

# Test Case Planning

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## Use Case 1 - <<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"><li>1. User selects "Manage Prescriptions"</li><li>2. User selects "Add Prescription" from the Prescriptions submenu</li><li>3. User enters the following information into the respective fields:<ol style="list-style-type: none"><li>a. Name of prescription: Amoxicillin</li><li>b. Name of prescriber: Dr. Johnson</li><li>c. Date issued: 11/05/2024</li><li>d. Dosage: 40mg or 40 (mg will be automatically appended)</li><li>e. Time between doses: 8 hours</li><li>f. Prescription expiration date: 12/04/2024</li><li>g. Prescription side effects: Nausea, Headache, Rash</li></ol></li><li>4. User selects "Done"</li></ol>
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

<b>Test Case ID</b>	<b>TC09 - Unsuccessfully Add Prescription</b>
<b>Test Objective</b>	<b>User is unable to add a prescription</b>
<b>Preconditions</b>	No user is currently signed in when the option "Manage Prescriptions" is selected
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. User does not sign in</li> <li>2. User selects "Manage Prescriptions"</li> </ol>
<b>Input Values</b>	N/A
<b>Expected results</b>	<ol style="list-style-type: none"> <li>1. Display a message to the user indicating that they are not currently signed in, and must be signed in to manage prescriptions</li> <li>2. User is ultimately sent back to the home screen after selecting "Okay"</li> </ol>

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

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

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

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

## Use Case 2 - <<Maintain User>>

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

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

<b>Test Case ID</b>	<b>TC03 - Invalid Account Creation Type II</b>
<b>Test Objective</b>	<b>User attempts to create an account using an invalid email</b>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>- Username is available</li> <li>- Password is valid</li> <li>- Email does not assume proper formatting <ul style="list-style-type: none"> <li>- Ex: XXX@XXX.XXX</li> <li>- First XXX must be at least one character in length <ul style="list-style-type: none"> <li>- Must be followed by an @ symbol</li> </ul> </li> <li>- Second XXX must be at least one character in length <ul style="list-style-type: none"> <li>- Must be followed by a period</li> </ul> </li> <li>- Third XXX must at least one character in length</li> </ul> </li> </ul>
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. Click "Sign Up" option</li> <li>2. Enter all data fields <ol style="list-style-type: none"> <li>a. Ex One: <ol style="list-style-type: none"> <li>i. First Name: Lily</li> <li>ii. Last Name: Winsor</li> <li>iii. Username: squishshroom</li> <li>iv. Password: fakePassword28</li> <li>v. <b>Email: fakeEmail@gmail.</b></li> <li>vi. Phone Number: 999-999-9999</li> </ol> </li> <li>b. Ex Two: <ol style="list-style-type: none"> <li>i. First Name: Lily</li> <li>ii. Last Name: Winsor</li> <li>iii. Username: squishshroom</li> <li>iv. Password: fakePassword28</li> <li>v. <b>Email: @gmail.com</b></li> <li>vi. Phone Number: 999-999-9999</li> </ol> </li> <li>c. Ex Three: <ol style="list-style-type: none"> <li>i. First Name: Lily</li> <li>ii. Last Name: Winsor</li> <li>iii. Username: squishshroom</li> <li>iv. Password: fakePassword28</li> <li>v. <b>Email: fakeEmail@.com</b></li> <li>vi. Phone Number: 999-999-9999</li> </ol> </li> </ol> </li> <li>3. Hit "Create Account"</li> </ol>
<b>Input Values</b>	First name, last name, username, password, invalid email, phone number
<b>Expected results</b>	<ul style="list-style-type: none"> <li>- Display an error message to the user stating that the entered email is invalid</li> <li>- User is not redirected to the homepage</li> </ul>

<b>Test Case ID</b>	<b>TC04 - Invalid Account Creation Type III</b>
<b>Test Objective</b>	<b>User attempts to create an account using an invalid password</b>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>- Username is available</li> <li>- Password is invalid <ul style="list-style-type: none"> <li>- At least 8 characters in length</li> <li>- Contains both letters and numbers</li> </ul> </li> <li>- Valid email is entered</li> </ul>
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. Click "Sign Up" option</li> <li>2. Enter all data fields <ol style="list-style-type: none"> <li>a. Ex One: <ol style="list-style-type: none"> <li>i. First Name: Lily</li> <li>ii. Last Name: Winsor</li> <li>iii. Username: squishshroom</li> <li><b>iv. Password: noNumbers</b></li> <li>v. Email: fakeEmail@gmail.com</li> <li>vi. Phone Number: 999-999-9999</li> </ol> </li> <li>b. Ex Two: <ol style="list-style-type: none"> <li>i. First Name: Lily</li> <li>ii. Last Name: Winsor</li> <li>iii. Username: squishshroom</li> <li><b>iv. Password: 44592108</b></li> <li>v. Email: fakeEmail@gmail.com</li> <li>vi. Phone Number: 999-999-9999</li> </ol> </li> <li>c. Ex Three: <ol style="list-style-type: none"> <li>i. First Name: Lily</li> <li>ii. Last Name: Winsor</li> <li>iii. Username: squishshroom</li> <li><b>iv. Password: smolb0i</b></li> <li>v. Email: fakeEmail@gmail.com</li> <li>vi. Phone Number: 999-999-9999</li> </ol> </li> </ol> </li> <li>3. Hit "Create Account"</li> </ol>
<b>Input Values</b>	First name, last name, username, invalid password, email, phone number
<b>Expected results</b>	<ul style="list-style-type: none"> <li>- Display an error message to the user stating that the entered password is invalid and specify <i>why</i></li> <li>- User is not redirected to the homepage</li> </ul>

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

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

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