RIPHAH INTERNATIONAL UNIVERSITY
Project Artifacat#2

NAME: AHMED AZIZ

SAP ID: 55223

Course: Software Construction and development

Use Case 4.1 — View Daily Assigned Patients & Schedule:

Use case section	Details	
Use Case No	4.1	
Use case name	View Daily Assigned Patients & Schedule	
Actor	Nurse	
Type	Primary	
Description	Nurse views the list of patients assigned for the day along with their schedule.	
Preconditions	Nurse must be logged in.	
Postconditions	Assigned patients and schedule are displayed.	
Main Success Flow	**Actor Action:**	**System Response**
	1. Nurse selects **"Assigned Patients & Schedule"**.	
		2. System retrieves assigned patients. 3. System displays the list and schedule.
Alternative Flow	A1.1 If no patients assigned, system shows **"No patients assigned for today."**	

Use Case 4.2 — View Duty Location

Use case section	Details	
Use Case No	4.2	
Use case name	View Duty Location	
Actor	Nurse	
Type	Primary	
Description	Nurse views their assigned duty location (ward/room/department).	
Preconditions	Nurse must be logged in.	
Postconditions	Duty location is displayed.	
Main Success Flow	**Actor Action**	**System Response**
	1. Nurse selects **"Duty Location"**.	
		2. System fetches assigned location. 3. System displays the duty location.
Alternative Flow	A1.1 If no location assigned, system shows **"No duty location assigned."**	

Use Case 4.3 — View Shift Timing:

Use case section	Details	
Use Case No	4.3	
Use case name	View Shift Timing	
Actor	Nurse	
Type	Primary	
Description	Nurse views start and end time of their shift.	
Preconditions	Nurse must be logged in.	
Postconditions	Shift timing is displayed.	
Main Success Flow	**Actor Action**	**System Response**
	1. Nurse selects **"Shift Timing"**.	
		2. System retrieves shift duration. 3. System displays shift start–end time.
Alternative Flow	A1.1 If shift info missing, system shows **"Shift information unavailable."**	

Use Case 4.4— Record & Update Patient Vitals:

Use case section	Details	
Use Case No	4.4	
Use case name	Record & Update Patient Vitals	
Actor	Nurse	
Type	Primary	
Description	Nurse records and updates patient vitals: BP, temperature, pulse.	
Preconditions	Nurse must have access to patient records.	
Postconditions	Updated vitals saved successfully.	
Main Success Flow	**Actor Action**	**System Response**
	1. Nurse selects a patient.	
		2. System opens patient record.
	3. Nurse enters vitals.	
		4. System validates the vitals.
Alternative Flow	A1.1 If vitals invalid, system shows **"Enter valid vitals."**	

Use Case 4.5 — Mark Triage Level:

Use case section	Details	
Use Case No	4.5	
Use case name	Mark Triage Level	
Actor	Nurse	
Type	Primary	
Description	Nurse selects a triage level for an emergency patient.	
Preconditions	Patient must be listed as emergency.	
Postconditions	Triage level updated.	
Main Success Flow	**Actor Action**	**System Response**
	1. Nurse opens emergency patient record.	
		2. System shows triage options.
	3. Nurse selects Critical/Serious/Stable.	
		4. System updates triage status.
Alternative Flow	A1.1 If no option selected, system shows **"Please select a triage level."**	

Use Case 4.6 — Update Patient Progress Notes

Use case section	Details	
Use Case No	4.6	
Use case name	Update Patient Progress Notes	
Actor	Nurse	
Type	Primary	
Description	Nurse updates the patient's daily progress notes.	
Preconditions	Nurse must access patient record.	
Postconditions	Notes updated successfully.	
Main Success Flow	**Actor Action**	**System Response**
	1. Nurse selects a patient.	
		2. System loads notes section.
	3. Nurse writes/updates notes.	
		4. System saves the notes.
Alternative Flow	A1.1 If notes empty, system shows **"Notes cannot be blank."**	

Use Case 4.7— Send Emergency Doctor Alert

Use case section	Details	
Use Case No	4.7	
Use case name	Send Emergency Doctor Alert	
Actor	Nurse	
Type	Primary	
Description	Nurse sends an alert to the doctor during emergency conditions.	
Preconditions	Nurse must be logged in and assigned to patient.	
Postconditions	Doctor receives alert.	
Main Success Flow	**Actor Action**	**System Response**
	1. Nurse selects **"Emergency Alert"**.	
		2. System prepares the alert.
	3. Nurse confirms sending.	4. System sends alert.
		5. System shows **"Alert sent successfully."**
Alternative Flow	A1.1 If alert fails, system shows **"Alert sending failed, try again."**	

LAB TECHNICIAN

Use Case 5.1   Receive Lab Test Requests

Use Case Section	Details	
Use Case No	5.1	
Use case name	Receive Lab Test Requests	
Actor	Lab Technician	
Type	Primary	
Description	Lab Technician views the start and end time of their assigned shift.	
Preconditions	Technician must be logged in.	
Postconditions	Lab test request is displayed and marked as received.	
Main Success flow	**Actor Action**	**System Response**
	1 Lab Technician selects "Lab Test Requests".	2. System fetches all new test requests. 3. System displays the list of pending test requests.
Alternative flow	**A1.1** If no new requests exist, system shows **"No new lab test requests."**	

Use Case 5.2 — Update Lab Test Status

Use Case Section	Details	
Use Case No	5.2	
Use case name	Update Lab Test Status	
Actor	Lab Technician	
Type	Primary	
Description	Lab Technician updates the status of lab tests (Pending, In Progress, Completed).	
Preconditions	Test must exist in the system	
Postconditions	Updated status is saved.	
Main Success flow	**Actor Action**	**System Response**
	1 Technician selects a lab test.	2 System loads test details.
	3 Technician selects status (Pending/In Progress/Completed).	4 System updates and saves status.
Alternative flow	**A1.1** If no status selected, system shows **"Please select a status."**	

Use Case 5.3 — Upload Lab Test Results

Use Case Section	Details	
Use Case No	5.3	
Use case name	Upload Lab Test Results	
Actor	Lab Technician	
Type	Primary	
Description	Lab Technician uploads the completed test results into the system.	
Preconditions	Test must be marked as completed.	
Postconditions	Result document/file is uploaded and linked to the patient record.	
Main Success flow	**Actor Action**	**System Response**
	1 Technician opens a completed test. 3 Technician uploads result file.	2 System displays upload option. 4. System validates and saves the file. 5. System shows "Results uploaded successfully."
Alternative flow	**A1.1** If file format invalid → **"Upload failed: invalid file format."**	

Use Case 5.4 — Print & Deliver Lab Test Reports:

Use Case Section	Details	
Use Case No	5.4	
Use case name	Print & Deliver Lab Test Reports	
Actor	Lab Technician	
Type	Primary	
Description	Technician prints completed reports and hands them to patients or the concerned doctor.	
Preconditions	Report must be available in the system.	
Postconditions	Report printed and delivery recorded.	
Main Success flow	**Actor Action**	**System Response**
	1 Technician selects a completed report. 3 Technician selects "Print".	2 System loads the report. 4 System sends report to printer. 5 System shows "Report printed successfully."
Alternative flow	**A1.1** If printer error occurs → System shows **"Printing failed, please check printer."**	

Use Case 5.5 — Notify Patients or Doctors of Report Readiness:

Use Case Section	Details	
Use Case No	5.5	
Use case name	Notify Patients or Doctors of Report Readiness	
Actor	Lab Technician	
Type	Primary	
Description	Technician sends notification to patient or doctor when a lab report is ready.	
Preconditions	Test result must be uploaded.	
Postconditions	Notification delivered.	
Main Success flow	**Actor Action**	**System Response**
	1 Technician selects "Notify Recipient". 3 Technician confirms sending notification.	2 System loads patient/doctor contact info 4 System sends notification. 5 System shows "Notification sent successfully."
Alternative flow	**A1.1** If sending fails → **"Notification failed, try again."**	

Use Case 5.6 — Manage Laboratory Inventory:

Use Case Section	Details	
Use Case No	5.6	
Use case name	Manage Laboratory Inventory	
Actor	Lab Technician	
Type	Primary	
Description	Technician manages items such as test kits, equipment availability, and stock counts.	
Preconditions	Technician must have inventory access.	
Postconditions	Updated inventory saved.	
Main Success flow	**Actor Action**	**System Response**
	1 Technician selects "Inventory Management".	2 System displays current inventory list.
	3 Technician adds/updates stock details.	4 System saves changes.
Alternative flow	**A1.1** If invalid quantity entered → **"Enter valid inventory amount."**	

Use Case 5.7 — View Shift Timing

Use Case Section	Details	
Use Case No	5.7	
Use case name	View Shift Timing	
Actor	Lab Technician	
Type	Primary	
Description	Lab Technician views the start and end time of their assigned shift.	
Preconditions	Technician must be logged in.	
Postconditions	Shift schedule displayed.	
Main Success flow	**Actor Action**	**System Response**
	1 Technician selects "Shift Timing".	2 System retrieves assigned shift. 3 System displays start–end time.
Alternative flow	**A1.1** If shift info missing → **"Shift information unavailable."**	