

Test Case Planning

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Use Case 1 - <<Alert User to Take Medication>>

Test Case ID	TC14 - Successfully Alert User
Test Objective	The system notifies the user to take their medication
Preconditions	The application is actively open, the user is logged into a valid account, and user already has an existing prescription
Test steps	<ol style="list-style-type: none">1. User receives a notification pop up displaying the following:<ol style="list-style-type: none">a. A reminder to take their medication<ol style="list-style-type: none">i. "Please take your medication!"b. Any relevant information pertaining to the medication<ol style="list-style-type: none">i. Name: Advilii. Dosage: 80mgiii. Expiration Date: 12/24/2025c. "Medication Taken" Optiond. "View Medication Information" Option
Input Values	None
Expected results	An alert has been successfully pushed out to the user with all relevant information displayed.

Test Case ID	TC15 - Successfully Log Medication as Taken
Test Objective	User logs their medication as taken
Preconditions	Application is actively open, the user is logged into a valid account, the user has an existing prescription, and an alert to take their medication has popped up.
Test steps	<ol style="list-style-type: none"> 1. User receives a notification pop up displaying the following: <ol style="list-style-type: none"> a. A reminder to take their medication <ol style="list-style-type: none"> i. "Please take your medication!" b. Any relevant information pertaining to the medication <ol style="list-style-type: none"> i. Name: Advil ii. Dosage: 80mg iii. Expiration Date: 12/24/2025 c. "Medication Taken" Option d. "View Medication Information" Option 2. User selects the "Medication Taken" Option 3. System logs the medication as taken, and returns the user to the homescreen.
Input Values	None
Expected results	The medication is logged as taken, and the user is returned to the homescreen.

Test Case ID	TC16 - View Medication Information
Test Objective	User views their medication's information through a pop up alert
Preconditions	Application is actively open, the user is logged into a valid account, the user has an existing prescription, and an alert to take their medication has popped up.
Test steps	<ol style="list-style-type: none"> 4. User receives a notification pop up displaying the following: <ol style="list-style-type: none"> a. A reminder to take their medication <ol style="list-style-type: none"> i. "Please take your medication!" b. Any relevant information pertaining to the medication <ol style="list-style-type: none"> i. Name: Advil ii. Dosage: 80mg iii. Expiration Date: 12/24/2025 c. "Medication Taken" Option d. "View Medication Information" Option 5. User selects the "View Medication" Option <ol style="list-style-type: none"> a. User is redirected to the medication's informational window b. System displays the following information: <ol style="list-style-type: none"> i. Prescription Name: Advil ii. Name of Prescriber: Dr. Johnson iii. Date Issued: 11/05/2024 iv. Dosage: 80mg v. Time Between Doses: 8 hours vi. Prescription Expiration Date: 12/24/2025 vii. Prescription Side Effects: Nausea, Headache, Rash
Input Values	None
Expected results	User is redirected to the medication's informational window, causing the alert to disappear.

Use Case 2 - <<Maintain Prescription>>

Test Case ID	TC08 - Successfully Add Prescription
Test Objective	User is able to add a prescription
Preconditions	User is logged in to a valid account
Test steps	<ol style="list-style-type: none">1. User selects "Manage Prescriptions"2. User selects "Add Prescription" from the Prescriptions submenu3. User enters the following information into the respective fields:<ol style="list-style-type: none">a. Name of prescription: Amoxicillinb. Name of prescriber: Dr. Johnsonc. Date issued: 11/05/2024d. Dosage: 40mg or 40 (mg will be automatically appended)e. Time between doses: 8 hoursf. Prescription expiration date: 12/04/2024g. Prescription side effects: Nausea, Headache, Rash4. User selects "Done"
Input Values	Prescription name, prescriber name, date issued, dosage, time between doses, expiration date, side effects
Expected results	The prescription is added to the list of prescriptions for the user's account

Test Case ID	TC09 - Unsuccessfully Add Prescription
Test Objective	User is unable to add a prescription
Preconditions	No user is currently signed in when the option "Manage Prescriptions" is selected
Test steps	<ol style="list-style-type: none">1. User does not sign in2. User selects "Manage Prescriptions"
Input Values	N/A
Expected results	<ol style="list-style-type: none">1. Display a message to the user indicating that they are not currently signed in, and must be signed in to manage prescriptions2. User is ultimately sent back to the home screen after selecting "Okay"

Test Case ID	TC10 - Successfully Edit Prescription
Test Objective	User is able to alter a prescription's information
Preconditions	User is logged into a valid account and has an existing prescription
Test steps	<ol style="list-style-type: none"> 1. User selects "Manage Prescriptions" 2. User selects "Edit Prescriptions" from the Prescriptions submenu 3. User selects the desired prescription from the drop down menu containing a list of current prescriptions <ol style="list-style-type: none"> a. User selects "Amoxicillin" 4. User removes "40mg" from the Dosage field <ol style="list-style-type: none"> a. User enters "80mg" 5. User selects "Done"
Input Values	Dosage
Expected results	The prescription's information reflects the changes made

Test Case ID	TC11 - Unsuccessfully Edit Prescription
Test Objective	User is unable to alter a prescription's information
Preconditions	User is logged into a valid account but has no existing prescriptions
Test steps	<ol style="list-style-type: none"> 6. User selects "Manage Prescriptions" 7. User selects "Edit Prescriptions" from the Prescriptions submenu
Input Values	N/A
Expected results	<ol style="list-style-type: none"> 1. Display a pop up message informing the user that there are currently no prescriptions to edit 2. User selects "Okay" to return to the Prescriptions sub-menu

Test Case ID	TC12 - Successfully Delete Prescription
Test Objective	User is able to delete an existing prescription
Preconditions	User is logged into a valid account and has an existing prescription in the system
Test steps	<ol style="list-style-type: none"> 1. User selects "Manage Prescriptions" and is sent to the Prescriptions submenu 2. User selects "Delete Prescription" 3. User selects the desired prescription to delete from the dropdown menu <ol style="list-style-type: none"> a. User selects "Amoxicillin" 4. User selects "Delete"
Input Values	No input values
Expected results	Prescription is no longer listed anywhere in the user's account

Test Case ID	TC13 - Unsuccessfully Delete Prescription
Test Objective	User is unable to delete a prescription
Preconditions	User is logged into a valid account but has no existing prescriptions to reference
Test steps	<ol style="list-style-type: none"> 5. User selects "Manage Prescriptions" and is sent to the Prescriptions submenu 6. User selects "Delete Prescription"
Input Values	No input values
Expected results	<ol style="list-style-type: none"> 1. Display a message to the user informing them that there are currently no prescriptions to delete 2. User selects "Cancel" in order to be returned to the Prescriptions submenu

Use Case 3 - <<Maintain User>>

Test Case ID	TC01 - Successful Account Creation
Test Objective	User is able to create a valid account
Preconditions	<ul style="list-style-type: none"> - Username does not match any pre-existing usernames within the user database - Valid email format is utilized - Password is valid (8 characters, both letters and numbers involved)
Test steps	<ol style="list-style-type: none"> 1. Select the "Sign Up" option 2. Enter all data fields <ol style="list-style-type: none"> a. First Name: Lily b. Last Name: Winsor c. Username: squishshr00m d. Password: fakePassword28 e. Email: fakeEmail@gmail.com f. Phone number: 999-999-9999 3. Hit "Create Account"
Input Values	First name, last name, username, password, email, phone number
Expected results	<ul style="list-style-type: none"> - New user is added to user database - User is redirected to homepage with their account information displayed

Test Case ID	TC02 - Invalid Account Creation Type I
Test Objective	User attempts to create an account using a duplicate username
Preconditions	<ul style="list-style-type: none"> - Username already exists - Valid email is inputted - Valid password is inputted
Test steps	<ol style="list-style-type: none"> 1. Click "Sign Up" option 2. Enter all data fields <ol style="list-style-type: none"> a. First Name: Lily b. Last Name: Winsor c. Username: squishshr00m d. Password: fakePassword20 e. Email: fakeEmail@gmail.com f. Phone number: 999-999-9999 3. Hit "Create Account"
Input Values	First name, last name, duplicate username, password, email, phone number
Expected results	<ul style="list-style-type: none"> - Display an error message to the user stating that the username already exists - User is not redirected to the homepage

Test Case ID	TC03 - Invalid Account Creation Type II
Test Objective	User attempts to create an account using an invalid email
Preconditions	<ul style="list-style-type: none"> - Username is available - Password is valid - Email does not assume proper formatting <ul style="list-style-type: none"> - Ex: XXX@XXX.XXX - First XXX must be at least one character in length <ul style="list-style-type: none"> - Must be followed by an @ symbol - Second XXX must be at least one character in length <ul style="list-style-type: none"> - Must be followed by a period - Third XXX must at least one character in length
Test steps	<ol style="list-style-type: none"> 1. Click "Sign Up" option 2. Enter all data fields <ol style="list-style-type: none"> a. Ex One: <ol style="list-style-type: none"> i. First Name: Lily ii. Last Name: Winsor iii. Username: squishshroom iv. Password: fakePassword28 v. Email: fakeEmail@gmail. vi. Phone Number: 999-999-9999 b. Ex Two:

	<ul style="list-style-type: none"> i. First Name: Lily ii. Last Name: Winsor iii. Username: squishshroom iv. Password: fakePassword28 v. Email: @gmail.com vi. Phone Number: 999-999-9999 <p>c. Ex Three:</p> <ul style="list-style-type: none"> i. First Name: Lily ii. Last Name: Winsor iii. Username: squishshroom iv. Password: fakePassword28 v. Email: fakeEmail@.com vi. Phone Number: 999-999-9999 <p>3. Hit "Create Account"</p>
Input Values	First name, last name, username, password, invalid email, phone number
Expected results	<ul style="list-style-type: none"> - Display an error message to the user stating that the entered email is invalid - User is not redirected to the homepage

Test Case ID	TC04 - Invalid Account Creation Type III
Test Objective	User attempts to create an account using an invalid password
Preconditions	<ul style="list-style-type: none"> - Username is available - Password is invalid <ul style="list-style-type: none"> - At least 8 characters in length - Contains both letters and numbers - Valid email is entered
Test steps	<ol style="list-style-type: none"> 1. Click "Sign Up" option 2. Enter all data fields <ol style="list-style-type: none"> a. Ex One: <ul style="list-style-type: none"> i. First Name: Lily ii. Last Name: Winsor iii. Username: squishshroom iv. Password: noNumbers v. Email: fakeEmail@gmail.com vi. Phone Number: 999-999-9999 b. Ex Two: <ul style="list-style-type: none"> i. First Name: Lily ii. Last Name: Winsor iii. Username: squishshroom iv. Password: 44592108 v. Email: fakeEmail@gmail.com vi. Phone Number: 999-999-9999

	c. Ex Three: <ul style="list-style-type: none"> i. First Name: Lily ii. Last Name: Winsor iii. Username: squishshroom iv. Password: smolb0i v. Email: fakeEmail@gmail.com vi. Phone Number: 999-999-9999 3. Hit "Create Account"
Input Values	First name, last name, username, invalid password, email, phone number
Expected results	<ul style="list-style-type: none"> - Display an error message to the user stating that the entered password is invalid and specify <i>why</i> - User is not redirected to the homepage

Test Case ID	TC05 - Valid Login
Test Objective	User is able to log in to an existing account
Preconditions	<ul style="list-style-type: none"> - Username links to a pre-existing user in the database - Password correctly corresponds to the pre-existing username
Test steps	<ol style="list-style-type: none"> 1. Click "Login" option 2. Input Username and Password <ul style="list-style-type: none"> a. Username: squishshr00m b. Password: fakePassword28 3. Click "Login"
Input Values	Pre-existing username and correct password
Expected results	<ul style="list-style-type: none"> - User is able to sign into their existing account - User is redirected to homepage with their account information displayed

Test Case ID	TC06 - Invalid Login Type I
Test Objective	User enters a username that does not correspond with a pre-existing account
Preconditions	Entered username does not already exist in the database
Test steps	<ol style="list-style-type: none"> 1. Click "Login" Option 2. Enter username: shr00m 3. Enter valid password: fakePassword28 4. Select "Login"
Input Values	Incorrect username, correct or incorrect password (neither case for the password will impact the outcome if the username is incorrect)
Expected results	<ul style="list-style-type: none"> - Display an error message to the user informing them that the entered username does not exist - User is not redirected to the homepage

Test Case ID	TC07 - Invalid Login Type II
Test Objective	User enters the incorrect password for their username
Preconditions	<ul style="list-style-type: none"> - Entered username already exists within the database - Password is incorrect
Test steps	<ol style="list-style-type: none"> 1. Click "Login" Option 2. Enter username: squishshr00m 3. Enter incorrect password: fakePassword20 4. Select "Login"
Input Values	Correct username, incorrect password
Expected results	<ul style="list-style-type: none"> - Display an error message to the user informing them that the entered password is incorrect - User is not redirected to the homepage