the database

Scenario:

1. The user will click “Login” at the top right of the screen and enter appropriate credentials
2. The user will click on “Search Directory”
3. The user will search for the patient
4. The user will click on the patient's profile and from there can access medical records
5. The user will click on “Update Health Conditions

Special Requirements (exceptions):

- After step 1, if user is patient there will be a control panel where patient can view medical records.
- User can exit the web page
- User can cancel changes to health records

9-Case: Update Health Record

Summary: User updates/changes medical history

Actors: patient

Pre-conditions (Entry conditions):

- User must be a patient, and they must be registered in the database.

Post-conditions (Exit conditions):

- The changes will be saved and the user will be returned to their control panel

Scenario:

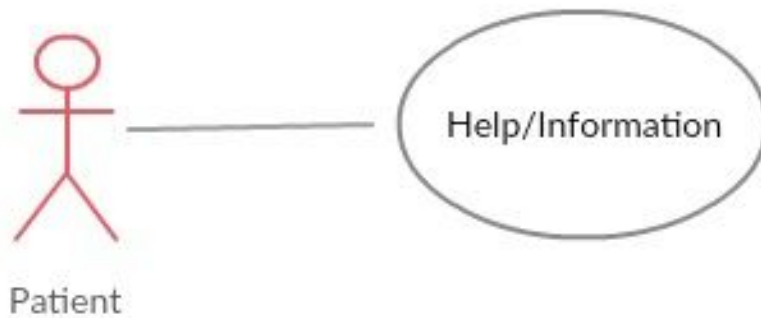
1. The user will go to the website

2. The user will click “login” at the top right corner of the page.
3. The user can then click on “Edit Medical Info”
4. The user can then freely edit the corresponding fields.

Special Requirements (exceptions):

- User can exit the web page
- User does not save changes to medical record

10-Case: Help/Information



Summary: User requires help and or information when navigating the web page

Actors: patient

Pre-conditions (Entry conditions):

- The patient has accessed patient control panel or home page, and the user must be a patient.

Post-conditions (Exit conditions):

- Selected help/information is available to patient

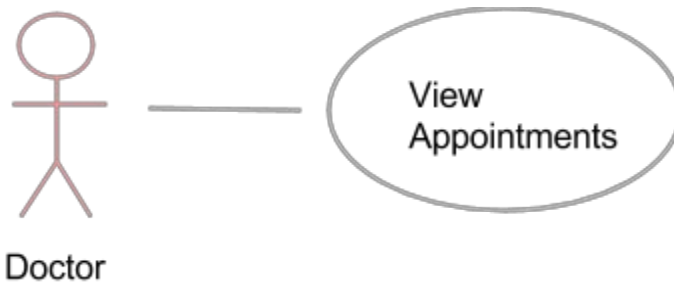
Scenario:

1. The Patient selects *Help\Information*
2. The system displays a page containing commonly asked questions and guides on navigating the Patient Control Panel.
3. When they are finished, the Patient selects *Return*.
4. The system returns the Patient to the Patient main page.

Special Requirements (exceptions):

- User can exit the web page

11-Case: View Appointments



Summary: The user will select to “*View Appointments*” from the User’s portal page.

Actors: doctor

Pre-conditions (Entry conditions):

- The user must be a doctor, and be logged in.

Post-conditions (Exit conditions):

- A schedule of appointments are displayed on the screen

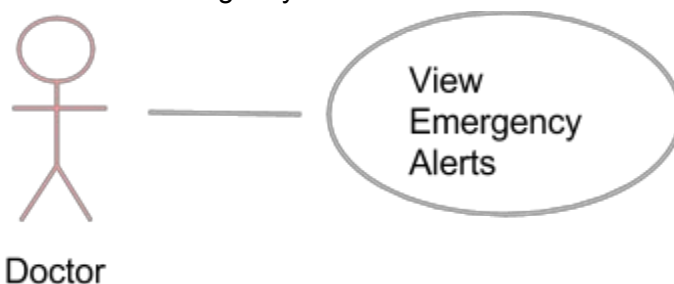
Scenario:

1. The user will select to “*View Appointments*” from the User’s portal page.
2. The database will then retrieve the information (appointment data) and display all appointments
3. From here, The user, additionally, can choose to “Change An Open Appointment”, “Cancel Appointment”, or “Create a New Appointment”.

Special Requirements (exceptions):

- User can exit the web page

12-Case: View Emergency Alert



Summary: User has received an alert from Alert IPMS.

Actors: doctor

Pre-conditions (Entry conditions):

- The user must be a doctor, and be logged in.

Post-conditions (Exit conditions):

- Emergency alert information is displayed to the doctor.

Scenario:

1. The user will select to “*View Emergency Alerts*” from the User’s portal page.
2. The database will then retrieve the information and display each patient that has an emergency case.
3. From here, The user (health care personnel), additionally, can choose to resolve the case and move the emergency out of the alerts panel.

Special Requirements (exceptions):

- User can exit the web page

13-Case: Upload Lab Reports



Lab Staff

Summary: Staff member uploads relevant lab report data for the patient into the system.

Actors: lab staff

Pre-conditions (Entry conditions):

- User is on the lab report page and selects upload lab reports.

Post-conditions (Exit conditions):

- Lab records information had been uploaded.

Scenario:

1. The lab staff member will select “Upload Lab Report” from the control panel.
2. The lab staff will choose patient
3. Enter proper lab data from the tests.
4. Once the lab data is submitted, it will store into the database and be accessible by the doctor and patient for future use.

Special Requirements (exceptions):

- User can exit the web page.

14-Case: View Lab Reports



Lab Staff

Summary: User views lab reports

Actors: lab staff

Pre-conditions (Entry conditions):

- User is on the lab report page and selects view lab reports.

Post-conditions (Exit conditions):

- Lab records information had been displayed.

Scenario:

1. User will select the “Lab Reports” link and will be redirected to the “Lab” portal page.
2. The user can then select to:
 - a. View Lab Report” of a selected patient
3. The user can exit back to the main “Lab” portal page by hitting the “Exit” Button

Special Requirements (exceptions):

- User can exit the web page.

15-Case: Edit Lab Reports



Lab Staff

Summary: Staff member edits relevant lab report data for the patient into the system.

Actors: lab staff

Pre-conditions (Entry conditions):

- User is on the lab report page and selects edit lab reports.

Post-conditions (Exit conditions):

- Lab records information had been edited.

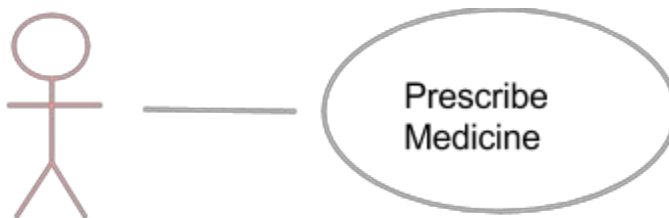
Scenario:

5. The lab staff member will select “edit Lab Report” from the control panel.
6. The lab staff will choose patient
7. edit proper lab data from the tests.
8. Once the lab data is edited, it will store into the database and be accessible by the doctor and patient for future use.

Special Requirements (exceptions):

- User can exit the web page.

16-Case: Prescribe Medication



Doctor

Summary: User prescribes medicine to patient

Actors: Doctor

Pre-conditions (Entry conditions):

- Doctor selects a patient and accessed Prescribe Medicine.

Post-conditions (Exit conditions):

- Prescription is confirmed and saved.

Scenario:

1. The user will select *"Prescribe Medicine"*
2. The user will then be redirected to the *"Search"* page.
3. The user will then be prompted to enter either the patient ID or patient first and last name.
4. The database will be searched for the inputted patient name or patient ID.
5. If the patient is found, The user will then enter this information and be taken to the prescription form page. This page will include four input fields (patient name, medicine name(s), medicine ID, and a doctor signature field).
6. The user must enter in applicable information and will click the "Confirm Prescription" button, which will store the prescription information in the database.

Special Requirements (exceptions):

- In step 3, doctor can either enter medicine's name or ID.
- Doctor cancels prescription and exits page.

17-Case: View Patient Data



Doctor

Summary: User update's health conditions of patient

Actors: doctor

Pre-conditions (Entry conditions):

- The user is a doctor, and must be logged in.

Post-conditions (Exit conditions):

- Patient data is displayed on the screen.

Scenario:

1. The user will select “*View Patient Data*”
2. The user will then be redirected to the “*Search*” page.
3. The user will then be prompted to enter either the patient ID or patient first and last name.
4. The database will then search for the patient data and return the applicable patient data to the user. If the patient data is not found from the search, the system will display to the user, that the patient does not exist in the current database.

Special Requirements (exceptions):

- User can exit the web page

18-Case: Upload medical reports



HSP Staff

Summary: User uploads medical reports to IPMS

Actors: HSP staff

Pre-conditions (Entry conditions):

- Staff selects a patient and accessed Prescribe Medicine.

Post-conditions (Exit conditions):

- Prescription is confirmed and saved.

Scenario:

1. The HSP staff member will receive a list of new medical reports to enter into the system from their control panel.

2. From here, they can view the list and choose to accept the submission or deny the submission into the database of the newly entered medical records.
3. The medical records will be added into the database and accessible by the appropriate staff members.

Special Requirements (exceptions):

- In step 3, doctor can either enter medicine's name or ID.
- Staff cancels prescription and exits page.

19-Case: Update Medical History



HSP Staff

Summary: HSP staff selects a patient's data and accesses the patient history button.

Actors: HSP staff

Pre-conditions (Entry conditions):

- The user is an HSP staff, and the patient's history is in the database.

Post-conditions (Exit conditions):

- Patient's Medical History had been updated in the database

Scenario:

1. The HSP staff member will view the list of available patients to edit.
2. From here, they can access the medical history of each individual patient and append new items to the history.
3. The HSP staff member will save the changes so they can be viewed by the appropriate members in the system.

Special Requirements (exceptions):

- The HSP staff may abandon the operation at any time.

20-Case: Generate Statistical Report



HSP Staff

Summary: User selects 'Generate Statistics Report' on side panel.

Actors: HSP staff

Pre-conditions (Entry conditions):

- User must be HSP staff, and be logged in.

Post-conditions (Exit conditions):

- Statistical reports generated and displayed.

Scenario:

1. The HSP staff member will enter their main control panel and select "Generate Statistical Report Analysis"
2. From here, the system will generate each individual report and prepare the data to be presented to the HSP staff member.
3. The report data will display infographics and relevant report data back to the user relating to population data, patient type data, admission rate data and health outcomes.

Special Requirements (exceptions):

- HSP staff can choose not to generate statistical reports

22-Case: Retrieve Patient Medical Information



HSP Staff

Summary: User selects a patient's data and accesses the patient information button on side panel

Actors: HSP staff

Pre-conditions (Entry conditions):

- User must be HSP staff, and be logged in.

Post-conditions (Exit conditions):

- HSP staff can use patient medical information to register his/her information.

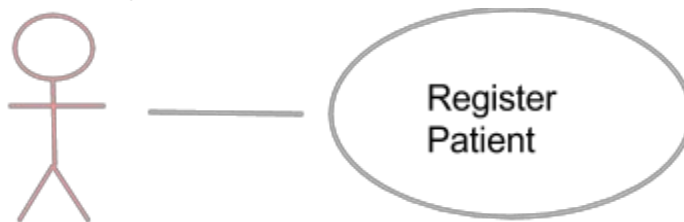
Scenario:

1. The HSP staff member will enter their main control panel and select search for patient by ID.
2. From here, they can search for the patient by ID and will yield the associated medical data for the patient.
3. The HSP staff member will choose to view the data or return back to the control panel.

Special Requirements (exceptions):

- HSP staff can abandon at any time, or not log in.

23-Case: Register Patient Information



HSP Staff

Summary: User selects 'View open applications' on side panel.

Actors: HSP staff

Pre-conditions (Entry conditions):

- User must be HSP staff, and be logged in.

Post-conditions (Exit conditions):

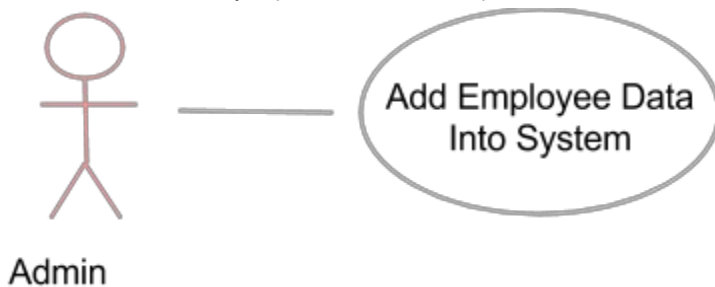
- Patient's data stored into the system, username and password will be create and sent to the patient via email.

Scenario:

1. The HSP staff member will enter their main control panel and select “View open applications”
2. From here, they can see the open applications for new patients and choose to submit or deny them.
3. Once they accept the patient, their data will be stored into the system and a username and password will be sent to them via email.

Special Requirements (exceptions):

- The HSP staff may abandon the operation at any time.

24-Case: Add Employee Data Into System

Summary: User clicks on “Add Employee Data”

Actors: Admin

Pre-conditions (Entry conditions):

- Admin has to be logged in and has appropriate permissions

Post-conditions (Exit conditions):

- Employee data is saved into the database and User is returned to the control panel

Scenario:

1. The admin user will select “Register New Employee” from the control panel.
2. From here, the form will populate asking for role, employee ID and name.
3. Once this data is submitted, it will be saved so the employee can login with their information.

Special Requirements (exceptions):

1. The user chooses not to submit data
2. The user exits webpage prematurely before submitting data