Project Name:	Medicine Adherance System
Module Name:	1.1 New User
Reference Document:	CMSC 355 Requirments (Use Cases)
Created By:	Inayah O'Neil
Date of Creation:	3/18/2025
Date of Review:	4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_NEW_USER_001	Verify credentials to create new user account	Enter valid new User Name and valid new Password	1. User does not have a previous login	1. Click "New User" Button 2. Enter User Name — <Valid Username> 3. Enter Password — <Valid Password> 4. Click "Create User"		Successful user creation	login is displayed	login is displayed	pass
TC_NEW_USER_002	Verify credentials to create new user account	Enter invalid new User Name and valid new Password	1. User does not have a previous login	1. Click "New User" Button 2. Enter User Name — <Invalid Username> 3. Enter Password — <Valid Password> 4. Click "Create User"		A message showing "the username you input is invalid"	Invalid Credentials is shown	Invalid Credentials is shown	pass
TC_NEW_USER_003	Verify credentials to create new user account	Enter valid new User Name and invalid new Password	1. User does not have a previous login	1. Click "New User" Button 2. Enter User Name — <Valid Username> 3. Enter Password — <Invalid Password> 4. Click "Create User"		A message showing "the password you entered is invlaid"	Invalid Credentials is shown	Invalid Credentials is shown	pass
TC_NEW_USER_004	Verify credentials to create new user account	Enter invalid new User Name and invalid new Password	1. User does not have a previous login	1. Click "New User" Button 2. Enter User Name — <Invalid Username> 3. Enter Password — <Invalid Password> 4. Click "Create User"		A message showing "the username and password you entered is invalid"	Invalid Credentials is shown	Invalid Credentials is shown	pass

Project Name:	Medicine Adherance System	
Module Name:	1.2 Authenticate User / User Log In	
Reference Document:	CMSC 355 Requirments (Use Cases)	
Created By:	Inayah O'Neil	
Date of Creation:	3/18/25	
Date of Review:		4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_LOGIN_001	Verify credentials for user to log in to software	Enter valid User Name and valid Password	1. User has already established a valid login	1. Click "Login" Button 2. Enter User Name 3. Enter Password 4. Click "Create Login"	 <Valid Username> <Valid Password> 	Successful user creation	Dashboard is shown	Dashboard is shown	pass
TC_LOGIN_002	Verify credentials for user to log in to software	Enter invalid User Name and valid Password	1. User has already established a valid login	1. Click "Login" Button 2. Enter User Name 3. Enter Password 4. Click "Create Login"	 <Invalid Username> <Valid Password> 	A message showing "the username you input is invalid"	Invalid Credentials iis shown	Invalid Credentials iis shown	pass
TC_LOGIN_003	Verify credentials for user to log in to software	Enter valid User Name and invalid Password	1. User has already established a valid login	1. Click "Login" Button 2. Enter User Name 3. Enter Password 4. Click "Create Login"	 <Valid Username> <Invalid Password> 	A message showing "the password you entered is invlaid"	Invalid Credentials iis shown	Invalid Credentials iis shown	pass
TC_LOGIN_004	Verify credentials for user to log in to software	Enter invalid User Name and invalid Password	1. User has already established a valid login	1. Click "Login" Button 2. Enter User Name 3. Enter Password 4. Click "Create Login"	 <Invalid Username> <Invalid Password> 	A message showing "the username and password you entered is invalid"	Invalid Credentials iis shown	Invalid Credentials iis shown	pass

Project Name:	Medicine Adherance System		
Module Name:	Doctor Name		
Reference Document:	CMSC 355 Requirments (Use Cases)		
Created By:	Miya Collingwood		
Date of Creation:			3/26/25
Date of Review:			4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_DOC_001	Verify Doctor lookup with a valid doctor.	Enter valid first and last name	Doctor exists in the system	1. Enter first name 2. Enter last name 3. Submit input	First Name: Miya Last Name: C	Confirmation message: "Doctor found." Menu options appear	User can proceed to menu options.	Not able to implement	fail
TC_DOC_002	Verify doctor lookup with an invalid doctor	Doctor doesn't exist in system.	Doctor does not exist in the system	1. Enter first name 2. Enter last name 3. Submit input	First Name: Walter Last Name: White	Message: "Doctor not found in the system."	User cannot proceed further	Not able to implement	fail
TC_DOC_003	Verify medication retrieval for a valid doctor	Select "View medications" from the menu	Doctor exists in the system and has medications	1. Enter valid doctor name 2. Select option "1. View medications"	Option: 1	List of medications is displayed	Medications associated with the doctor are shown	Not able to implement	fail
TC_DOC_004	Verify adding a new Rx number	Select "Enter a new Rx number" from the menu	Doctor exists in the system	name 2. Select option "2. Enter a new Rx number" 3. Input Rx number	Option: 2 Rx Number: 123456	Message: "Rx number added successfully."	shows Rx	Shows Rx	pass

Project Name:	Medicine Adherance System
Module Name:	Perscription Number Verification
Reference Document:	CMSC 355 Requirments (Use Cases)
Created By:	Miya Collingwood
Date of Creation:	3/26/25
Date of Review:	4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_RX_001	Verify adding a new p	Enter valid Rx	RxStore is empty or	1. Select option "1. Add a 2. Enter Rx number 3. Enter medication name 4. Enter times to take med	Rx Number: 123456 Medication Name: Ibup Times: Morning, Eveni	Confirmation message:	Rx number and c	Rx number and c	pass
TC_RX_002	Verify retrieving a exis	Enter an Rx nu	Rx number is in RxS	1. Select option "2. Retrie 2. Enter invalid Rx numbe	Rx Number: 123456	Medication name and ti	User sees prescr	User sees prescr	pass
TC_RX_003	Verify retrieving a nor	Enter an Rx nu	Rx number is not in	1. Select option "2. Retrie 2. Enter invalid Rx numbe	Rx Number: 9999899	Error message: "Rx nur	User is prompted	Medication is not	fail
TC_RX_004	Verify handling of inva	Enter an invali	System is running	1. Enter invalid menu cho	Option: 99	Error message: "Invalid	User is prompted	Medication is not	fail

Project Name:	Medicine Adherance System
Module Name:	Validate Medication Entry
Reference Document:	CMSC 355 Requirments (Use Cases)
Created By:	Shawn Watson
Date of Creation:	3/26/25
Date of Review:	4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_VALMED_001	Verify the medicine that user input	User inputs the correct name of the medicine	1. User is logging the new medicince that is being taken	1. User clicks the bar to type in the medicine 2. Enter Medication 3. Click "Input Medicine"	<Valid Medicine>	Sucessful input of medicine	Confirmation message sent back to user "Medicine Logged"	Medication is stored	pass
TC_VALMED_002	Verify the medicine that user input	Use inputs the incorrect name of the medicine	1. User is logging the new medicince that is being taken	1. User clicks the bar to type in the medicine 2. Enter Medication 3. Click "Input Medicine"	<Invaild Medicine>	A message showing "the medicine input is incorrect, please try again"		Medication is not stores	fail

Project Name:	Medicine Adherance System
Module Name:	Recorded Medication Taken
Reference Document:	CMSC 355 Requirments (Use Cases)
Created By:	Shawn Watson
Date of Creation:	3/26/2025
Date of Review:	4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_RECMED_001	Verify the time the user has taken the medicine	Enter vaild time that medication has been taken	User is entering a new time	1. Click "Timestamp" Button 2. Enter Time medication taken, 3. Click log time	<Vaild Time>	Successful Time Log, stored as positive in medication log		Medication has been properly logged	pass
TC_RECMED_002	Verify the time the user has taken the medicine	Enter invaild time that medication has been taken	User is entering a new time	1. Click "Timestamp" Button 2. Enter Time medication taken, 3. Click log time	<Invaild Time>	Successful Time Log, stored as negative in medication log	User is time recorded gets put down as not compliant	Error message	pass

Project Name:	Medicine Adherance System	
Module Name:	4.3/4.5 Send Medication Reminder	
Reference Document:	CMSC 355 Requirments (Use Cases)	
Created By:	Cara Routh	
Date of Creation:	3/25/25	
Date of Review:	4/26/25	

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_4.3_4.5_001	Verify medication reminder sent and correctly handles a missed response.	Successful reminder sent and patient responds.	Patient has a medication schedule and system has contact details	1. System retrieves scheduled reminder time 2. Reminder message is generated 3. System selects the patients preffered contact method 4. The system sends the reminder 5. The systems logs the reminder as "Sent". 6. System wait for patients response within the decided timeframe. 7. System logs the response in the medicine log.	Patient ID : 12345 Contact Method : App Notification Medication : Xanax Scheduled Time : 8:00 am Response : Taken	System logs the response as taken.	The system completes tracking for this reminder.	System logs the response as taken.	pass
TC_4.3_4.5_002	Verify that the system retries sending the reminder if the patient does not respond.	Reminder is sent but patient does not respond (their dose was missed)	Patient has a medication schedule and patient doesn't respond to first reminder.	1. Send reminder. 2. The system waits for the patient's response within a set time. 3. No response is recieved 4. The system incremnets the missed count. 5. If retires are available the system resends the reminder. 6. If the retry limit is reached the system lets the caregiver know.	Patient ID : 24680 Medication : Insulin Scheduled Time : 9:00 am Retry Limit : 2	The system will resend the reminder if within the retry limit, and if the retry limit is reached, the system alerts the caregiver.	Either logs a response, retires, or escalates the situation based on patients response.	system holds reminder until notified	fail
TC_4.3_4.5_003	Verify that the system is able to handle a failure to send a reminer and retries.	Reminder failed to send because of a network issue.	Patient has a medication schedule and system attempts to send a reminder but fails.	1. Send reminder 2. Failure to send due to network issues 3. Retries sending after a set interval 4. If the retries also fail, the system logs an error	Patient ID : 56789 Medication : Percocet Failure Cause : Network Cause	The system retires sending the reminder and if all the retries fail then admin is alerted.	Either reminder is succesfully sent or an error is logged.	system holds reminder until notified	fail

TC_4.3_4.5_004	Verify that the system correctly updates records if the patient responds late	Patient responds late after a missed reminder	Reminder has ben sent, patient did not respond within the expected timeframe, the system has already marked the dose as missed.	1. Send reminder 2. Patient does not respond within set time 3. Reminder is marked as missed. 4. Patient responds after the retry limit is reached. 5. System updates the record to reflect the late response.	Patient ID : 67139 Medication : Penecilin Response Time : 1 hour late	System updates the medicine log with the late response. Any caregiver alert is aknowledged.	System ensures the response is logged, even if it is late.	system holds the acknowledgement	fail
TC_4.3_4.5_005	Verify that the system detects invalid contact details and alerts an admin.	Invalid Patient Contact Information	Patients contact information is incorrect or missing, and the system attempts to send a reminder.	1. System retrieves the schedules reminder time 2. System generates a reminder . 3. System attempts to send the reminder 4. System detects an invalid phone number or email. 5. System logs an error and alerts admin.	Patient ID : 90603 Contact Method : Email (incorrect or invalid)	Reminder is not sent and logs an error, system alerts admin to update patient details.	Admin is propmted to update patients contact information.	system holds incorrect contact info	fail

Project Name:	Medicine Adherance System
Module Name:	4.4 Track Response
Reference Document:	CMSC 355 Requirments (Use Cases)
Created By:	Cara Routh
Date of Creation:	3/26/25
Date of Review:	4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_4.4_001	Verify that the system logs the pateints response correctly when they confirm the medication has been taken.	Successful Response Logging	Patient recieved a reminder and the patient has a valid method to respond.	1. System waits for the patients response. 2. The patient marks the medication as taken 3. System logs the response in the Medication Log 4. System marks the reminder as completed.	Patient ID : 12131 Medication : Aspirin Response : Taken	System records the response as "Taken and updates the log.	Reminder is marked as completed.	System logs response	pass
TC_4.4_002	Verify that the system correctly traks when a dose is missed.	Patient Reports Skipping Their Dose	Patient recieved the reminder and choses "skipped" as a response.	1. Patient selects "skipped" and submits their response. 2. System logs response in the Medicine Log 3. System marks the reminder as "skipped" and asks why patient skipped their dose	Patient ID : 67890 Medication : Zoloft Response : Skipped Reason : Forgot	Records the skipped dose and the reason why it was skipped.	The reminder is marked as skipped.	System logs response	fail
TC_4.4_003	Verify that the system updates the status if no response is recieved.	No Response Receieved Within Alloted Time	Reminder was sent and the patient did not respond within the allowed time.	1. Waits for response 2. Response time limit expires. 3. System marks the reminder as "Missed" and updates the medicine log accordingly.	Patient ID : 23497 Medication : Lexapro Reponse Time Limit : 30 Minutes	Marks the reminder as missed and updates the log.	System may alert caregiver if desired	system logs response, cannot send notification	fail
TC_4.4_004	Verify that the system detects and handles an invalid response.	Invalid Response Received	The patient responds to the reminder within an invalid response.	1. Patient sends an invalid response to the reminder 2. System setects an invalid response 3. System sends an error message and asks for a valid response.	Patient ID : 69696 Medication : Adderall Repsonse : who dis? (invalid)	Rejects the invalid repsonse and asks for a valid one.	Makes sure that only valid responses are logged.	System holds all input	fail

TC_4.4_005	Verify that a late reponse is logged correctly.	Late Response After Missed Reminder	The dose was already marked as missed and then the patient responds after the allowed time.	1. Dose is logged as missed 2. Patient late selects "Taken" 3. Records are updated to reflect that the dose was taken late.	Patient ID : 98765 Medication : Amoxicilin Response Time : 1 hour later that expected	The records are updated as Taken (late).	Correct status is logged.	late acknowledgement is noted	pass

Project Name:	Medicine Adherance System
Module Name:	5.0 Medicine Report
Reference Document:	CMSC 355 Requirments (Use Cases)
Created By:	Zoya Akhtar
Date of Creation:	3/20/24
Date of Review:	4/26/25

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDTION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
TC_MEDICINE_REPORT_001	Verify report generation for authenticated patient	Patient accesses medication report.	and authenticated | 2. Medication intake history is stored.	1. Click "Medical Report" | 2. System retrieves necessary data. | 3. System compiles report	Valid patient data with medication intake history	Report view/download screen shown		Report view/download screen shown	pass
TC_MEDICINE_REPORT_002	Verify report generation for authenticated doctor	accesses patient medication report.	in and authenticated. | 2. Patient data is available in system.	1. Click "Medical Report" | 2. Select Patient | 3. System retrieves and compiles data.	Valid doctor credentials and patient ID	Report with reccomendation section shown		Report view/download screen shown	fail
TC_MEDICINE_REPORT_003	Identify if data is missing and handle missing patient data error.	generate report with missing intake history.	1. Click "Medical Report" | 2. System attempts data retrieval	Missing medication data.	Missing medication data.	User redirected to dashboard to retry option		Report view/download screen shown	fail
TC_MEDICINE_REPORT_004	Handle unauthenticated user access attempt.	Unauthorized user tries to access report.	1. Click "Medical Report"	No login session	No login session	Login screen shown		Report view/download screen shown	fail
TC_MEDICINE_REPORT_005	Verify error message when system fails to compile data	System crash or error during report generation.	1. Click "Medical Report | 2. System error occurs	Simulated sytem error	Simulated sytem error	User remains on same page with error message		Report view/download screen shown	fail
TC_MEDICINE_REPORT_006	Verify printed and/or downloaded report contents.	generated report contains correct data.	Report" | 2. Click "Download" or "Print" | 3. Open report.	Sample report PDF.	Sample report PDF.	File downloaded or printed successfully		Report view/download screen shown	fail