

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 and last name: Satoru Gojob. Username: thestr0ngestc. Password: hollow&purple1989d. Email: satorugojo@jjhs.edue. Phone number: 5551235673. 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 thestr0ngest already exists- Valid email is inputted- Valid password is inputted
Test steps	<ol style="list-style-type: none">1. Click "Sign Up" option2. Enter all data fields

	<ul style="list-style-type: none"> a. First and last name: Jane Doe b. Username: thestr0ngest c. Password: gymnastics35!! d. Email: janeDoe@gmail.com e. Phone number: 5553332222 <p>3. Hit "Create Account"</p>
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 be three characters 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: Satoru ii. Last Name: Gojo iii. Username: thestr0ngest iv. Password: hollow&purple1989 v. Email: satorugojo@jjhs.eduuuuu vi. Phone Number: 555-666-6666 b. Ex Two: <ol style="list-style-type: none"> i. First Name: Satoru ii. Last Name: Gojo iii. Username: thestr0ngest iv. Password: hollow&purple1989 v. Email: @jjhs.edu vi. Phone Number: 555-666-6666 c. Ex Three: <ol style="list-style-type: none"> i. First Name: Satoru ii. Last Name: Gojo

	iii. Username: thestr0ngest iv. Password: hollow&purple1989 v. Email: satorugojo@.edu vi. Phone Number: 555-666-6666 3. Hit "Create Account"
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"> Click "Sign Up" option Enter all data fields <ol style="list-style-type: none"> Ex One: <ol style="list-style-type: none"> First Name: Satoru Last Name: Gojo Username: thestr0ngest Password: noNumbers Email: satorugojo@jjhs.edu Phone Number: 555-666-6666 Ex Two: <ol style="list-style-type: none"> First Name: Satoru Last Name: Gojo Username: thestr0ngest Password: 4459210 Email: satorugojo@jjhs.edu Phone Number: 555-666-6666 Ex Three: <ol style="list-style-type: none"> First Name: Satoru Last Name: Gojo Username: thestr0ngest Password: smolb0i Email: satorugojo@jjhs.edu Phone Number: 555-666-6666 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
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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: thestr0ngest b. Password: hollow&purple1989 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: JohnDoe332 3. Enter valid password: football77!# 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"> - Username is valid and exists - Password is incorrect
Test steps	<ol style="list-style-type: none"> 1. Click "Login" Option 2. Enter valid username: thestr0ngest 3. Enter incorrect password: hollow&blue1999 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