

Test Case Planning

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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">- 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" option2. Enter all data fields<ol style="list-style-type: none">a. First Name: Lilyb. Last Name: Winsorc. Username: squishshr00md. Password: fakePassword28e. Email: fakeEmail@gmail.comf. Phone number: 999-999-99993. 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

	<ol style="list-style-type: none"> 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: <ol 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 c. Ex Three:

	<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 <ol 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