

*PRIMS: Patient Record Interactive Management System*

Project Documentation Submitted to the Faculty of the

School of Computing and Information Technologies

Asia Pacific College

In Partial Fulfillment of the Requirements for

Systems Analysis and Detailed Design

MSYADD1

By

|  |  |
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2024

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**Executive Summary**

A web-based system is being developed for Asia Pacific College's (APC) clinic to address several operational challenges. Currently, the clinic struggles with managing and storing physical medical records, preparing monthly summary reports, scheduling appointments effectively, and communicating schedule updates promptly. These inefficiencies lead to time consumption and potential schedule conflicts.

The primary objective of this project is to create and deploy a comprehensive system that facilitates student check-ins, manages medical records electronically, tracks medication inventory, and enables online appointment scheduling. By implementing these features, the clinic aims to streamline its processes and enhance the experience for both staff and patients.

The project is scheduled to span the academic year from the third term of A.Y. 2023-2024 in March 2024 to the third term of A.Y. 2024-2025 in June 2025. The target audience includes APC students, staff, faculty members, and guests. The expected outcomes include the successful development and deployment of the clinic system, ensuring it meets the needs and garners satisfaction from the entire APC community.

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# **Introduction**

## **Project Context**

The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.

## **Statement of the Problem**

The APC Clinic is currently facing several challenges:

1. **Slow retrieval of medical records:** Retrieving a specific medical record or document is cumbersome because all records are stored in a file cabinet and some cabinets are overloaded, leading to difficulties like said, finding a specific record.
2. **Difficulty in managing appointments**: Teams is the current channel for nurse Ana to communicate with patients and is not the most efficient platform for managing appointments. It is difficult to track appointment history, reschedule appointments, or receive appointment confirmations due to the limited features of teams.
3. **Time-Consuming Report Writing:** Writing monthly summary reports is labor-intensive as it involves gathering data from previous months, which are recorded on paper and often hard to locate.
4. **Absence of Inventory System:** Due to an absence of inventory system, our nurse always experiences stockouts. This also leads to potential harm for unchecked expired medications and increased costs due to overstocking

The team had an interview with the clinic, and these are the questions that we discussed:

1. Which processes in the APC Clinic need automation?
2. What would be the impact of automating these processes on the quality of patient care at the APC Clinic?
3. How can the clinic streamline the management and storage of medical records?
4. What solutions can improve the organization of the appointment scheduling system for physical check-ups and dental exams?
5. How can the process of writing monthly summary reports be made more efficient?
6. What methods can be implemented to ensure timely updates for users when their schedules or appointments are cancelled?

## **Objectives**

This project's main aim is to develop an automated clinic system for the Asia-Pacific College (APC) Clinic. This system will streamline and digitalize the clinic's processes to improve efficiency, accuracy, and patient care. The key features and objectives of the system include the following:

1. Retrieve medical records faster.
2. Allow patients to schedule appointments online and receive timely notifications.
3. Generate summary of reports faster.
4. Track and manage the clinic’s medication and supply inventory.

Specific Goals:

1. **Locate Medical Records in 2 Minutes:** By implementing an electronic health records (EHR) system, the project aims to reduce the time taken to locate a specific medical record to within 2 minutes. This will enhance the clinic’s efficiency in handling patient information and providing timely care.
2. **Zero Conflicts in Schedule:** The online appointment scheduling system will ensure there are no conflicts in schedules by providing real-time updates and notifications to patients and healthcare providers. This system will help avoid double-booking and ensure smooth appointment management.
3. **Generate Monthly Summary Reports in About 2 Minutes:** The automated reporting tools will compile data from the clinic’s operations and generate comprehensive monthly summary reports in approximately 2 minutes. This will significantly reduce the time and effort required for manual report generation, allowing staff to focus more on patient care.

## **Significance of the Project**

This project is significant in its potential to revolutionize healthcare delivery at the Asia Pacific College (APC) Clinic, enhancing patient care and streamlining administrative processes. By achieving the outlined objectives, the project aims to improve the efficiency and accuracy of data management while maintaining order within the clinic. The benefits of this project extend to several key stakeholders:

**APC Community.** Students and faculty members will benefit from a more convenient and efficient appointment scheduling system. They can easily check the availability of the nurse and doctor and book appointments online without the need to visit the clinic in person. The system will also provide real-time updates on appointment statuses and available time slots, making healthcare services more accessible.

**APC Clinic.** The school nurse and doctor will have quick and easy access to medical records and patient data, allowing for more efficient management of patient care. The automated medication inventory system will ensure accurate tracking of medication supplies, reducing the risk of stockouts and overstocking. A digital database will facilitate the easy updating and retrieval of patient information, improving the overall organization and effectiveness of clinic operations.

**Parents and APC Alumni.** Guests, specifically parents and APC alumni, will also have access to this project. Much like the students and faculty members, they will be able to access the system and its features as well.

**Future Researchers.** This project will serve as a valuable foundation for future research efforts, providing a robust framework that can be modified and expanded. Future researchers can build on this system, incorporating additional features and systems to further enhance healthcare services at the APC Clinic.

## **Scope and Limitations**

The project will focus on creating a system encompassing several key features including appointment scheduling, allowing the patients to book appointments online. Medical record management is also integrated, digitizing and securely storing patient health records for quick access by clinic staff. Inventory tracking is automated, updating stock levels in real-time and allowing the clinic staff to be aware of when medical supplies are low to prevent shortages or when the supplies are already near expiration The system can also generate monthly summary reports on clinic activities, such as patient visits, common health issues, and services/supplies utilization, which can aid in decision-making and planning of the clinic. Automated notification alerts are also included in the system to update and remind patients about their appointments. Lastly, to ensure the security and confidentiality of the information of the patients, our system will comply with HIPAA regulations and the Data Privacy Act of 2012. We will include strict access controls and data encryption to protect sensitive health information from unauthorized access and breaches.

Our clinic system will only be limited to individuals associated with Asia Pacific College. Only the students, parents, alumni, guests, faculty, and staff of APC can access the system. the system. Also, since our clinic system is web-based, the users will need an internet connection to access the system which can only be accessed through desktops, laptops, and mobile phones. The PRIMS project will undergo meticulous documentation and development spanning 12 months, equivalent to one academic year, commencing from the third term of the 2023-2024 school year and extending through the first to third terms of the 2024-2025 school year.

# **Data Flow Diagrams**

## **Level 0**

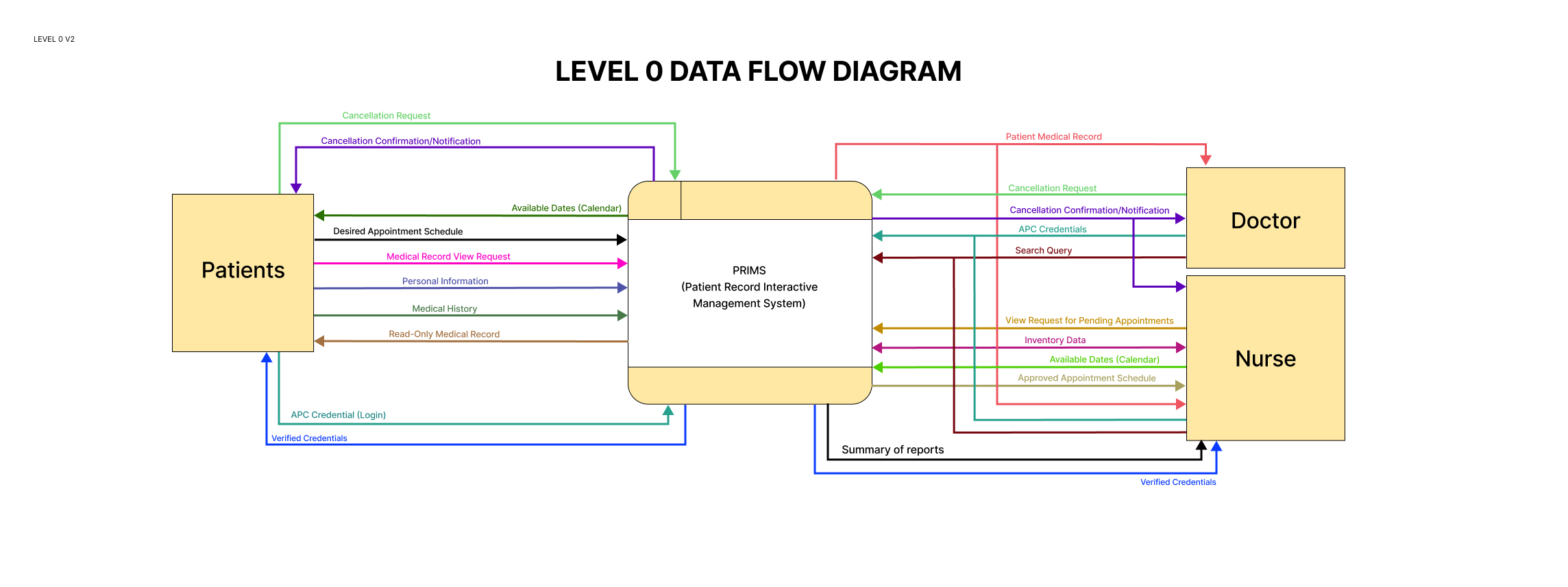


Figure 1 Level 0 Data Flow Diagram

## **Level 1**

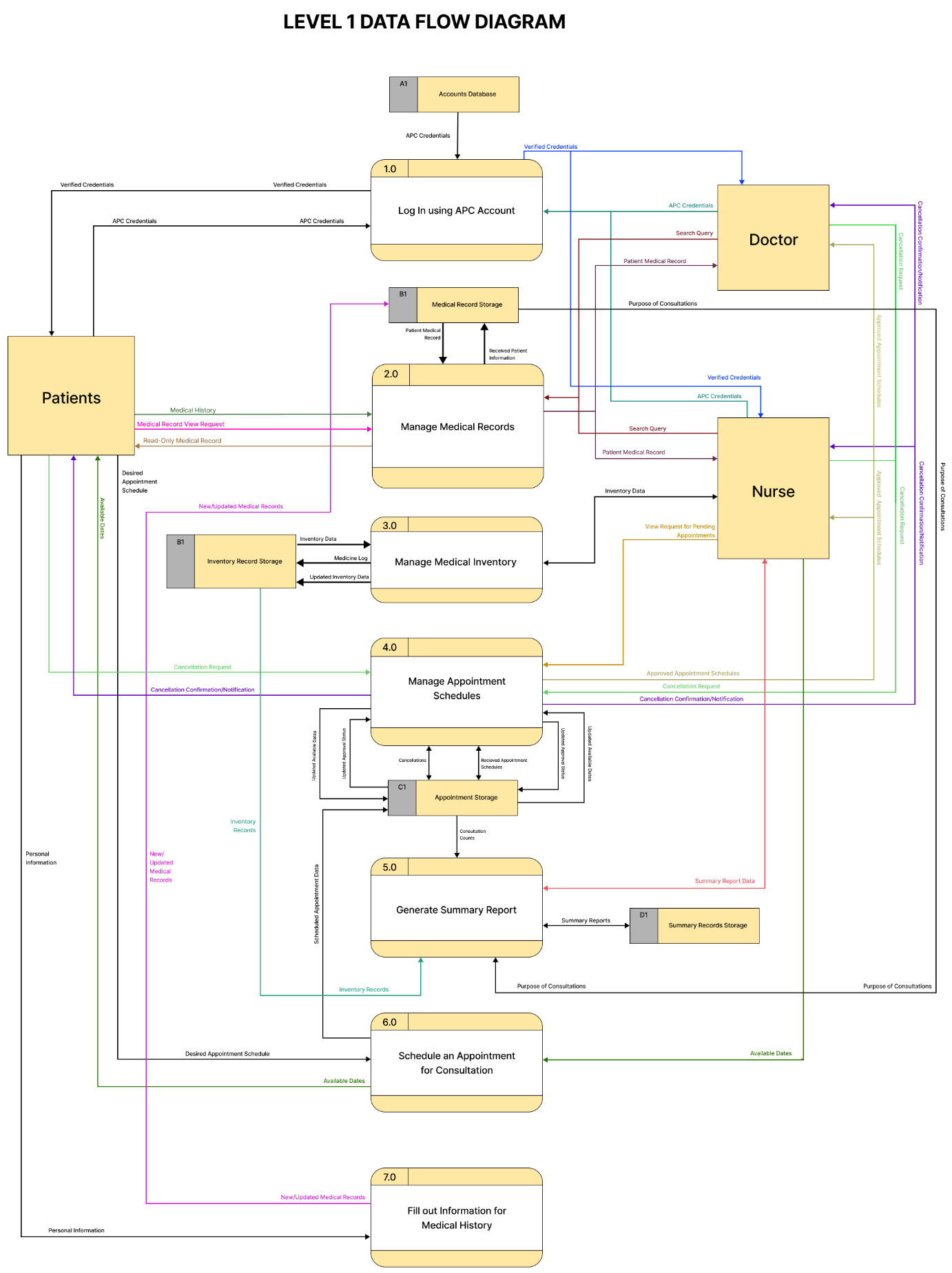


Figure 2 Level 1 Data Flow Diagram

## **Level 2**

### 1.0 Log in Using APC Account

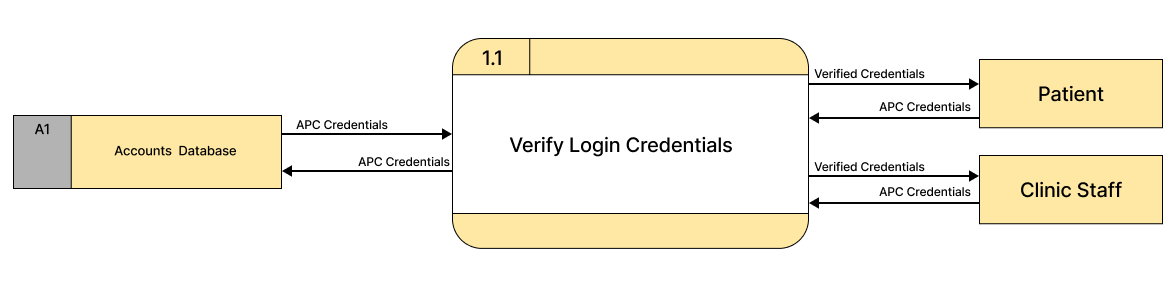


Figure 3 Level 2 DFD - 1.0 Log in Using APC Account

### 2.0 Manage Medical Records

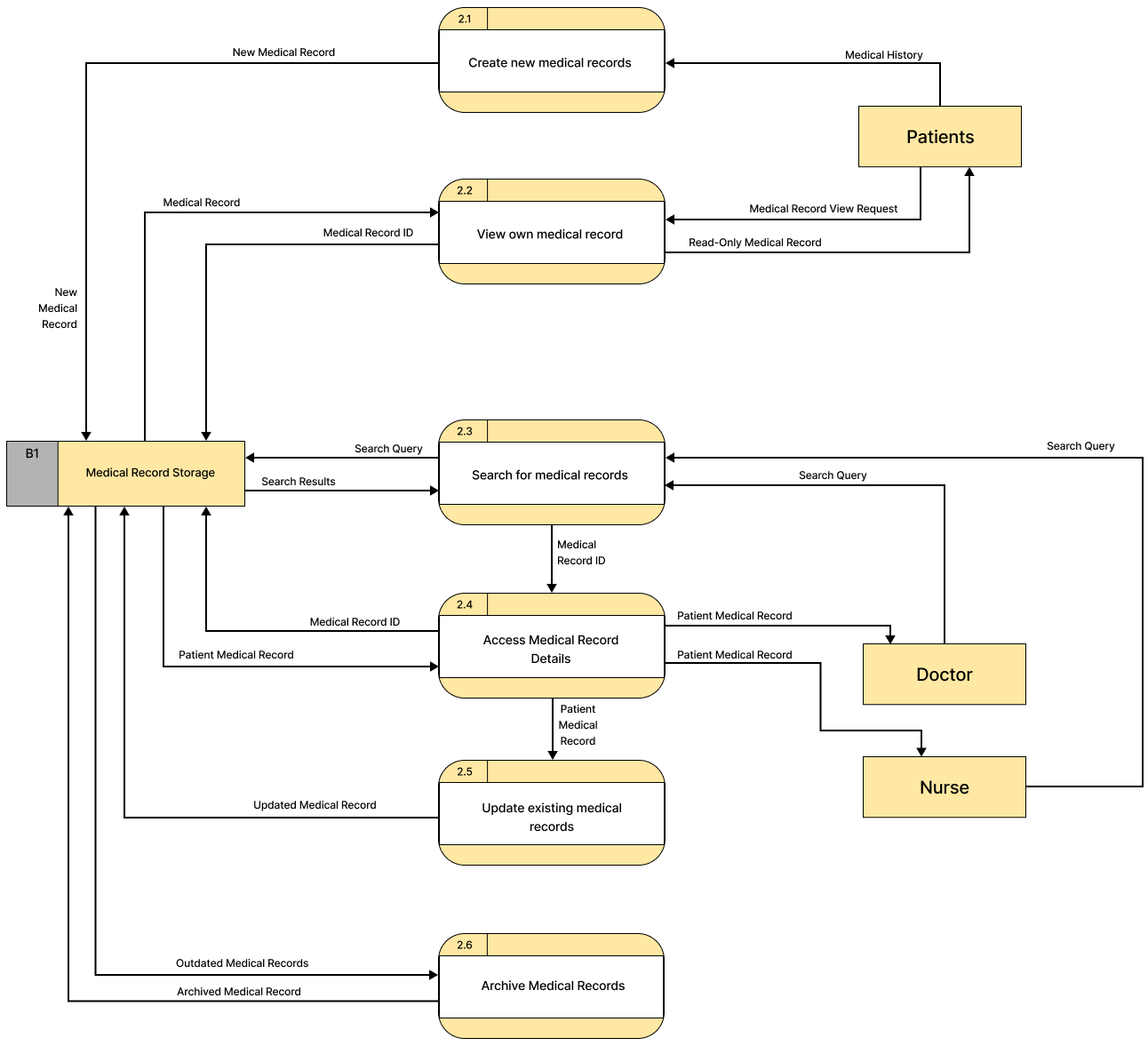


Figure 4 Level 2 DFD - 2.0 Manage Medical Records

### 3.0 Manage Medical Inventory

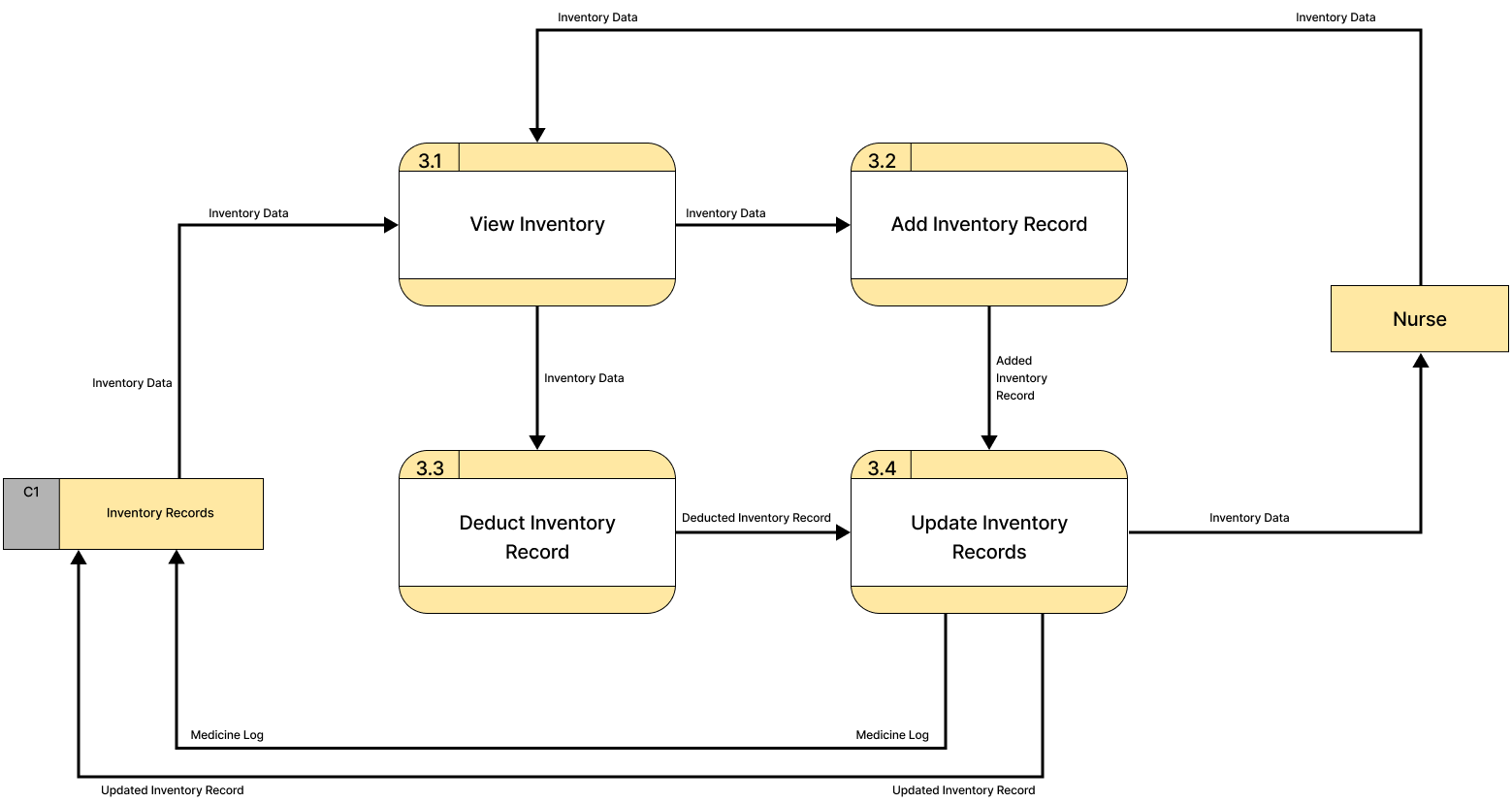


Figure 5 Level 2 DFD - 3.0 Manage Medical Inventory

### 4.0 Manage Appointment Schedules

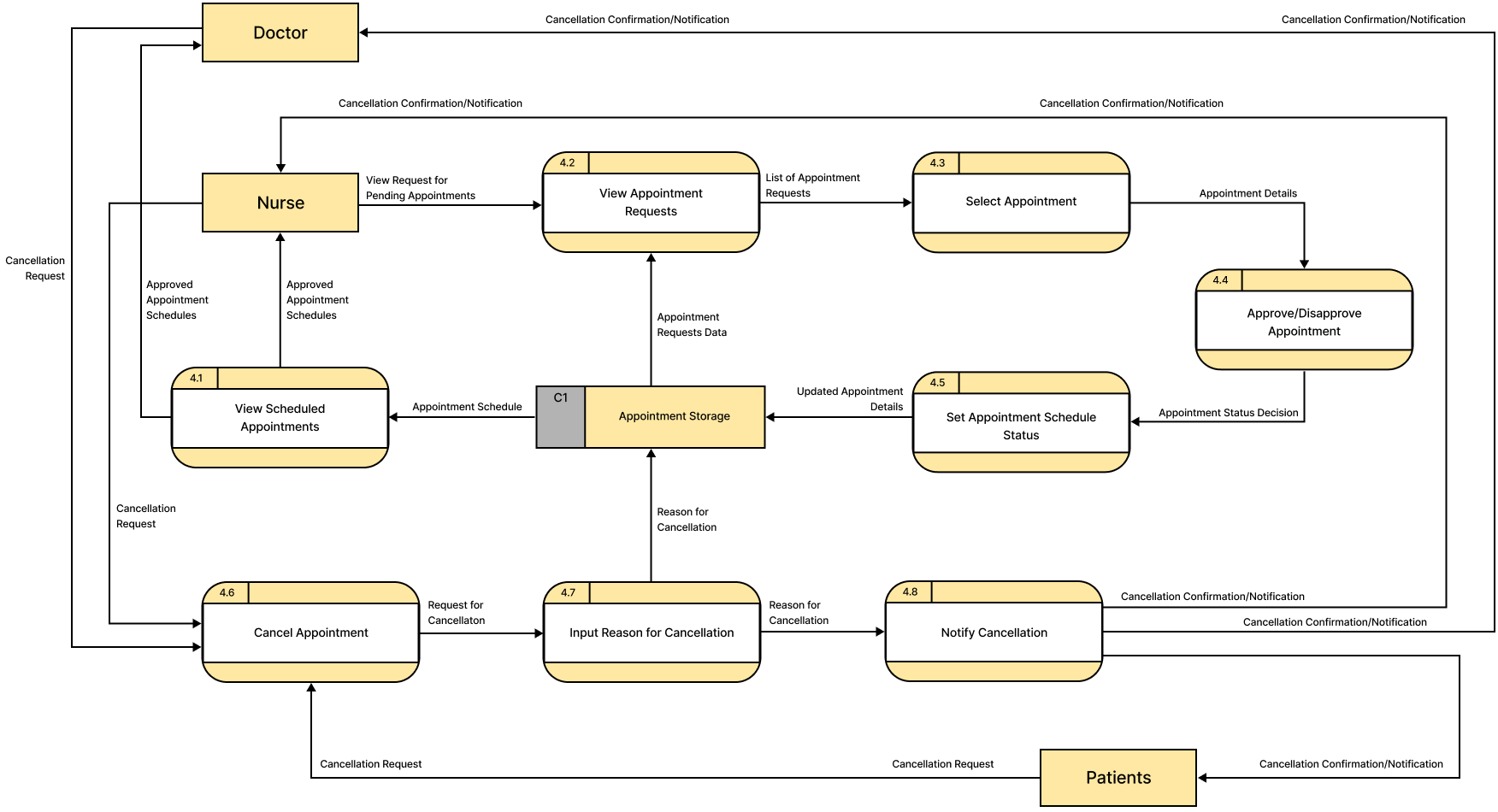


Figure 6 Level 2 DFD - 4.0 Manage Appointment Schedules

### 5.0 Generate Summary Report

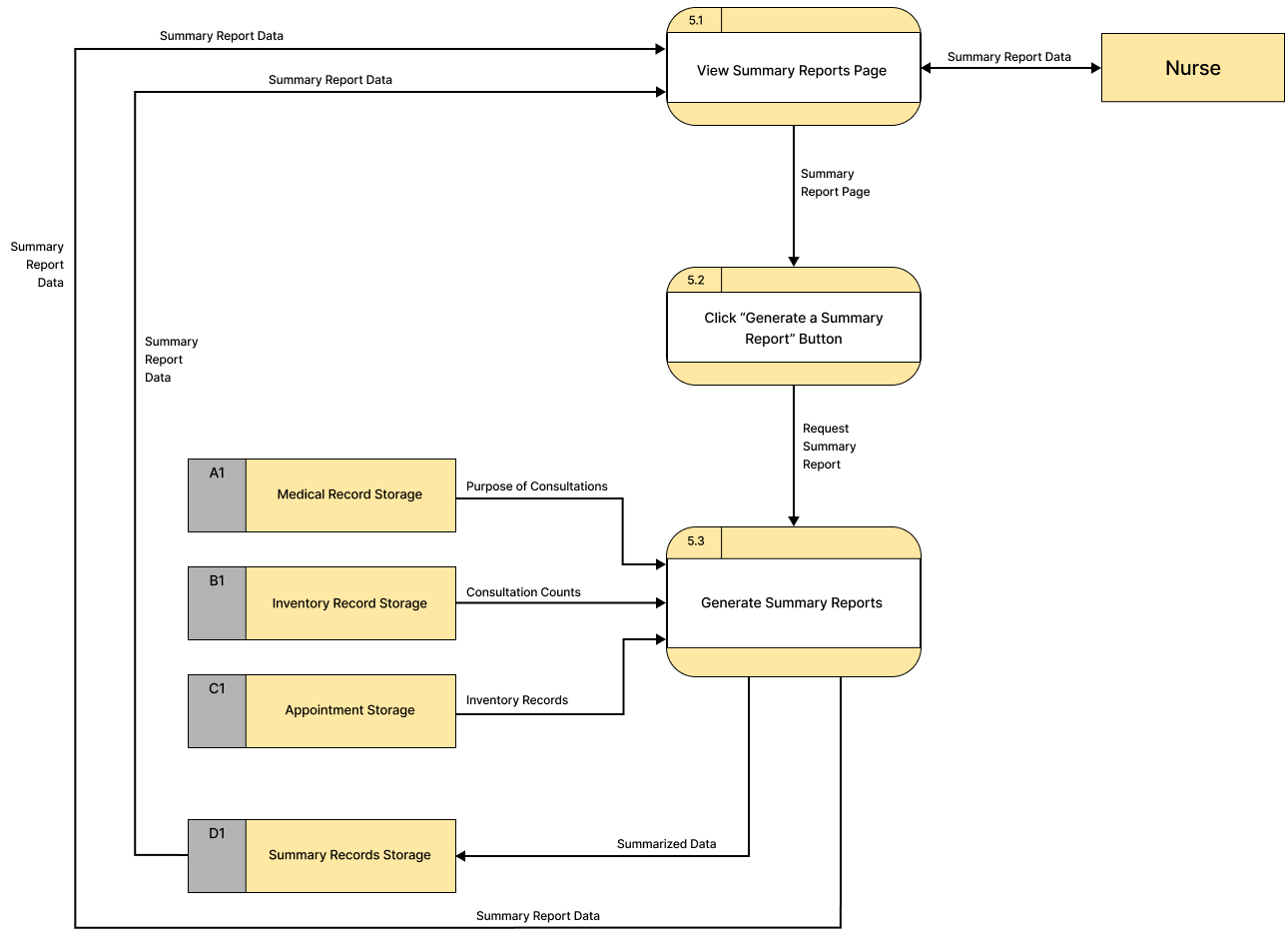


Figure 7 Level 2 DFD - 5.0 Generate Summary Report

### 6.0 Schedule an Appointment for Consultation

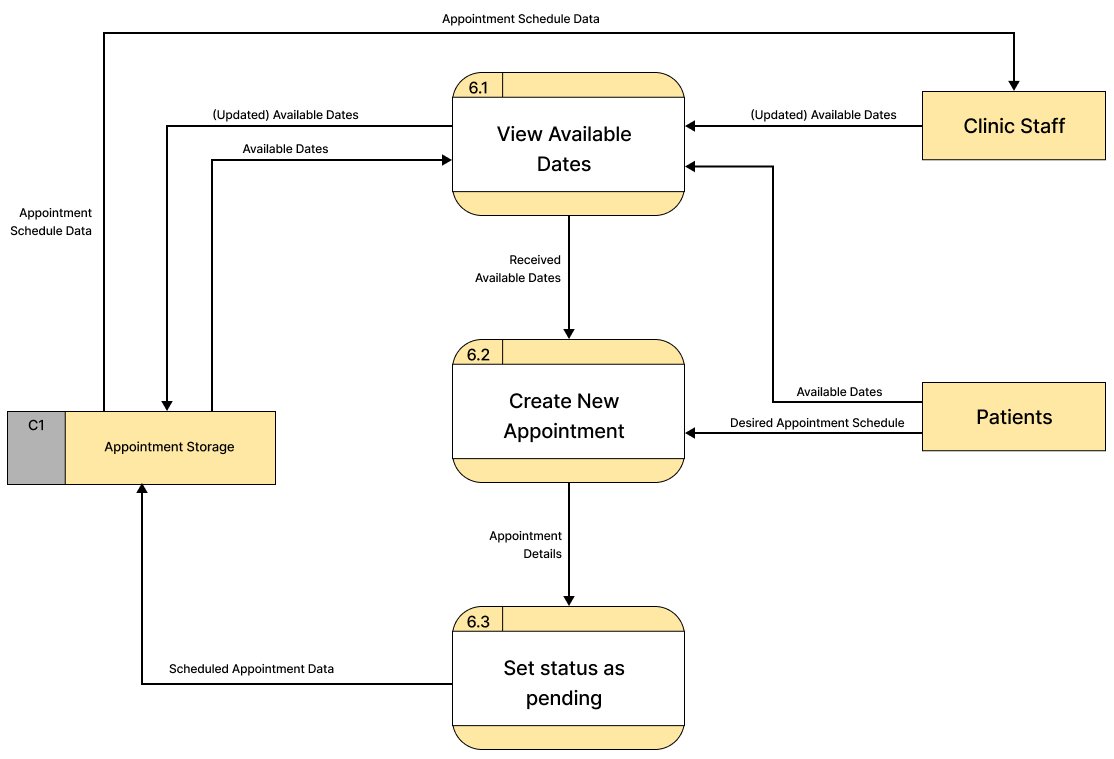


Figure 8 Level 2 DFD - 6.0 Schedule an Appointment for Consultation

### 7.0 Fill Out Information for Medical History

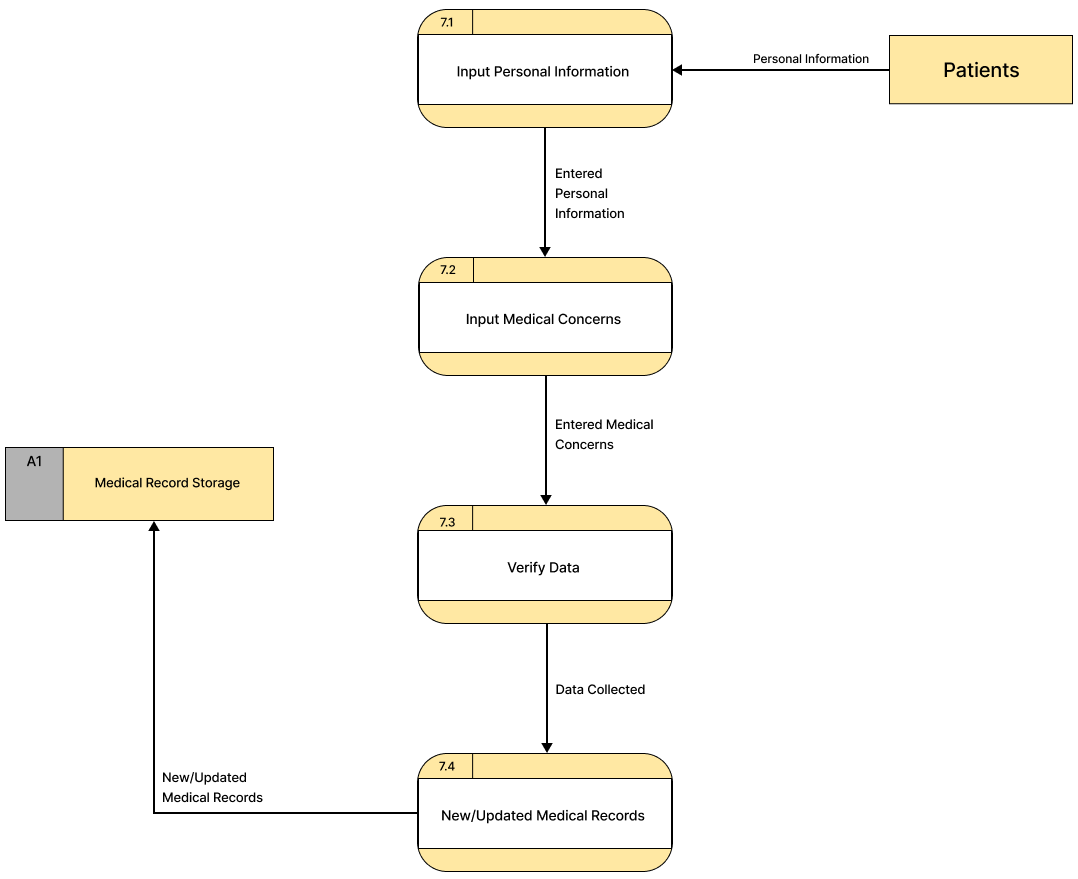


Figure 9 Level 2 DFD - 7.0 Fill Out Information for Medical History

# **Use Case Diagram**

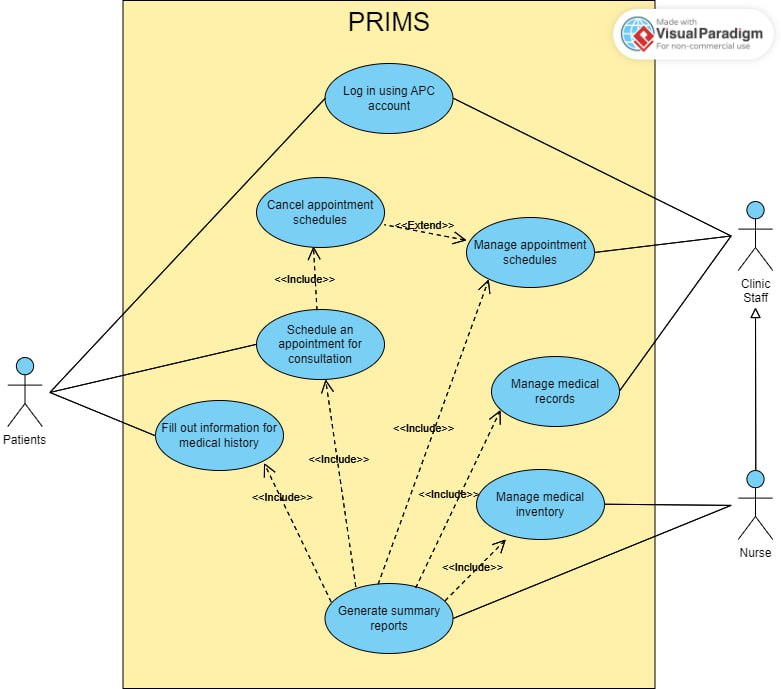


Figure 10 PRIMS Use Case Diagram

# **Fully Dressed Use Cases**

Table 1 User Classes and Characteristics

|  |  |
| --- | --- |
| **Roles** | **Description** |
| Doctor | Conducts the consultation for the scheduled appointments and provides the correct prescription to the patients at the APC clinic. |
| Nurse | Assesses every check-up appointment and manages medical records and medication inventory at the APC clinic. |
| Patients | Patients, also known as students, faculty members, and staff of APC, are the ones who set the appointments for consultation. |

Table 2 Use Case: Log in Using APC Account

|  |  |
| --- | --- |
| **Use Case Name** | Log in Using APC Account |
| **Use Case Number** | UC-001 |
| **Created by** | Erika Daduya & Shannelien Catingub |
| **Date Created** | June 22, 2024 |
| **Description** | The clinic staff and patient log in to their respective log in systems. |
| **Primary Actors** | Clinic Staff & Patient |
| **Triggers** | - When the clinic staff/patient proceeds to the log-in page. |
| **Pre-conditions** | - The device must be connected to the internet.  - The clinic staff/patient must have their APC email and password. |
| **Post-conditions** | - The clinic staff/patient are logged in to the system. |
| **Main Scenario** | 1. The clinic staff navigates to the login page as admin view; the patient navigates to the login page as patient view.  2. The clinic staff/patient input their APC email and password.  3. The system checks the credentials entered against the stored user data in the database.  4. If the credentials are correct, the clinic staff/patient can access the system in admin view and its features. |
| **Extensions or Alternate Scenarios** | a. When the clinic staff/patient enters the incorrect credentials.  1. The system displays an error message and prompts them to try again.  2. The clinic staff/patient can attempt to log in again by reentering credentials. |

Table 3 Use Case: Manage Medical Record

|  |  |
| --- | --- |
| **Use Case Name** | Manage Medical Record |
| **Use Case Number** | UC-002 |
| **Created by** | Erika Daduya |
| **Date Created** | June 22, 2024 |
| **Description** | The clinic staff updates the medical history of each patient when necessary. |
| **Primary Actor** | Clinic Staff |
| **Triggers** | - When the clinic staff performs a regular audit and checks the medical records. |
| **Pre-conditions** | - The clinic staff must be logged in to the admin view of the system.  - The clinic staff must click on the Medical Records tab. |
| **Post-conditions** | - The clinic staff is directed to the Medical Records page.  - The clinic staff manages the record and updates necessary changes. |
| **Main Scenario** | 1. The clinic staff clicks on the Medical Records tab on the left menu.  2. The system directs the clinic staff to the Medical Records page.  3. The Medical Records page shows a list of patients.  4. The clinic staff clicks on a patient to view their record.  5. The clinic staff clicks on the “Edit” button if there are any necessary changes.  6. The clinic staff updates necessary changes.  7. The clinic staff saves the record. |
| **Extensions or Alternate Scenarios** | a. When correcting an error medical record.  1. The clinic staff click on the Medical Records tab on the left menu.  2. The system directs the clinic staff to the Medical Records page.  3. The Medical Records page shows a list of patients.  4. The clinic staff click on a patient to show their record.  5. The clinic staff clicks on the “Edit” button.  6. The clinic staff edits the error in the record.    b. When archiving outdated medical records.  1. The system detects that a medical record is past the retention date of 5 years.  2. The system automatically archives the medical record. |

Table 4 Use Case: Manage Medical Inventory

|  |  |
| --- | --- |
| **Use Case Name** | Manage Medical Inventory |
| **Use Case Number** | UC-003 |
| **Created by** | Erika Daduya |
| **Date Created** | June 22, 2024 |
| **Description** | The nurse manages the medicine inventory and medical supplies. |
| **Primary Actor** | Nurse |
| **Triggers** | - When the nurse manages the medical supplies in the inventory. |
| **Pre-conditions** | - The nurse must be logged in to the admin view of the system.  - The nurse must click on the Inventory/Supplies tab. |
| **Post-conditions** | - The nurse is directed to the Inventory page. |
| **Main Scenario** | 1. The nurse clicks on the Inventory/Supplies tab on the left menu.  2. The system directs the nurse to the Inventory/Supplies page.  3. The Inventory/Supplies page shows a list of medicines/supplies.  4. The nurse clicks on a specific medicine/supply to show its details.  5. The nurse edits the file for necessary updates.  6. The nurse saves the file. |
| **Extensions or Alternate Scenarios** | a. When the stock for a specific medicine/supply drops below the set threshold.  1. The nurse presses the Inventory/Supplies tab.  2. The system shows a list of medicines on the Inventory/Supplies page.  3. The system detects low stock for a particular medicine/supply.  4. The system automatically flags the supply with a warning low stock sign.  5. The nurse can click on the flagged item to view details.  6. The warning sign will remain visible until the supply quantity is updated above the threshold.    b. When there are one or more medicines/supplies past their expiration date.  1. The nurse presses the Inventory/Supplies tab.  2. The system shows a list of medicines/supplies on the Inventory/Supplies page.  3. The system detects expired medicines and flags them with an “Expired” label.  3. The nurse clicks on a specific medicine with the label.  4. The nurse edits the file.  5. The nurse removes one or more counts under the count tab.    c. When adding a new medicine/supply to the inventory.  1. The nurse presses the Inventory/Supplies tab.  2. The system shows a list of medicines on the Inventory/Supplies page.  3. The nurse clicks on the add button.  4. The nurse adds the details of the new medicine.  5. The nurse saves the record.    d. When deleting an existing medicine/supply from the inventory.  1. The nurse clicks the ellipsis button for the specific supply.  2. The system shows a pop-up for more options.  3. The nurse deletes the said medicine/supply. |

Table 5 Use Case: Manage Appointment Schedules

|  |  |
| --- | --- |
| **Use Case Name** | Manage Appointment Schedules |
| **Use Case Number** | UC-004 |
| **Created by** | Clart Nailgas |
| **Date Created** | June 22, 2024 |
| **Description** | The clinic staff approves or disapproves the schedules of appointments. |
| **Primary Actor** | Nurse |
| **Secondary Actor** | Doctor |
| **Triggers** | - When the clinic staff checks the calendar for pending approval of appointed schedule. |
| **Pre-conditions** | - The clinic staff must be logged in to the admin view of the system.  - The clinic staff must click on the Calendar tab on the left bar or on the right side. |
| **Post-conditions** | - The system shows the calendar of the month containing scheduled appointments. |
| **Main Scenario** | 1. The clinic staff logs in on the admin view of the clinic system.  2. The clinic staff is directed to the dashboard.  3. The clinic staff clicks on the Calendar tab on the left menu or on the right section.  4. The system directs the clinic staff to the Calendar page.  5. The Calendar page shows the scheduled appointments for the month.  6. The clinic staff clicks a specific date that shows the pending appointment schedules for approval  7. The clinic staff can click the “Approve” or “Disapprove” button depending on the reason of booking an appointment.  8. When the clinic staff clicks the approve button, they can view the approved scheduled appointments on the Calendar page |
| **Extensions (or Alternate Scenarios)** | a. When the system has no appointments scheduled.  1. The clinic staff logs in to the admin view of the clinic system.  2. The system shows the dashboard.  3. The clinic staff clicks on the Calendar tab.  4. The system directs the clinic staff to the Calendar page.  5. The system shows an empty calendar with no appointments for the selected period.  6. A message will appear that no appointments are currently scheduled for approval.  b. if the scheduled appointment is disapproved  1. The clinic staff disapproves the pending appointment schedule  2. The Appointment request no longer appears in the pending appointment schedules |

Table 6 Use Case: Cancel Appointment Schedules

|  |  |
| --- | --- |
| **Use Case Name** | Cancel Appointment Schedules |
| **Use Case Number** | UC-005 |
| **Created by** | Clart Nailgas |
| **Date Created** | June 22, 2024 |
| **Description** | The clinic staff/patients cancel the appointed schedule. |
| **Primary Actors** | Clinic Staff & Patients |
| **Triggers** | - When the clinic staff wants to notify the patient about cancelling the appointed schedule when they are not available due to conflicting schedule or due to emergency.  - When the patients wants to notify the clinic staff about cancelling the appointed schedule when one of them is not available due to conflicting schedule or due to emergency. |
| **Pre-conditions** | - The clinic staff/patients must be logged in on the admin view of the system.  - The clinic staff/patients must click on the Calendar tab on the left bar or on the right side.  - The patients must have a scheduled appointment. |
| **Post-conditions** | - The system shows the cancelled scheduled appointments. |
| **Main Scenario** | 1. The clinic staff/patients logs in on the admin view of the clinic system.  2. The clinic staff/patients is directed to the home page.  3. The clinic staff/patients clicks on the Calendar tab on the left menu.  4. The system directs the clinic staff/patients to the Calendar page.  5. The Calendar page shows the scheduled appointments for the month.  6. The clinic staff/patients must find the existing scheduled appointment.  7. The clinic staff/patients clicks on the button “cancel.”  8. The clinic staff/patients states the reason for the cancellation.  9. The system prompts a reminder to book another appointment.  10. The clinic staff/patients clicks the “yes” button on the “Send Cancellation” prompt.  11. The system will direct the clinic staff/patients to the calendar page |
| **Extensions or Alternate Scenarios** |  |

Table 7 Use Case: Generate Summary Reports

|  |  |
| --- | --- |
| **Use Case Name** | Generate Summary Reports |
| **Use Case Number** | UC-006 |
| **Created by** | Byron Louis A. Rabajante |
| **Date Created** | September 12, 2024 |
| **Description** | The system generates summary reports regarding consultation counts, medical inventory, purpose of consultations, etc. |
| **Primary Actor** | Nurse |
| **Triggers** | - When the nurse needs to generate monthly/annually summary reports. |
| **Pre-conditions** | - The nurse must log into PRIMS as an admin. |
| **Post-conditions** | - The generation of summary reports will be visible in the dashboard section of the admin |
| **Main Scenario** | 1. The nurse navigates through the home/dashboard page of the system.  2. The nurse clicks on the “Summary Reports” on the left menu.  3. The nurse clicks on the “Generate a summary report.”  4. The system generates the summary reports of consultation counts, primary reasons for consultations, most prescribed medications, and event logs of medical history and medical inventory.  5. The system displays the monthly and yearly summary reports on the Summary Reports page. |
| **Extensions or Alternate Scenarios** | a. When the system encounters a technical issue during data retrieval or report generation.  1. The system attempts to retrieve data and generate the report but encounters an error.  2. The system displays an error message to the user, explaining that report generation failed.  3. The nurse can try to regenerate the report later, or the system may automatically retry the process after resolving the issue.  4. The error is logged, and if necessary, the technical team is alerted to fix the issue. |

Table 8 Use Case: Schedule an Appointment

|  |  |
| --- | --- |
| **Use Case Name** | Schedule an Appointment |
| **Use Case Number** | UC-007 |
| **Created by** | Clart Nailgas |
| **Date Created** | June 22, 2024 |
| **Description** | The patients book an appointment schedule. |
| **Actors** | Patients |
| **Triggers** | - When the patients feel unwell, and they need medical advice from the Doctor  - After check-up appointment, the nurse advises the patients to schedule a follow-up examination.  - When the patients are prompted to book a consultation after receiving diagnostic results that require discussion with the doctor. |
| **Pre-conditions** | - The patients must be logged in to the patients’ view of the system.  - The patients must click on the Appointment button located on the home page. |
| **Post-conditions** | - The system shows the Appointment page consisting of date and time. |
| **Main Scenario** | 1. The system shows the home page.  2. The patients click on the Set an appointment button.  3. The system directs the patients to the Appointment page.  4. The patients choose a date and time for the appointment.  5. The patients state their reason for appointment.  6. The patients click the yes button.  7. The system pops up a prompt confirming the chosen date and time.  8. The system pops up another prompt thanking the patients.  9. The system directs the patients to another page with a pop-up asking to take a medical form. |
| **Extensions or Alternate Scenarios** | a. The patients select a date and time that is no longer available.  1. The patients choose a date and time for the appointment.  2. The system checks availability and finds that the selected slot is already booked.  3. The system displays an error message and suggests alternative available slots.  4. The patients select a new date and time from the available options.  5. The patients continue with the appointment scheduling process.    b. The patients' needs to cancel or reschedule the appointment after it has been booked.  1. The patients log in and navigate to their scheduled appointments.  2. The patients select the option to cancel or reschedule the appointment.  3. If rescheduling, the system directs the patients to the Appointment page to choose a new date and time.  4. The patients select a new date and time or confirm the cancellation.  5. The system updates the appointment details and sends a confirmation message to the patients.    c. The patient has not selected a date and time.  1. The patients click only on the Yes button without selecting any date and time.  2. The system shows a prompt message that the patients have not selected a date and/or time. |

Table 9 Use Case: Fill Out Information for Medical History

|  |  |
| --- | --- |
| **Use Case Name** | Fill Out Information for Medical History |
| **Use Case Number** | UC-008 |
| **Created by** | Clart Nailgas |
| **Date Created** | June 22, 2024 |
| **Description** | A patient fills out information for medical history. |
| **Actors** | Patient |
| **Triggers** | - When the patient scheduled an appointment.  - When the patient needs to fill out a medical form for medical history. |
| **Pre-conditions** | - A patient must be logged in to the patient view of the system. |
| **Post-conditions** | - The system records the medical form for the nurse. |
| **Main Scenario** | 1. A patient logs in on the patient’s view of the clinic system.  2. The system shows the home page.  3. The patient clicks on the Appointment button.  4. The patient books an appointed schedule.  5. The system directs the patient to another page with a pop-up asking to take a medical form.  6. The patient selects the Now button.  7. The patient fills out the medical form. If the patient has a record already, the system can auto-fill their basic information.  8. The patient submits the form.  9. The system records the data of the medical record for the nurse. |
| **Extensions or Alternate Scenarios** | a. The patients chooses not to fill out the medical form immediately.  1. After booking an appointment, the system prompts the patients to fill out the medical form.  2. The patients selects the "Later" button instead of "Now."  3. The system saves the appointment and redirects the patients to the home page.  4. The system pops up a prompt message to fill out the form before the appointment.    b. The patient submits the medical form with missing or incomplete information.  1. The patient starts filling out the medical form.  2. The patient leaves the required fields blank or submits the form with incomplete information.  3. The system validates the form and highlights the incomplete fields.  4. The system prompts the patient to complete the required fields before submitting the form again.    c. When the faculty and APC staff do not need to book an appointment.  1. The faculty and APC staff click on the Medical Form tab on the left menu.  2. The system directs them to the Medical Form page.  3. The faculty and APC staff input their information into the medical form.  4. The faculty and APC staff submit the form.  5. The system records the medical form for medical records. |

# **Test Cases for Fully Dressed Use Cases**

Table 10 Test Case TC-001-01

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | Medical Records Management |
| **Test Case ID** | TC-001-01 |
| **Test Case Description** | Verify that the nurse can successfully check the medical history of a patient through the Medical Records tab. |
| **Reference Document** | Use Case UC-002 |
| **Pre-Conditions** | * The nurse must be logged into the system using admin credentials. * The nurse must navigate to the Medical Records tab from the dashboard. |
| **Test Steps** | 1. Log in to the admin view of the clinic system using valid nurse credentials. 2. Verify that the system directs the nurse to the dashboard. 3. Click on the "Medical Records" tab in the menu. 4. Verify that the system navigates to the Medical Records page. 5. Ensure that the Medical Records page displays a list of patients. 6. Click on a patient from the list to view their medical history. |
| **Test Data** | * Nurse login credentials: * Username: nurse\_apc * Password: apcclinic123 * Example patient name: Clart Nailgas |
| **Expected Result** | * The nurse should be successfully directed to the Medical Records page after logging in and clicking the Medical Records tab. * The Medical Records page should display a list of patients. * Upon clicking on a patient, their medical history should be displayed. |
| **Post Condition** | * The nurse is on the Medical Records page, with the selected patient's medical history visible. |
| **Actual Result:** | [To be filled in after test execution] |
| **Status:** | [To be set as Pass or Fail based on the actual result] |
| **Comments** | * Ensure the system's response time is adequate when displaying the medical history. Also, check if valid fields shown are correct. |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/01/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

Table 11 Test Case TC-001-02

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | Medical Record Management |
| **Test Case ID** | TC-001-02 |
| **Test Case Description** | Verify that the nurse can update patient medical records. |
| **Reference Document** | Use Case UC-003 |
| **Pre-Conditions** | * The nurse must be logged in on the admin view of the system. * The nurse must have access to the Medical Records tab. |
| **Test Steps** | 1. Log in on the admin view of the clinic system. 2. Click on the Medical Records tab. 3. Verify that the system directs to the Medical Records page. 4. Select a patient from the list. 5. Click on the “Edit” button. 6. Update necessary changes in the patient’s record. 7. Save the updated record. |
| **Test Data** | Patient details for update. |
| **Expected Result** | The nurse successfully updates and saves the patient’s medical record. |
| **Post Condition** | The patient’s medical record is updated in the system. |
| **Actual Result** | [To be filled after execution] |
| **Status** | [To be set as Pass or Fail based on the actual result] |
| **Comments** | * State all data that can be edited and make sure all changes are logged. |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/01/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

Table 12 Test Case TC-003-01

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | Inventory Management |
| **Test Case ID** | TC-003-01 |
| **Test Case Description** | Verify that the nurse can manage the medicine inventory and supplies. |
| **Reference Document** | Use Case UC-004 |
| **Pre-Conditions** | * The nurse must be logged in on the admin view of the system. * The nurse must have access to the Inventory/Supplies tab. |
| **Test Steps** | 1. Log in on the admin view of the clinic system. 2. Click on the Inventory/Supplies tab. 3. Verify that the system directs to the Inventory/Supplies page. 4. Select a specific medicine from the list. 5. Edit the file for necessary updates. |
| **Test Data** | Medicine details for update. |
| **Expected Result** | The nurse successfully updates and saves the medicine inventory details. |
| **Post Condition** | The medicine inventory is updated in the system. |
| **Actual Result** | [To be filled after execution] |
| **Status** | [To be set as Pass or Fail based on the actual result] |
| **Comments** | * Check for margin of errors when updating the inventory to avoid wrong data insertions or updates. |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/01/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

Table 13 Test Case TC-004-01

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | Appointment System |
| **Test Case ID** | TC-004-01 |
| **Test Case Description** | Verify that the nurse can approve or disapprove appointment schedules. |
| **Reference Document** | Use Case UC-005 |
| **Pre-Conditions** | * The nurse must be logged in on the admin view of the system. * The nurse must have access to the Calendar tab. |
| **Test Steps** | 1. Log in on the admin view of the clinic system. 2. Click on the Calendar tab on the left menu or on the right section. 3. Verify that the system directs to the Calendar page. 4. Review the scheduled appointments displayed for the month. 5. Select an appointment to approve or disapprove. 6. Click the “Approve” or “Disapprove” button. |
| **Test Data** | Appointment details for approval/disapproval. |
| **Expected Result** | The nurse can successfully approve or disapprove the appointment schedules. |
| **Post Condition** | The status of the appointment is updated in the system. |
| **Actual Result** | [To be filled after execution] |
| **Status** | [To be set as Pass or Fail based on the actual result] |
| **Comments** | * Verify important details that may affect the decision of the nurse. Also, consult again to the nurse about the fields required for the appointment to be set. |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/01/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

Table 14 Test Case TC-004-02

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | Appointment System |
| **Test Case ID** | TC-004-02 |
| **Test Case Description** | Verify that a patient can successfully schedule an appointment. |
| **Reference Document** | Use Case UC-005 |
| **Pre-Conditions** | * The patient must be logged in on the patient view of the system. * The patient must have access to the Appointment button on the home page. |
| **Test Steps** | 1. Log in on the patient view of the clinic system. 2. Click on the Appointment button on the home page. 3. Verify that the system directs to the Appointment page. 4. Choose a date and time for the appointment. 5. Click the “Yes” button to confirm. 6. Verify that the system displays a prompt confirming the chosen date and time. 7. Verify that the system displays a prompt thanking the patient. 8. Check if the system directs the patient to a page with a pop-up asking to take a medical form. |
| **Test Data** | Appointment date and time options. |
| **Expected Result** | The patient successfully schedules an appointment, receives confirmation and thank you message, and is directed to the medical form page. |
| **Post Condition** | The appointment is recorded in the system and the patient is prompted to fill out a medical form. |
| **Actual Result** | [To be filled after execution] |
| **Status** | [To be set as Pass or Fail based on the actual result] |
| **Comments** |  |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/01/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

Table 15 Test Case TC-004-03

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | Appointment System |
| **Test Case ID** | TC-004-03 |
| **Test Case Description** | Verify that the nurse can cancel an appointment schedule. |
| **Reference Document** | Use Case UC-006 |
| **Pre-Conditions** | * The nurse must be logged in on the admin view of the system. * The nurse must have access to the Calendar tab. |
| **Test Steps** | 1. Log in on the admin view of the clinic system. 2. Click on the Calendar tab on the left menu or right section. 3. Verify that the system directs to the Calendar page. 4. Review the scheduled appointments displayed for the month. 5. Identify the appointment to be canceled. 6. Click the “Cancel” button for the selected appointment. 7. State the reason for the cancellation in the field provided. 8. Confirm the cancellation. 9. Remind the patient to book another appointment. |
| **Test Data** | Appointment details and cancellation reason. |
| **Expected Result** | The nurse successfully cancels the appointment, provides a reason, and the patient is notified to book another appointment. |
| **Post Condition** | The appointment is removed from the calendar, and the patient is prompted to reschedule. |
| **Actual Result** | [To be filled after execution] |
| **Status** | [To be set as Pass or Fail based on the actual result] |
| **Comments** |  |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/02/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

Table 16 Test Case TC-005-01

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | TC-005-01 |
| **Test Case ID** | Medical Forms |
| **Test Case Description** | Verify that a patient can fill out and submit a medical form successfully. |
| **Reference Document** | Use Case UC-008 |
| **Pre-Conditions** | * The patient must be logged in on the patient view of the system. * The patient must have booked an appointment and be directed to the medical form page if no previous record exists or if updating is necessary. |
| **Test Steps** | 1. Log in on the patient view of the clinic system. 2. Click on the Appointment button and book a schedule. 3. Verify that the system directs to a page with a pop-up asking to take a medical form. 4. Click the “Now” button to access the medical form. 5. If the patient has a previous medical record, verify that the system auto-fills the basic information in the form. 6. Fill out the remaining fields in the medical form. 7. Submit the completed form. 8. Verify that the system records the data in the medical records for the nurse to review. |
| **Test Data** | Medical form details (e.g., patient history, medications, allergies). |
| **Expected Result** | The patient successfully fills out and submits the medical form, and the system records the data for the nurse to access. |
| **Post Condition** | The medical form data is recorded in the system and made available to the nurse for the upcoming appointment. |
| **Actual Result** | [To be filled after execution] |
| **Status** | [To be set as Pass or Fail based on the actual result] |
| **Comments** |  |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/02/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

Table 17 Test Case TC-006-01

|  |  |
| --- | --- |
| **Project Name** | PRIMS |
| **Module Name** | Login TEST |
| **Test Case ID** | TC-006-01 |
| **Test Case Description** | Verify that a patient and clinic staff can login to the system. |
| **Reference Document** | Use Case UC-008 |
| **Pre-Conditions** | * The patient and clinic staffs must have the proper credentials given by the registrar * The patient/clinic staff must be on the login page. |
| **Test Steps** | 1. Go to the APC Clinic (PRIMS) Web login page. 2. Enter needed credentials (Email and password) |
| **Test Data** | APC Credentials (Auth) |
| **Expected Result** | The patient and clinic staff successfully log on to the system.  The patient and clinic staff receives a warning for wrong credentials entered. |
| **Post Condition** | The system will then show the dashboard and services to the patient and management tools for the clinic staff. |
| **Actual Result** | [To be filled after execution] |
| **Status** | [To be set as Pass or Fail based on the actual result] |
| **Comments** |  |
| **Created By** | Clart Nailgas |
| **Date of Creation** | 09/02/2024 |
| **Reviewed By** | Erika Daduya |
| **Date of Review** | TBA |
| **Executed By** | TBA |
| **Date of Execution** | TBA |

# **Activity Diagrams with Swimlane**

### UC-001: Log In Using APC Account

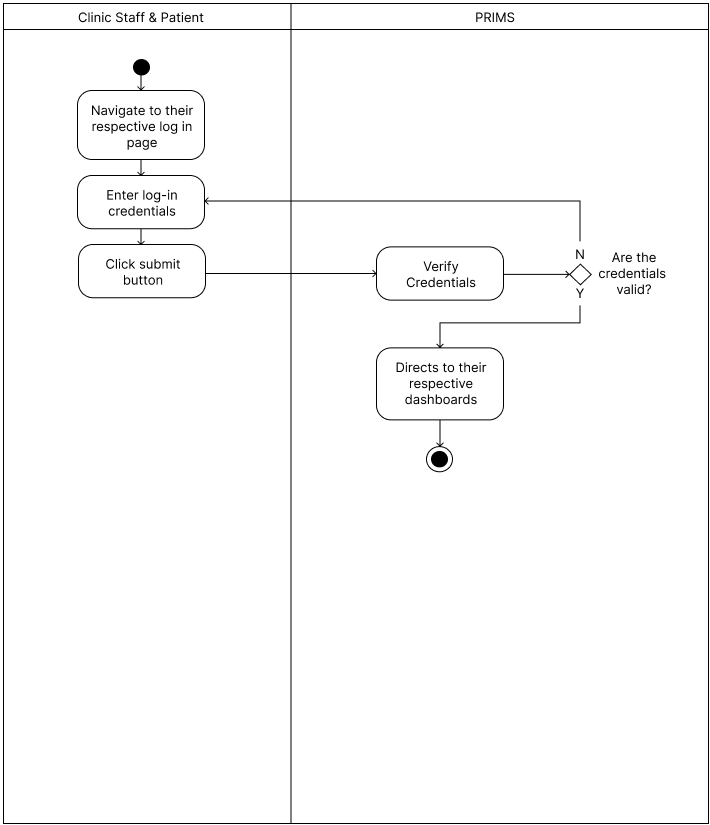


Figure 11 Activity Diagram for UC-001

### UC-002: Manage Medical Record

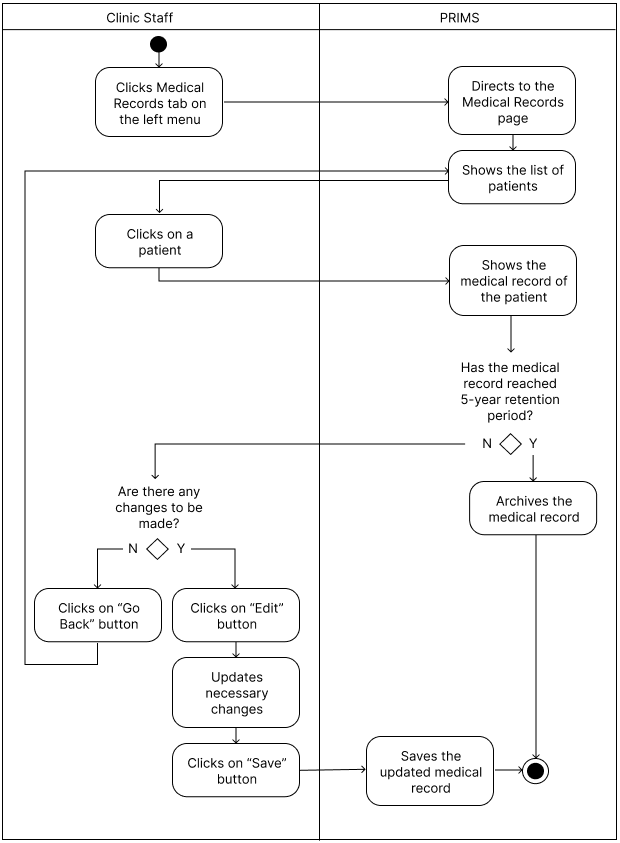


Figure 12 Activity Diagram for UC-002

### UC-003: Manage Medical Inventory

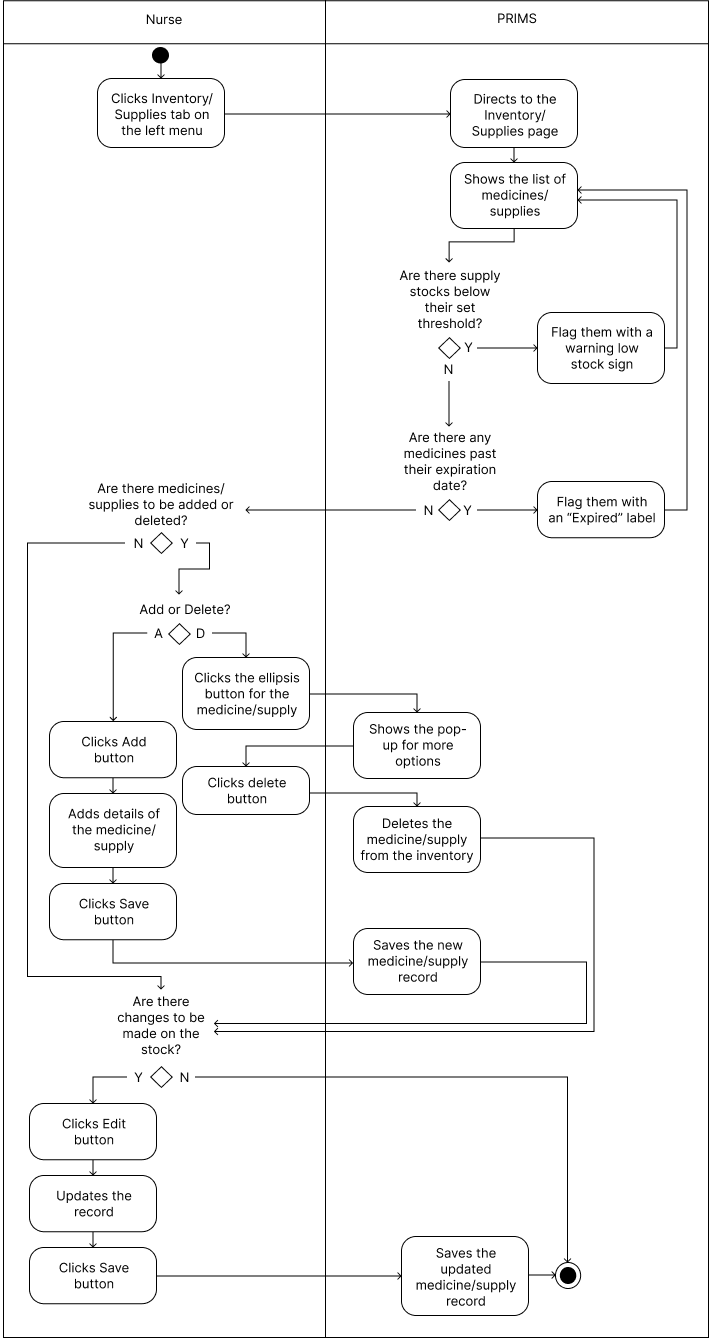


Figure 13 Activity Diagram for UC-003

### UC-004: Manage Appointment Schedules

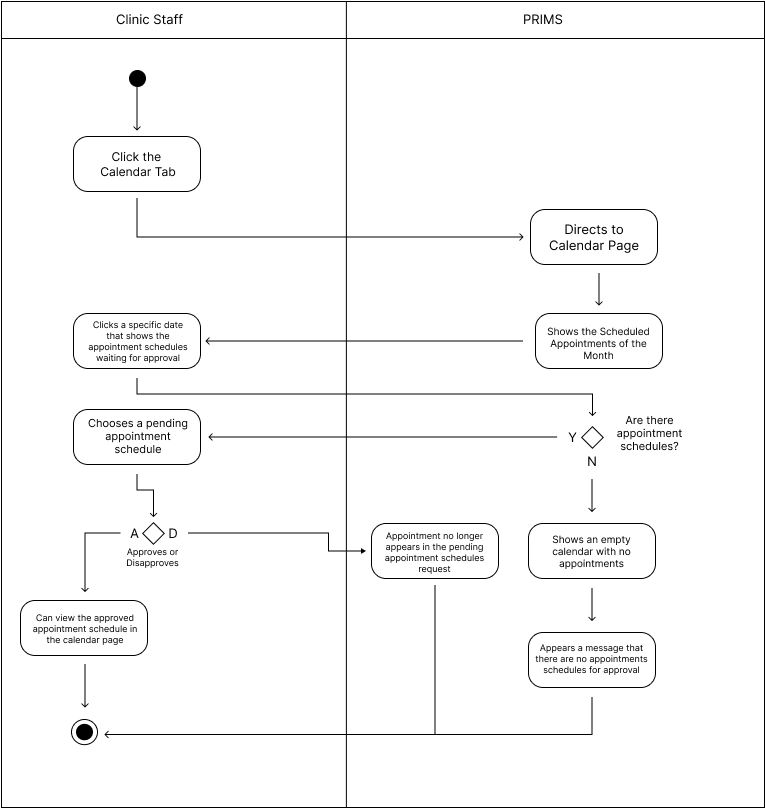


Figure 14 Activity Diagram for UC-004

### UC-005: Cancellation of Appointment Schedules

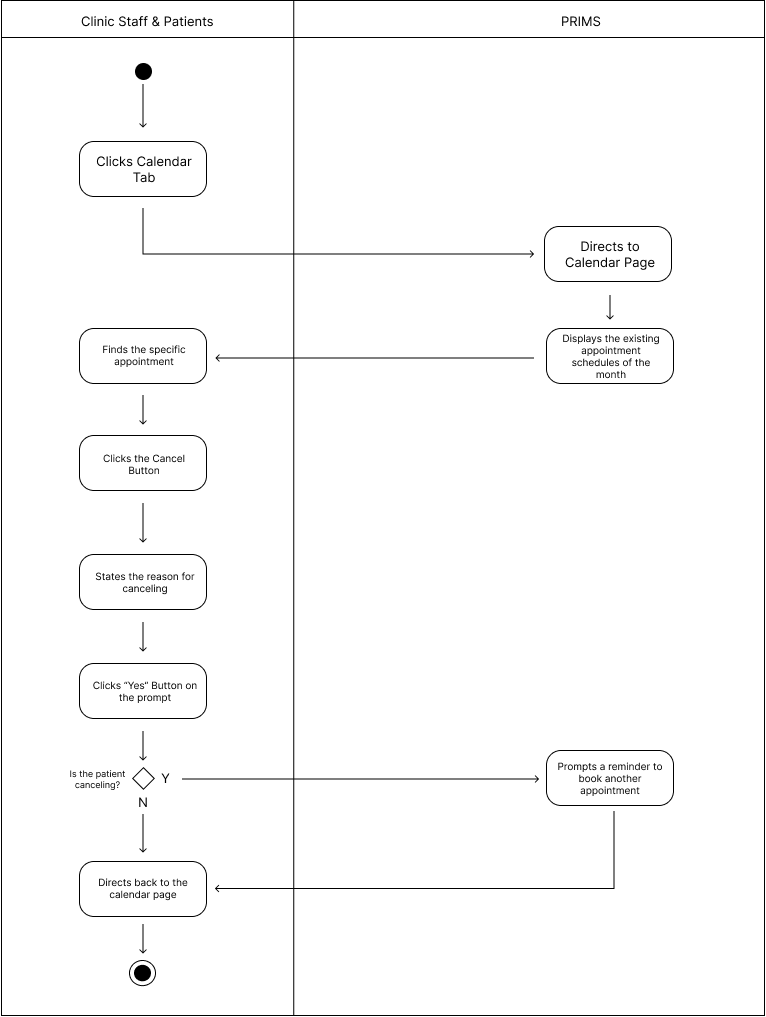


Figure 15 Activity Diagram for UC-005

### UC-006: Generation of Summary Reports

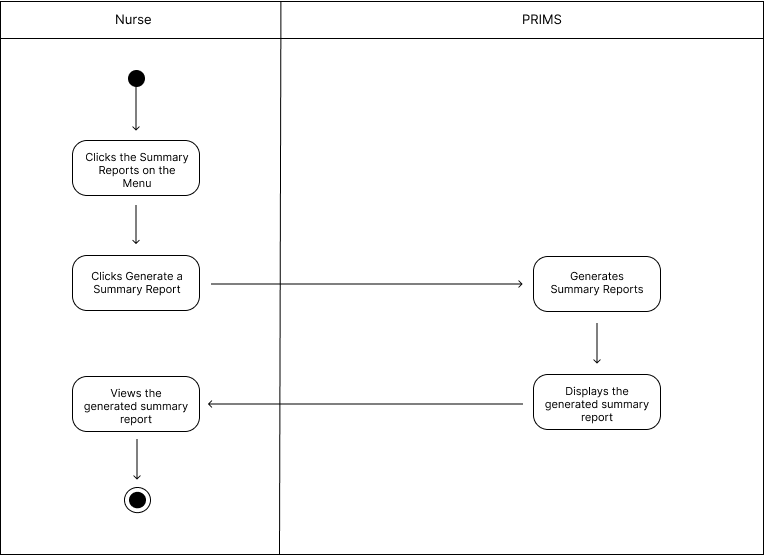


Figure 16 Activity Diagram for UC-006

### UC-007: Schedule an Appointment

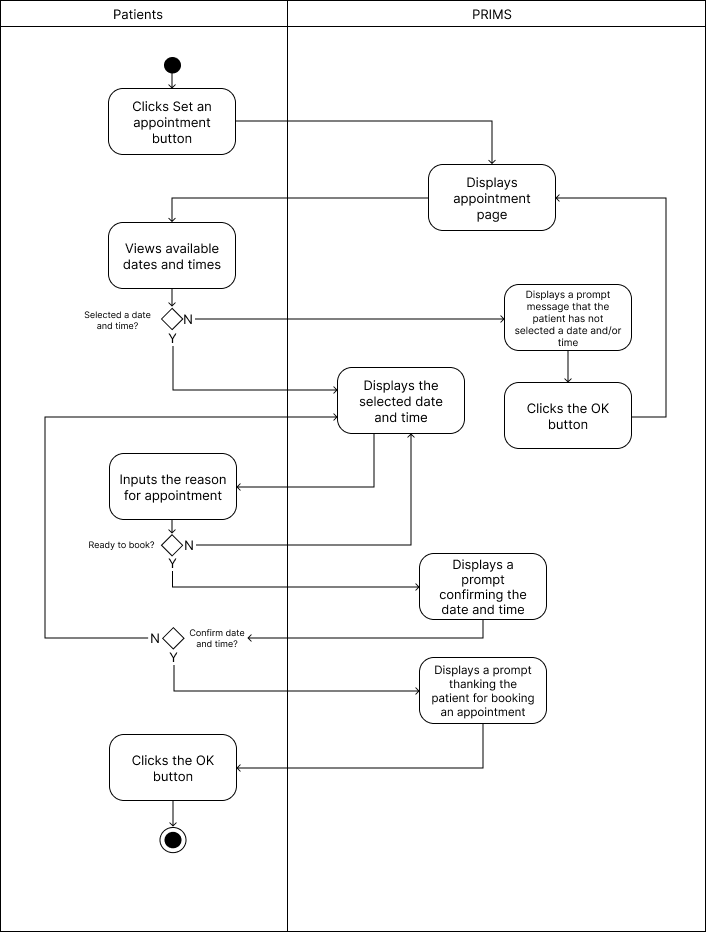


Figure 17 Activity Diagram for UC-007

### UC-008: Fill Out Information for Medical History

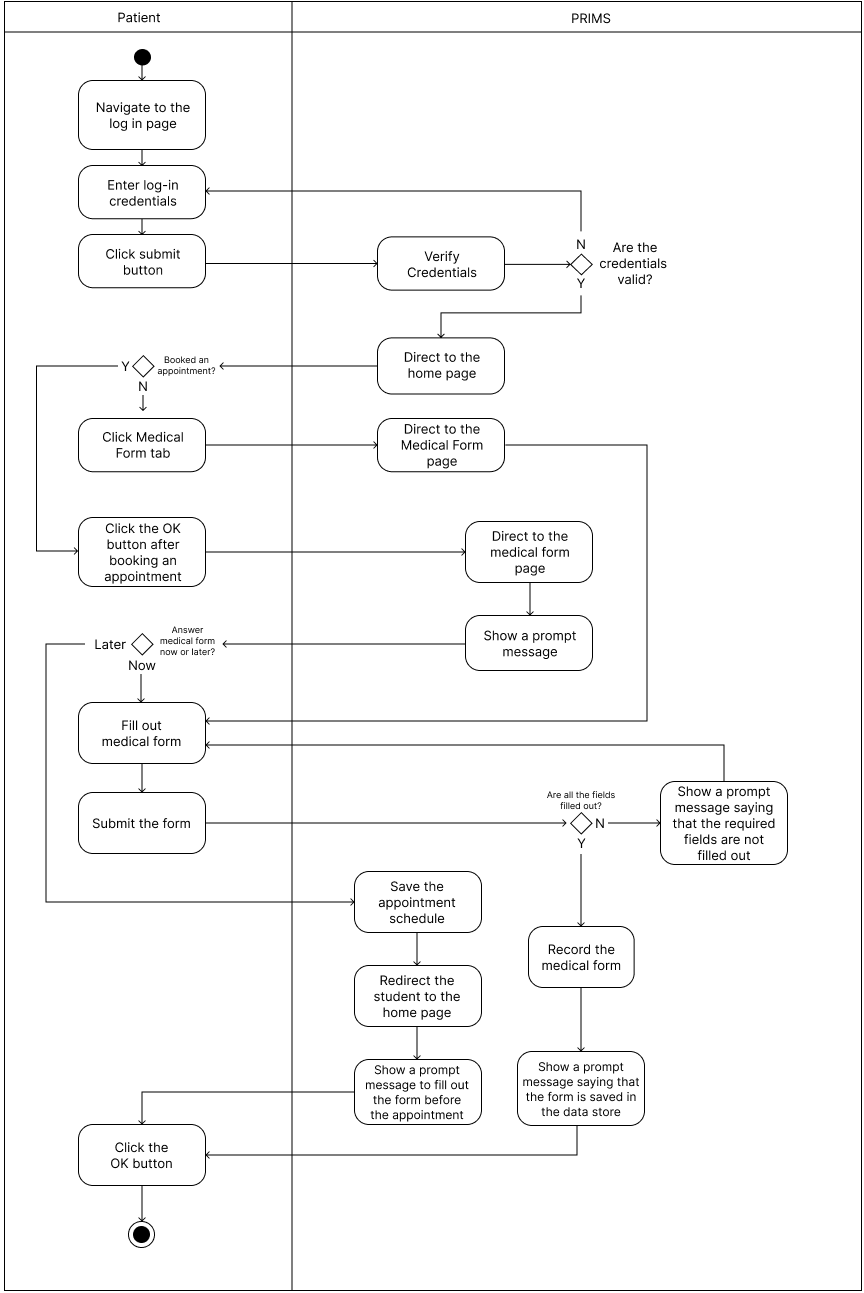


Figure 18 Activity Diagram for UC-008

# **Database Design**

## **Entity Relationship Diagram**

A screenshot of a computer program

Description automatically generated

Figure 19 PRIMS Entity Relationship Diagram

## **Data Dictionary**

### CREDENTIALS

Table 18 Data Dictionary Table for CREDENTIALS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| credential\_ID | INT | N/A | PK | Unique identifier for each credential record. |
| user\_ID | INT | N/A | FK | References the **PATIENTS** table; links to the patient’s information. |
| verified | boolean | Yes or No | N/A | Identifier if credentials are verified or not |

### PATIENTS

Table 19 Data Dictionary Table for PATIENTS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| patient\_id | INT | N/A | PK | Unique identifier for each patient. |
| first\_name | VARCHAR(50) | 1 to 50 characters | N/A | Patient’s first name. |
| middle\_initial | VARCHAR(70) | 1 to 70 characters | N/A | Patient’s middle initial. |
| last\_name | VARCHAR(50) | 1 to 50 characters | N/A | Patient’s last name. |
| email | VARCHAR(100) | Valid email format | N/A | Patient’s email address for login and communication. |
| gender | VARCHAR(10) | 1 to 10 characters | N/A | Patient’s gender. |
| date\_of\_birth | DATE | YYYY-MM-DD | N/A | Patient’s date of birth. |
| contact\_number | VARCHAR(20) | Valid phone format | N/A | Patient’s contact number. |
| category\_id | INT | N/A | FK | References the **CATEGORY** table; defines the patient’s role (student, faculty members, APC staff). |
| credential\_id | INT | N/A | FK | References the **CREDENTIALS** table; defines each credential record. |
| medhistory\_id | INT | N/A | FK | References the **MEDICAL\_HISTORY** table; defines the medical history of each patient. |
| emergencycon\_id | INT | N/A | FK | References the **EMERGENCY\_CONTACT** table; defines the emergency contact of each patient. |

### CLINIC\_STAFF

Table 20 Data Dictionary Table for CLINIC\_STAFF

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| clinic\_staff\_id | INT | N/A | PK | Unique identifier for each clinic staff. |
| clinic\_staff\_lname | INT | N/A | FK | Clinic staff’s last name. |
| clinic\_staff\_fname | VARCHAR(45) | N/A | N/A | Clinic staff’s first name. |
| clinic\_staff\_minitial | LONGTEXT | N/A | N/A | Clinic staff’s middle initial. |
| role | DATE | YYYY-MM-DD | N/A | Defines the role of the clinic staff (e.g. ‘doctor’ or ‘nurse’). |

### CATEGORY

Table 21 Data Dictionary Table for CATEGORY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| category\_id | INT | N/A | PK | Unique identifier for each role. |
| category\_name | VARCHAR(50) | 1 to 50 characters | N/A | Name of the category of the patient (e.g., ‘student’, 'faculty member', 'APC staff'). |

### APPOINTMENT

Table 22 Data Dictionary Table for APPOINTMENT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| appointment\_id | INT | N/A | PK | Unique identifier for each appointment. |
| patient\_id | INT | N/A | FK | References the **PATIENTS** table; links to the patient. |
| doctor\_id | INT | N/A | FK | References the **USERS** table; links to the doctor/nurse handling the appointment. |
| appointment\_date | DATETIME | YYYY-MM-DD HH:MM | N/A | Date and time of the appointment. |
| status | VARCHAR(50) | 'Pending', 'Approved', 'Canceled' | N/A | Status of the appointment. |
| reason\_for\_visit | VARCHAR(255) | 1 to 255 characters | N/A | Reason for the appointment (e.g., check-up, follow-up). |

### MEDICAL\_RECORDS

Table 23 Data Dictionary Table for MEDICAL\_RECORDS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| medrecord\_id | INT | N/A | PK | Unique identifier for each medical record. |
| patient\_id | INT | N/A | FK | References the **PATIENTS** table; links to the patient. |
| doctor\_id | INT | N/A | FK | References the **USERS** table (the doctor/nurse who created the record). |
| diagnosis\_id | TEXT | N/A | N/A | Description of the patient’s diagnosis. |
| treatment\_id | TEXT | N/A | N/A | Description of the treatment given. |
| prescription\_id | TEXT | N/A | N/A | Medications prescribed to the patient. |
| visit\_date | DATETIME | YYYY-MM-DD HH:MM | N/A | Date of the patient’s visit. |
| notes | TEXT | N/A | N/A | Additional notes about the patient’s visit and condition. |

### PRESCRIPTION

Table 24 Data Dictionary Table for PRESCRIPTION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| prescription\_ID | INT | N/A | PK | Unique identifier for each prescription record. |
| patient\_id | INT | N/A | FK | References the **PATIENTS** table; links to the patient. |
| medication\_name | VARCHAR(45) | N/A | N/A | Name of the medicine or the prescription |
| dosage | VARCHAR(45) | N/A | N/A | Defines the size of the medicine. |
| frequency | VARCHAR(45) | N/A | N/A | Defines how many times the dose will be taken. |
| start\_date | DATE | YYYY-MM-DD | N/A | Defines the start date of intaking the dose or applying the medical remedies. |
| end\_date | DATE | YYYY-MM-DD | N/A | Defines the end date of intaking the dose or applying the medical remedy. |

### DIAGNOSIS

Table 25 Data Dictionary Table for DIAGNOSIS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| diagnosis\_ID | INT | N/A | PK | Unique identifier for each diagnosis record. |
| patient\_id | INT | N/A | FK | References the **PATIENTS** table; links to the patient. |
| diagnosis\_code | VARCHAR(45) | N/A | N/A | Defines the code of the diagnosis. |
| diagnosis\_name | VARCHAR(45) | N/A | N/A | Defines the name of the diagnosis of the patient. |
| diagnosis\_date | DATETIME | YYYY-MM-DD HH:MM | N/A | Date and time of the patient’s diagnosis |
| severity | VARCHAR(45) | N/A | N/A | Defines how severe the discomfort or illness of the patient is experiencing |

### TREATMENT

Table 26 Data Dictionary Table for TREATMENT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| treatment\_ID | INT | N/A | PK | Unique identifier for each treatment record. |
| patient\_id | INT | N/A | FK | References the **PATIENTS** table; links to the patient. |
| treatment\_type | VARCHAR(45) | N/A | N/A | Defines what kind of treatment needs to be done. |
| treatment\_details | LONGTEXT | N/A | N/A | Defines the description or details of the treatment. |
| start\_date | DATE | YYYY-MM-DD | N/A | Defines the start date of intaking the dose or applying the medical remedies. |
| end\_date | DATE | YYYY-MM-DD | N/A | Defines the end date of intaking the dose or applying the medical remedy. |

### INVENTORY

Table 27 Data Dictionary Table for INVENTORY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| inventory\_id | INT | N/A | PK | Unique identifier for each inventory item. |
| item\_name | VARCHAR(100) | 1 to 100 characters | N/A | Name of the inventory item (e.g., medication, medical supply). |
| quantity | INT | Non-negative integer | N/A | Quantity available in stock. |
| description | TEXT | N/A | N/A | Description of the item. |
| date\_supplied | DATETIME | YYYY-MM-DD HH:MM | N/A | Date when the inventory was last updated. |
| expiration\_date | DATE | YYYY-MM-DD | N/A | Expiry date of the medicine (or medical supply, if applicable). |
| category | VARCHAR(45) | 1 to 45 characters | N/A | Category of the medical supply (e.g. ‘medicine,’ ‘first aid kit,’ and ‘medical supply’). |
| date\_updated | DATETIME | YYYY-MM-DD HH:MM | N/A | Defines the restock date of a medicine or medical supply. |
| updated\_by | INT | N/A | FK | References the **Users** table (who last updated the inventory). |

### EMERGENCY\_CONTACT

Table 28 Data Dictionary Table for EMERGENCY\_CONTACT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Format** | **Key** | **Description** |
| emergencycon\_id | INT | N/A | PK | Unique identifier for each emergency contact record. |
| contact\_lname | VARCHAR(70) | 1 to 70 characters | N/A | Last name of the emergency contact of the patient. |
| contact\_fname | VARCHAR(70) | 1 to 70 characters | N/A | First name of the emergency contact of the patient. |
| contact\_address | VARCHAR(150) | 1 to 150 characters | N/A | Address of the emergency contact of the patient. |
| contact\_relationship | VARCHAR(45) | 1 to 45 characters | N/A | Relationship of the emergency contact with the patient. |
| emcontact\_num | VARCHAR(45) | 1 to 45 characters | N/A | Contact number of the emergency contact of the patient. |

# **Updated Product Backlog/User Stories**

Table 29 User Stories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User Stories** | | | | |
| **ID** | **As a..** | **I want to be able to…** | **So that…** | **Priority** |
| 001 | Nurse | Check scheduled appointments. | I would know if there were any conflicts with my schedule. | **Must** |
| 002 | Nurse | Notified when appointment is cancelled. | I’m not wasting my time waiting if someone will come or not. | **Should** |
| 003 | Patient | Schedule an appointment online and check real-time available slots to set an appointment. | I don’t have to physically come to the clinic when setting up appointments and I would know the available time and date slots. | **Must** |
| 004 | Nurse | Manage medicine inventory. | I know when to request new stocks and to prevent overstocking of medicines. | **Should** |
| 005 | Nurse | Generate summary reports monthly and annually. | I can complete monthly and annual reports faster. | **Should** |
| 006 | Nurse | Edit the calendar. | I can let the patients know when the available time and dates are available. | **Must** |

# **Partially Working Cloud-hosted Prototype**

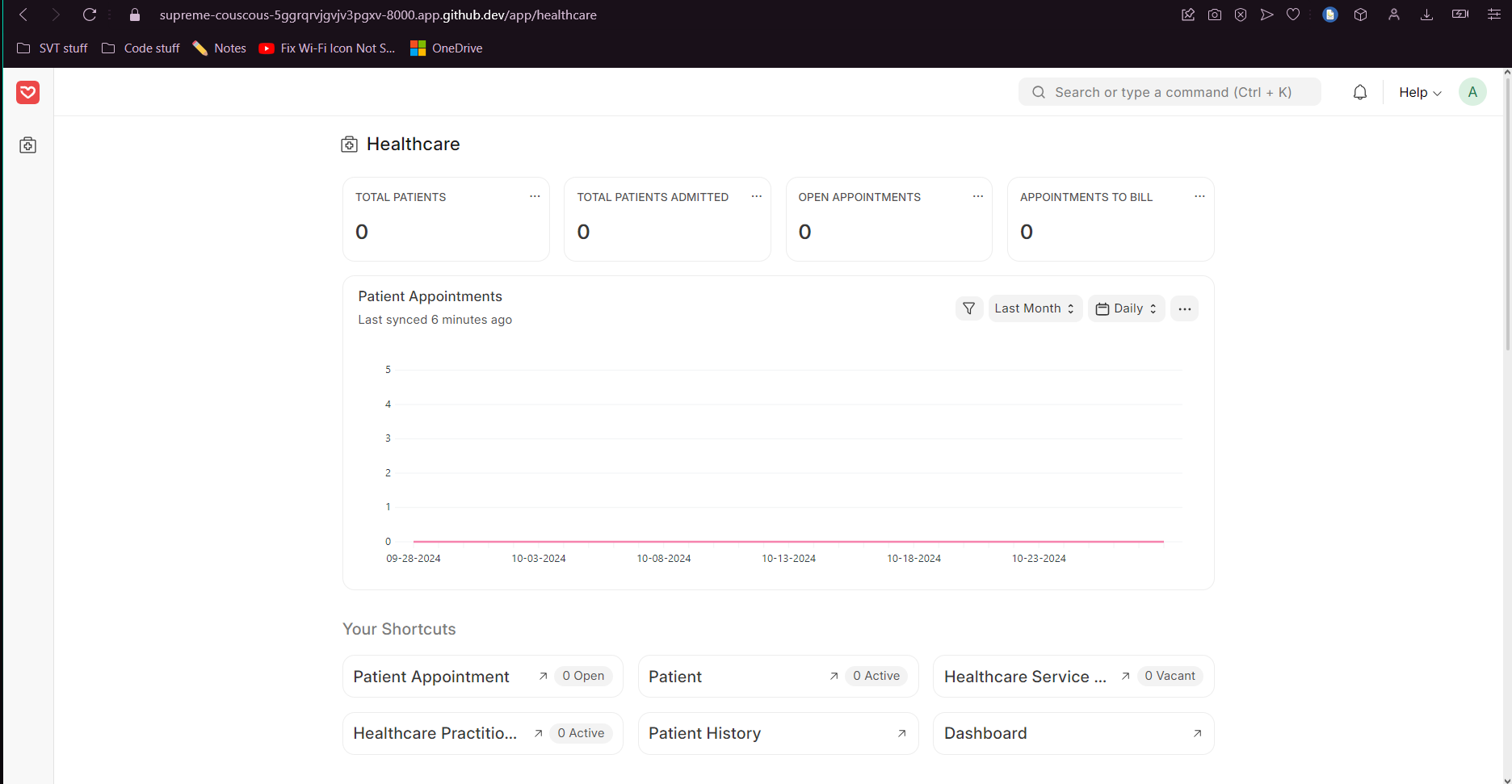


Figure 20 Healthcare tab

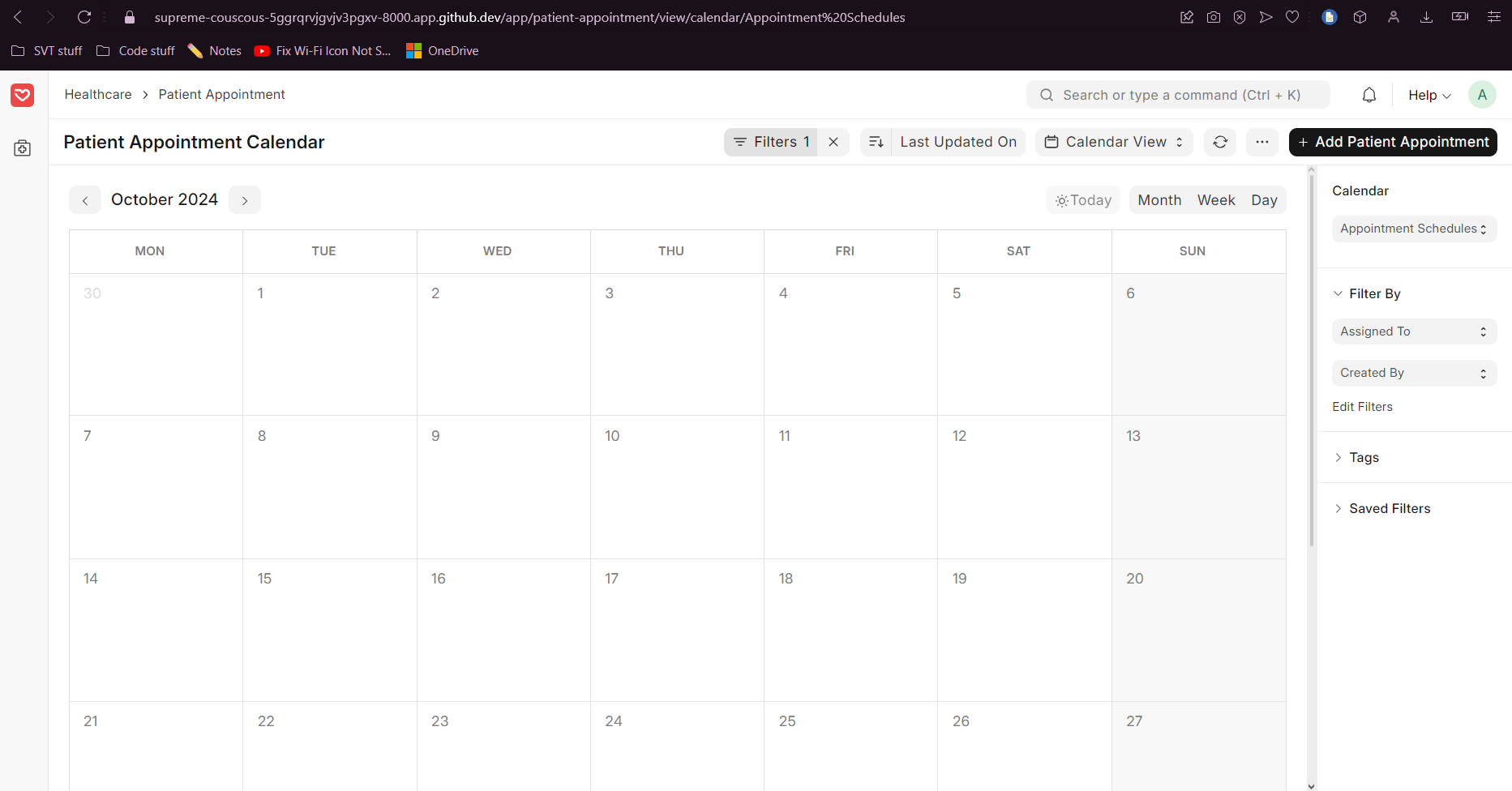


Figure 21 Patient Appointment Calendar tab

# **Prototype**

## **Technology Stack**

1. Git

* A distributed version management system that is free and open source and made to work quickly and effectively on projects of all sizes.

1. GitHub Codespaces

* Cloud-based development environment directly within GitHub.

1. Figma

* A collaborative design tool for building our diagrams and system design.

1. Visual Paradigm

* A collaborative tool that we used to create and edit our use case diagram.

1. SqlDBM

* A web-based data modeling tool that we used to create and edit our Entity Relationship Diagram.

1. Frappe

* The web application framework that we used for developing the system.

## **Github Project Repository**

The link below leads to the team’s GitHub repository, where they collaborate and manage the system:

<https://github.com/kentko27/prims-healthcare.git>

<https://github.com/APC-SoCIT/APC-2024-2025-T1-04-APC-Clinic---PRIMS>

# **Conclusion**

In conclusion, the Patient Record and Interaction Management System (PRIMS) project is a meaningful step forward for healthcare at Asia Pacific College’s Clinic. By using tools like data flow diagrams and use case diagrams, we've been able to design a system that simplifies how students and faculty can schedule appointments and manage clinic inventory. This means less waiting and more focus on providing quality care.

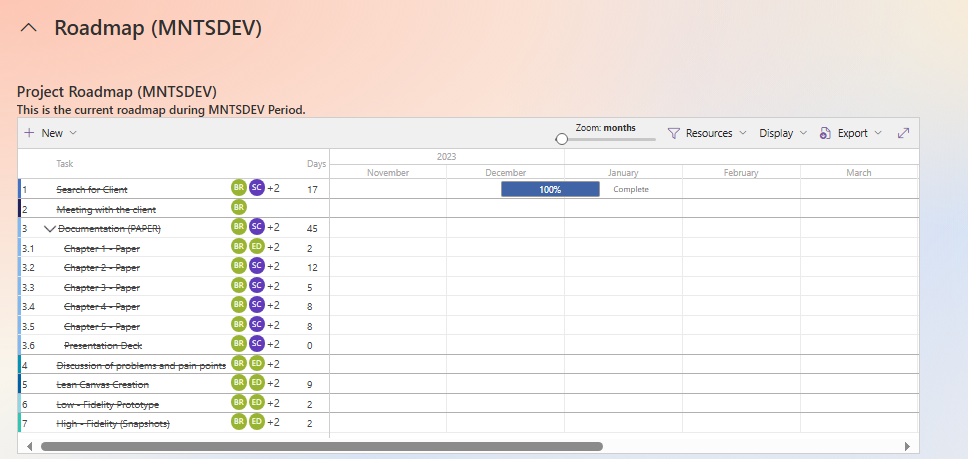
PRIMS is all about making healthcare more accessible and efficient for everyone on campus. Ultimately, this project highlights how technology can enhance our everyday experiences, ensuring that students and faculty receive the support they need in a more streamlined and user-friendly way.

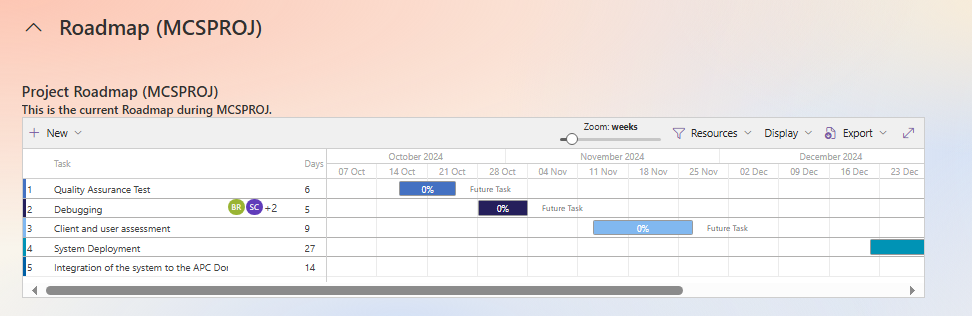
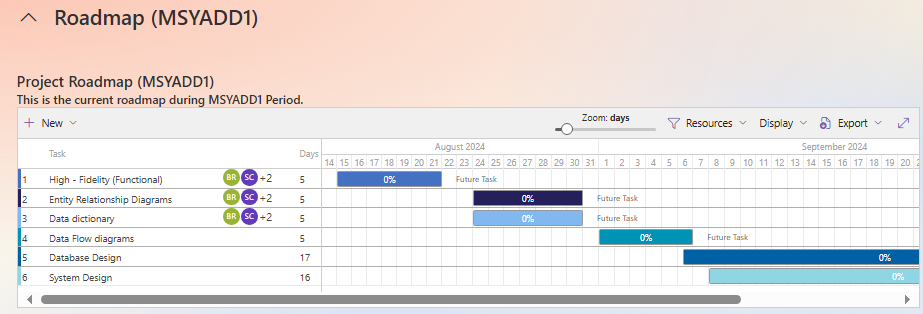
# **Appendices**

## **Appendix A: Project Vision**

APC Clinic wants to save time on setting up appointments and an efficient way of managing and handling medical patient records. Thus, introducing PRIMS, a Patient Record & Interaction Management System that provides a record management and appointment scheduling system that fosters healthcare for their patients in Asia Pacific College.

## **Appendix B: Schedule**





## **Appendix C: Release Plan**

**Target Group:** Asia Pacific College Clinic

**Goal**: Automate and digitize various processes of the school clinic.

**Needs**: A web-based system accessible to everyone within the APC community.

**Value**: The system will help reduce the time and effort required to schedule appointments, retrieve patients’ medical records, and generate monthly summary reports. It will also provide an efficient way to track the stocks of medical supplies and notify the patients about the statuses of their appointments.

**Key Features:** User Log in, Appointment Scheduling, Medical Records Database, Inventory System, Notification Alerts

**Release Plan:**

Our team’s release plan will be divided into three sections.

**Phase 1**

High Fidelity Prototype (Snapshots)

Research Documentation/Paper

  Presentation Deck

**Phase 2**

High Fidelity Prototype (Functional)

System Design

Model Diagrams

**Phase 3**

Deployed System

Quality Assurance Testing 

## **Appendix D: Product Roadmap**

|  |  |  |
| --- | --- | --- |
| **MNTSDEV** | **MSYADD1** | **MCSPROJ** |
| **Client**   * Search for possible clients * Meetings with the client * Discussion of problems and pain points * Lean canvas creation     **Project Proposal**   * High-fidelity prototype (design) * Documentation paper (Chapter 1 to 5) * Presentation deck | **Design and Modeling**   * High-fidelity prototype (functional) * Entity Relationship Diagrams * Data Dictionary * Data Flow Diagrams * System Design * Database Design | **Testing**   * Quality assurance * Debugging * Client and user assessment     **Deployment**   * System deployment * Integration of the system to the APC domain |

## **Appendix E: Minutes of the Meetings**

### **1st Meeting for MSYADD1**

August 13, 2024 || **Time Start:**  10:45 A.M. >> **Time End:**  11:20 A.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.



*Screenshot from the start of the meeting*

|  |  |
| --- | --- |
| **Meeting Facilitator:** Byron Louis Rabajante  **Secretary (Assigned to take the meeting minutes):**  Clart Kent Nailgas | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | Use case and User diagram |
| Agenda 02 | Figma or Visual Paradigm? |
| Agenda 03 | Assigning Of Tasks |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Admin View (Use Case) | **August 18, 2024, Sunday** 11:59PM |
| Nailgas, Clart Kent | Student View (Use Case) | **August 18, 2024, Sunday** 11:59PM |
| Catingub, Shannelien Mae | Admin View (Use Case) | **August 18, 2024, Sunday** 11:59PM |
| Daduya, Erika Alessandra | Student View (User Diagram and Use Case) | **August 18, 2024, Sunday** 11:59PM |



*Screenshot from the end of the meeting*

**Conclusion/s**

After careful consideration, our team has made the strategic decision to transition from Visual Paradigm to Figma as our primary tool for design and collaboration. This shift is rooted in our growing focus on creating intuitive, user-centered designs, and the recognition that Figma is better suited to meet our evolving needs.

The decision to adopt Figma is a strategic move that aligns with our goal of enhancing our design workflows, fostering greater collaboration, and delivering superior user experiences. While Visual Paradigm served us well in the past, particularly in the realm of development and system modeling, Figma offers the modern, design-centric tools that our team needs to succeed in today's competitive landscape. We are confident that this transition will empower our team to work more efficiently, innovate more freely, and ultimately create better products for our users

**Link/s**

Link to recording: [Click here](https://asiapacificcollege.sharepoint.com/:v:/r/sites/MSYADD1MI222SF221T1AY2024-2025/Shared%20Documents/04%20Wonder%20Pets/Recordings/Meeting%20in%20_04%20Wonder%20Pets_-20240813_105135-Meeting%20Recording.mp4?csf=1&web=1&e=UrLoED)

### **2nd Meeting for MSYADD1**

August 20, 2024 || **Time Start:** 10:50 A.M. >> **Time End:** 11:00 A.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.



*Screenshot from the start of the meeting*

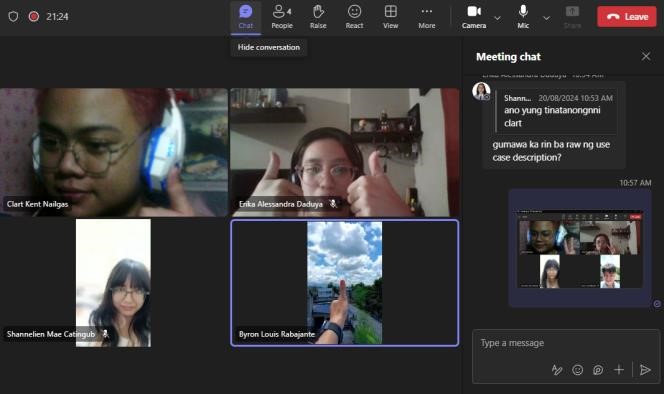
|  |  |
| --- | --- |
| **Meeting Facilitator:** Clart Kent Nailgas  **Secretary (Assigned to take the meeting minutes):** Erika Alessandra Daduya | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | What development platform we will be using? |
| Agenda 02 | Use case diagrams and fully dress descriptions |
| Agenda 03 | Assigning of Tasks |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Research frameworks for clinics, if possible. | **August 24, 2024,** Saturday 11:59PM |
| Nailgas, Clart Kent | Fully dressed description, rechecking, and expansion | **August 24, 2024,** Saturday 11:59PM |
| Catingub, Shannelien Mae | Look for possible expansions in the use case diagrams and change format. | **August 24, 2024,** Saturday 11:59PM |
| Daduya, Erika Alessandra | Look for possible expansions in the use case diagrams and change format. | **August 24, 2024,** Saturday 11:59PM |



*Screenshot from the end of the meeting*

**Conclusion/s**

We are still undecided about what development platform to use and will consult our adviser for advises and opinions as well as the ITRO for possible use of AWS. Use case diagrams will be reworked as well as the Fully dressed user case descriptions.

**Link/s**

Link to recording[:](https://asiapacificcollege.sharepoint.com/sites/MSYADD1MI222SF221T1AY2024-2025/Shared%20Documents/04%20Wonder%20Pets/Recordings/Meeting%20in%20_04%20Wonder%20Pets_-20240820_105013-Meeting%20Recording.mp4?web=1&referrer=Teams.TEAMS-ELECTRON&referrerScenario=MeetingChicletExpiration.view) [Click here](https://asiapacificcollege.sharepoint.com/:v:/r/sites/MSYADD1MI222SF221T1AY2024-2025/Shared%20Documents/04%20Wonder%20Pets/Recordings/Meeting%20in%20_04%20Wonder%20Pets_-20240820_105013-Meeting%20Recording.mp4?csf=1&web=1&e=mFtWgZ)

### **3rd Meeting for MSYADD1**

August 27, 2024 || **Time Start:** 10:18 A.M. >> **Time End:** 11:11 A.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.



*Screenshot from the start of the meeting*

|  |  |
| --- | --- |
| **Meeting Facilitator:** Clart Kent Nailgas  **Secretary (Assigned to take the meeting minutes):**  Erika Alessandra Daduya | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | Sending of Late Documents to Adviser |
| Agenda 02 | Use of GPT on Test Case |
| Agenda 03 | Template and Formatting |
| Agenda 04 | Assigning of Tasks |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Creating and Finishing the Test Case 2 using GPT | **August 30, 2024, Friday** 11:59PM |
| Nailgas, Clart Kent | Creating and Finishing the Test Case 3 using GPT | **August 30, 2024, Friday** 11:59PM |
| Catingub, Shannelien Mae | Creating and Finishing the Test Case 4 using GPT | **August 30, 2024, Friday** 11:59PM |
| Daduya, Erika Alessandra | Creating and Finishing the Test Case 5 using GPT | **August 30, 2024, Friday** 11:59PM |



*Screenshot from the end of the meeting*

**Conclusion/s**

Still waiting for the adviser's feedback/review on the diagrams.

**Link/s**

Link to recording: [Click here](https://asiapacificcollege.sharepoint.com/:v:/r/sites/MSYADD1MI222SF221T1AY2024-2025/Shared%20Documents/04%20Wonder%20Pets/Recordings/Test%20Case-20240826_204055-Meeting%20Recording.mp4?csf=1&web=1&e=xPSFNB)

### **4th Meeting for MSYADD1**

August 30, 2024 || **Time Start:** 10:40 A.M. >> **Time End:** 11:20 A.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.



*Screenshot from the start of the meeting*

|  |  |
| --- | --- |
| **Meeting Facilitator:** Clart Kent Nailgas  **Secretary (Assigned to take the meeting minutes):**  Shannelien Mae Catingub | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | Discussion of Different Frameworks |
| Agenda 02 | Activity Diagram |
| Agenda 03 | Revision of Use Cases and Test Cases |
| Agenda 04 | Assigning of Tasks |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Creating and Finishing the Test Case 2 using GPT | **September 1, 2024, Sunday** 11:59PM |
| Nailgas, Clart Kent | Creating and Finishing the Test Case 3 using GPT | **September 1, 2024, Sunday** 11:59PM |
| Catingub, Shannelien Mae | Creating and Finishing the Test Case 4 using GPT | **September 1, 2024, Sunday** 11:59PM |
| Daduya, Erika Alessandra | Creating and Finishing the Test Case 5 using GPT | **September 1, 2024, Sunday** 11:59PM |



*Screenshot from the end of the meeting*

**Conclusion/s**

We are now preparing and researching frameworks for our system, and we will now proceed on revisions.

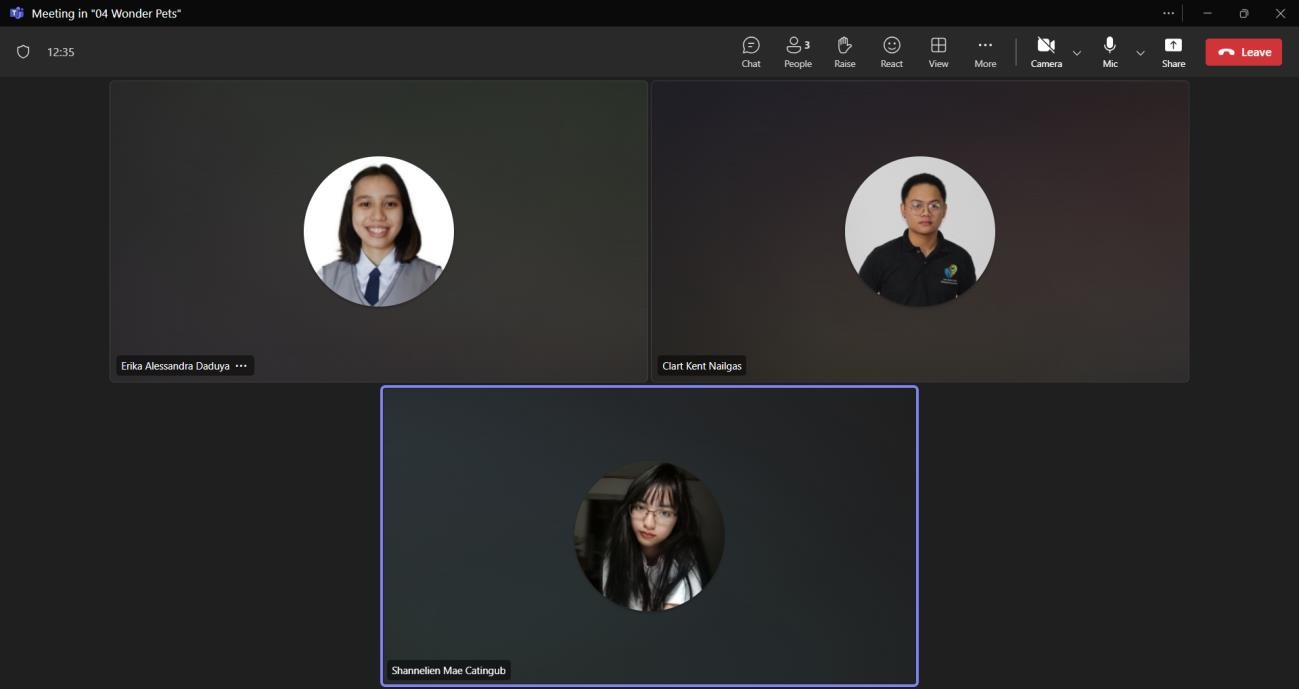
**Link/s**

Link to recording: [Click here](https://asiapacificcollege.sharepoint.com/:v:/r/sites/MSYADD1MI222SF221T1AY2024-2025/Shared%20Documents/04%20Wonder%20Pets/Recordings/Meeting%20in%20_04%20Wonder%20Pets_-20240830_103502-Meeting%20Recording.mp4?csf=1&web=1&e=xePdVE)

### **5th Meeting for MSYADD1**

September 24, 2024 || **Time Start:** 10:45 A.M. >> **Time End:** 10:50 A.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.



*Screenshot from the start of the meeting*

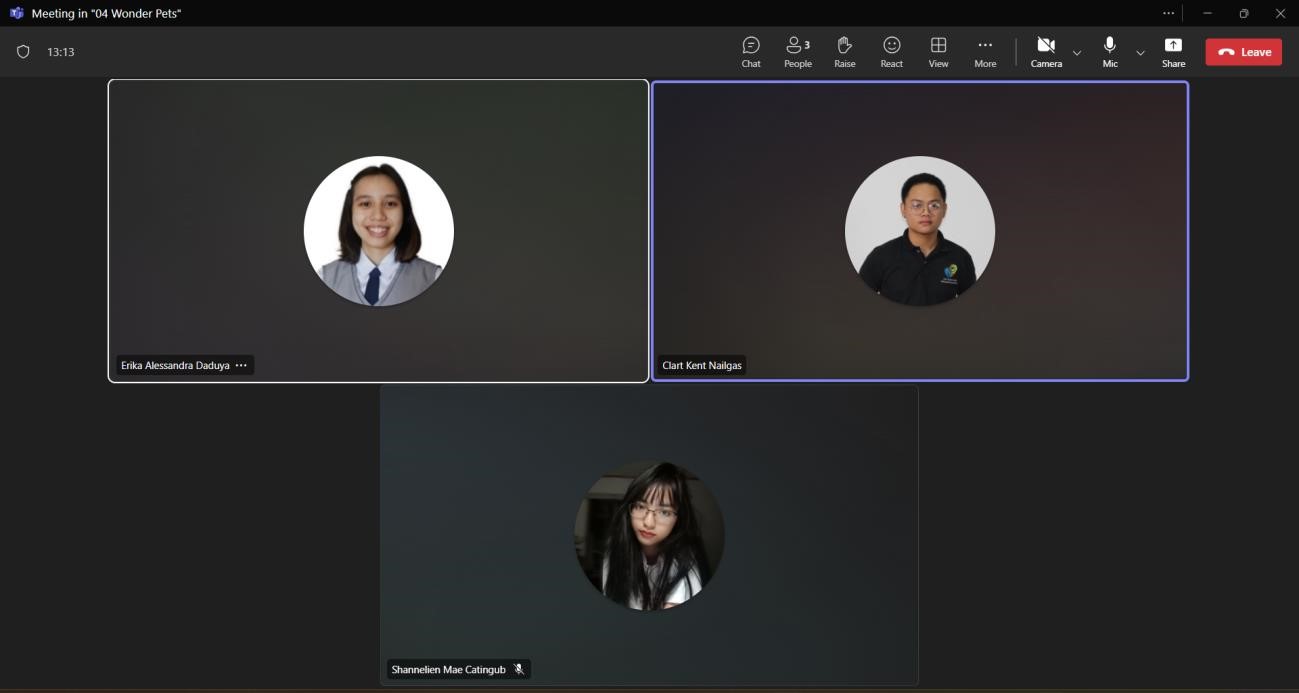
|  |  |
| --- | --- |
| **Meeting Facilitator:** Clart Kent Nailgas  **Secretary (Assigned to take the meeting minutes):**  Shannelien Mae Catingub | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | Revise Swimlane Diagram |
| Agenda 02 | Start ERD |
| Agenda 03 | Assigning of Tasks |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Revising Swimlane Diagram | **September 26, 2024, Thursday** 11:59PM |
| Nailgas, Clart Kent | Creating ERD | **October 1, 2024, Tuesday** 11:59PM |
| Catingub, Shannelien Mae | Revising Swimlane Diagram | **September 26, 2024, Thursday** 11:59PM |
| Daduya, Erika Alessandra | Revising Swimlane Diagram | **September 26, 2024, Thursday** 11:59PM |



*Screenshot from the end of the meeting*

**Conclusion/s**

We are finishing the Swimlane diagram and creating a data dictionary for our ERD.

**Link/s**

Link to recording: [Click here](https://asiapacificcollege.sharepoint.com/:v:/r/sites/MSYADD1MI222SF221T1AY2024-2025/Shared%20Documents/04%20Wonder%20Pets/Recordings/Meeting%20in%20_04%20Wonder%20Pets_-20240924_105134-Meeting%20Recording.mp4?csf=1&web=1&e=QieDP8)

### **6th Meeting for MSYADD1**

October 4, 2024 || **Time Start:** 3:00 P.M. >> **Time End:** 3:30 P.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.

|  |  |
| --- | --- |
| **Meeting Facilitator:** Clart Kent Nailgas  **Secretary (Assigned to take the meeting minutes):**  Shannelien Mae Catingub | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | Revision of diagrams based on panelists feedback |
| Agenda 02 | Creation of ERD |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Revision of Activity Diagrams and DFD Lvl 2. | **October 5, 2024, Saturday** 11:59PM |
| Nailgas, Clart Kent | Revision of DFD Lvl 2 and  Continuation of ERD | **October 5, 2024, Saturday** 11:59PM |
| Catingub, Shannelien Mae | Revision of Activity Diagrams and DFD Lvl 2. | **October 5, 2024, Saturday** 11:59PM |
| Daduya, Erika Alessandra | Revision of Activity Diagrams and DFD Lvl 2. | **October 5, 2024, Saturday** 11:59PM |

**Conclusion/s**

We are finishing the Revision of our diagrams based on our panelist's comment/feedback.

**Link/s**

Link to recording: N/A

### **7th Meeting for MSYADD1**

October 11, 2024 || **Time Start:** 3:00 P.M. >> **Time End:** 3:30 P.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.

|  |  |
| --- | --- |
| **Meeting Facilitator:** Clart Kent Nailgas  **Secretary (Assigned to take the meeting minutes):**  Shannelien Mae Catingub | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | Revision of diagrams based on panelists feedback |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Revision of ERD | **October 16, 2024, Wednesday** 11:59PM |
| Nailgas, Clart Kent | Revision of ERD | **October 16, 2024, Wednesday** 11:59PM |
| Catingub, Shannelien Mae | Revision of ERD | **October 16, 2024, Wednesday** 11:59PM |
| Daduya, Erika Alessandra | Revision of ERD | **October 16, 2024, Wednesday** 11:59PM |

**Conclusion/s**

We are finishing the revision of ERD based on our adviser’s comment/feedback.

**Link/s**

Link to recording: N/A

### **8th Meeting for MSYADD1**

October 18, 2024 || **Time Start:** 10:50 A.M. >> **Time End:** 11:30 A.M.

Patient Record Interactive Management System (PRIMS) The Patient Record and Interaction Management System, also known as PRIMS, project at Asia Pacific College’s Clinic is designed to streamline healthcare access for students and faculty. By enabling effortless appointment scheduling with nurses and managing clinic inventory, PRIMS aims to enhance the efficiency and effectiveness of healthcare services on campus.



*Screenshot from the start of the meeting*

|  |  |
| --- | --- |
| **Meeting Facilitator:** Clart Kent Nailgas  **Secretary (Assigned to take the meeting minutes):**  Shannelien Mae Catingub | |
| **List of attendees** | **Roles** |
| Rabajante, Byron  Nailgas, Clart Kent  Catingub, Shannelien Mae  Daduya, Erika Alessandra | **PROJECT LEAD**  **PRESENTATION LEAD**  **DOCUMENTATION LEAD**  **PROGRAMMING LEAD** |

**Agenda/s**

|  |  |
| --- | --- |
| **Agenda No.** | **Discussion** |
| Agenda 01 | Creation of Mock Presentation for Adviser |
| Agenda 02 | Revision of Diagrams and Use Case base on Panelists Comments |
| Agenda 03 | Continuation of ERD |

**Action/s**

|  |  |  |
| --- | --- | --- |
| **Name of assigned person** | **Task/s** | **Deadline** |
| Rabajante, Byron | Revision of Activity Diagrams. Created a mock presentation deck. | **October 24, 2024, Thursday** 11:59PM |
| Nailgas, Clart Kent | Revision of ERD & DFD. Created a mock presentation deck. | **October 24, 2024, Thursday** 11:59PM |
| Catingub, Shannelien Mae | Revision of Activity Diagrams. Created a mock presentation deck. | **October 24, 2024, Thursday** 11:59PM |
| Daduya, Erika Alessandra | Revision of UCD & DFD. Created a mock presentation deck. | **October 24, 2024, Thursday** 11:59PM |



*Screenshot from the end of the meeting*

**Conclusion/s**

We plan to present a mock presentation to our adviser on Wednesday before we present our final presentation on Friday.

**Link/s**

Link to recording: [Click here](https://asiapacificcollege.sharepoint.com/:v:/r/sites/MSYADD1MI222SF221T1AY2024-2025/Shared%20Documents/04%20Wonder%20Pets/Recordings/Meeting%20in%20_04%20Wonder%20Pets_-20241018_105529-Meeting%20Recording.mp4?csf=1&web=1&e=Sd7GTf)