

# Test Case Planning

Group members	Trevor Corcoran Stella Castro Lily Winsor Ismail Jalil Tyler Ely Abigail Yohannes
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Link to Github: <https://github.com/lwinsor28/CMSC355-Medical-Adherence-Program/tree/main>

## 1. Use Case 2 - <<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"><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>
Test steps	<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 &amp; Last Name</li><li>b. Username</li><li>c. Password</li><li>d. Email</li><li>e. Phone number</li></ol></li><li>3. Hit "Create Account"</li></ol>
Input Values	First name, last name, username, password, email, phone number
Expected results	<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>

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"><li>- Username already exists</li><li>- Valid email is inputted</li><li>- Valid password is inputted</li></ul>
Test steps	<ol style="list-style-type: none"><li>1. Click "Sign Up" option</li><li>2. Enter all data fields</li></ol>

	3. Hit "Create Account"
<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 be three characters 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</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</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> </ul>

	- User is not redirected to the homepage
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<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 links to a pre-existing user in the database</li> </ul>
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. Click "Login" option</li> <li>2. Input Username and Password</li> <li>3. Click "Login"</li> </ol>
<b>Input Values</b>	Pre-existing username and 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>2. Enter incorrect username</li> <li>3. Enter valid password</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>- Username is valid and exists</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 valid username</li> <li>3. Enter incorrect password</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>

