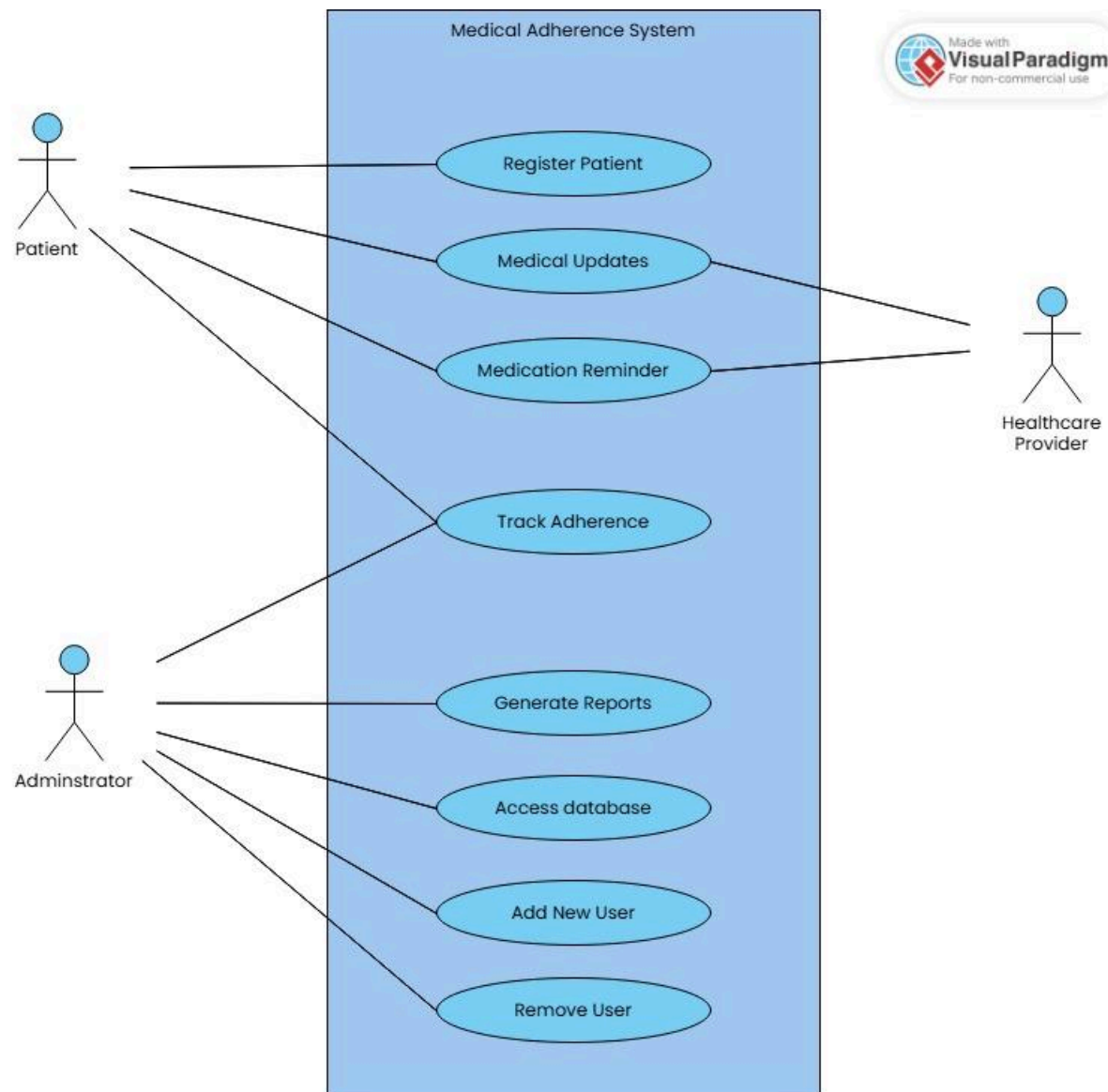


Diwashna Poudel - poudeld@vcu.edu
Sanskriti Gyawali - gyawalis3@vcu.edu
Jenan Qasem - qasemjs@vcu.edu
Alexia Jennings - jenningsac@vcu.edu
Arushi Chaturvedi - chaturvedia2@vcu.edu



- **REQ1:** The system should allow the *patient* to *register themselves*.
- **REQ2:** The system should allow the *patient* to *update medical data*.
- **REQ3:** The system should allow the *patient* to *receive reminders*.
- **REQ4:** The system should allow the *patient* to *track adherence*.
- **REQ5:** The system should allow the *administrator* to *track adherence*.
- **REQ6:** The system should allow the *administrator* to *generate reports*.
- **REQ7:** The system should allow the *administrator* to *Add users*.
- **REQ8:** The system should allow the *administrator* to *Remove users*.
- **REQ9:** The system should allow the *administrator* to *Access database*.
- **REQ10:** The system should allow the *Healthcare Provider* to *view Medical Updates*.
- **REQ11:** The system should allow the *Healthcare Provider* to *view Medication Reminders*.

Register Patient	
Process:	<p>The patient provides personal details, contact information, and medical history.</p> <p>The system verifies the information and creates an account.</p> <p>Login credentials are generated and sent to the patient.</p>
Initial Assumptions:	<p>The patient has access to the system.</p>
Normal Process:	<p>The patient navigates to the registration page.</p> <p>The patient enters their personal details and medical history.</p> <p>The system validates the information.</p> <p>If valid, the system creates an account.</p> <p>The patient receives a confirmation with login credentials.</p>

What can go wrong:	<p>The patient provides incomplete or incorrect information.</p> <p>The system encounters an error during registration.</p> <p>A duplicate account is detected.</p>
State on completion:	The patient account is successfully created.

Medical Updates	
Process:	<p>Patient logs in and navigates to the medical updates section.</p> <p>Updates are entered and submitted for review.</p> <p>The system records the updates and notifies the healthcare provider.</p>
Initial Assumptions:	The patient has logged into their account.
Normal Process:	<p>The patient navigates to the medical updates section.</p> <p>The patient enters or updates their medical information.</p> <p>The system validates and stores the update.</p> <p>The healthcare provider is notified of the update.</p>

What can go wrong:	<p>The patient provides incorrect or incomplete information.</p> <p>The system fails to update the data.</p>
State on completion:	<p>The patient's medical records are updated and accessible by healthcare providers.</p>

Medical Reminder

Process:	<p>The system generates reminders based on prescribed medication schedules.</p> <p>Reminders are sent via notifications, SMS, or email.</p> <p>The patient receives and acknowledges reminders.</p>
Initial Assumptions:	<p>The system is configured with the correct schedule.</p>
Normal Process:	<p>The system generates reminders based on the patient's prescription schedule.</p> <p>The system sends notifications via email, SMS, or in-app alerts.</p> <p>The patient receives and acknowledges the reminder.</p>

What can go wrong:	<p>The notification is not received due to connectivity issues.</p> <p>The reminder schedule is incorrect.</p>
State on completion:	<p>The patient is reminded of their medication schedule.</p>

Track Adherence	
Process:	<p>The system logs patient adherence data.</p> <p>Patients mark medication intake in the system.</p> <p>The system generates adherence reports for healthcare providers.</p>
Initial Assumptions:	<p>The patient has access to the adherence tracking system.</p>
Normal Process:	<p>The patient logs in and marks their medication intake.</p> <p>The system records the adherence data.</p> <p>Healthcare providers and administrators can view adherence reports.</p>

What can go wrong:	<p>The patient forgets to log their adherence.</p> <p>The system fails to store adherence data.</p>
State on completion:	The patient's adherence data is logged and available for tracking.

Generate Report	
Process:	<p>The administrator requests a report on adherence or medical data.</p> <p>The system compiles data and generates a report.</p> <p>The report is available for viewing and export.</p>
Initial Assumptions:	The administrator has access to the report generation module
Normal Process:	<p>The administrator selects report criteria.</p> <p>The system compiles and processes the data.</p> <p>The system generates a downloadable report.</p>
What can go wrong:	<p>Insufficient data for generating a meaningful report.</p> <p>System errors during report generation.</p>

State on completion:	A report is generated and available for viewing or export.
----------------------	--

Add/Remove Patient	
Process:	<p>The administrator selects the option to add or remove a patient.</p> <p>For adding, patient details are entered and verified.</p> <p>For removing, the patient record is flagged for deactivation.</p>
Initial Assumptions:	The administrator has the required access permissions.
Normal Process:	<p>The administrator selects the add/remove patient option.</p> <p>For adding: The administrator enters and verifies patient details.</p> <p>For removing: The administrator selects a patient record for deactivation.</p> <p>The system updates patient records accordingly.</p>
What can go wrong:	<p>Incorrect patient data entered.</p> <p>Unintentional deletion of patient records.</p>
State on completion:	The patient is successfully added or removed from the system.

Access Database

Process:	The administrator logs in and accesses the database interface. Data can be retrieved, updated, or analyzed as needed.
Initial Assumptions:	The administrator has the necessary permissions.
Normal Process:	The administrator logs in and accesses the database interface. The administrator retrieves, updates, or analyzes data as needed.
What can go wrong:	Unauthorized access attempts. Data corruption or loss.
State on completion:	The database is accessed successfully without security issues.