Team Pants / Attire
Testing Plan

Overview:

As Attire is a graphical-interface based application, we will be employing recorded input testing to test the user level experience of the application. This testing will be broken down by each page of the application, with individual tests applying to individual controls (ie. buttons, links).

Where possible, we have designed our application to minimize the need for user-input validation. We have done this by utilizing elements built into xaml such as ComboBox which, for options such as location or clothing-preference, provides a drop-down menu of pre-listed options for the user to choose from. This prevents the user from inputting invalid information, and simplifies input validation, especially for fields such as location which might have many potential inputs and variations on such.

It should also be noted that many of the information fields are required to be completed when creating an account. An account cannot exist without information having been selected for fields such as 'location.' Therefore, there is no situation possible where the user can, for example, 'Apply Changes' on the settings page without a selection in a given field - which is why we have not tested for such situations.

In order to perform this type of user action testing, the user input (keystrokes, clicks, etc.) will be recorded and played back using a testing utility compatible with Visual Studio called Windows Application Driver, (specifically the UI Recorder Tool component) which will enable us to record a sequence of actions performed in the GUI and evaluate the result.

Settings Page Scenarios:

Location Change Applied:

1. User navigates to settings page
2. User changes 'Location' from any location to any other location using the provided ComboBox
3. User clicks 'Apply Changes'
4. The Home Page loads, and the data displayed should now represent the temperature data and corresponding recommendation for the new location

Location Change Not Applied:

5. User navigates to settings page

6. User changes ‘Location’ from any location to any other location using the provided ComboBox
7. User clicks ‘Back To Home Page’ without clicking ‘Apply Changes’
8. The Home Page loads, and the data displayed should not have changed from the data previously displayed

Clothing Preference Change

1. The current temperature is 20 degrees celsius, and the user’s ‘Clothing Preference’ is ‘Dress Moderately’ or warmer
2. User navigates to settings page
3. User selects a different (cooler) option from the ‘Clothing Preferences’ ComboBox
4. User clicks ‘Apply Changes’
5. The Home Page loads and the Attire recommendation displayed should change from pants to shorts

Temperature Scale Change:

1. User navigates to the settings page
2. User changes the selection in the ‘Celsius / Fahrenheit’ from Celsius to Fahrenheit (or vice versa)
3. User click’s ‘Apply Changes’
4. The Home Page loads, and the temperature information is now displayed in Fahrenheit (or vice versa).

Change Password:

1. User navigates to the settings page
2. User clicks on the ‘Change Password’ button
3. The ‘Forgot Password’ page loads

Log out:

1. User navigates to the settings page
2. User clicks the ‘Log Out’ button
3. The Log In page loads and the user’s account is no longer signed in

Back To Home Page:

1. User navigates to the settings page
2. User clicks the ‘Back To Home Page’ button
3. The Home Page loads

Home Page Scenarios:

Login Page Scenarios:

Forgot password link:
Valid usage:
User clicks “forgot password” hyperlink.
User is redirected to the forgot password page.

Invalid usage:
User right clicks “forgot password” hyperlink
Nothing happens.
User middle clicks “forgot password” hyperlink
Nothing happens.

Create account link:
Valid usage:
User clicks “create account” hyperlink.
User is redirected to the account creation page.

Invalid usage:
User right clicks “create account” hyperlink
Nothing happens.
User middle clicks “create account” hyperlink
Nothing happens.

Valid Logins:
Scenario 1: using username to login.
User enters “myusername” into username/email field.
User enters “mypassword” into password field.
User clicks login button.
Login is validated
User is forwarded to “Home page”.

Scenario 2: using email to login
User enters “myname@email.com” into username/email field.
User enters “mypassword” int password field.
User clicks login button.
Login is validated
User is forwarded to the homepage

Invalid Logins:
Scenario 1: unknown username
User enters “notRealUser” into username/email field.
User enters “mypassword” into password field.

User clicks login button.
Login is invalid.
Login page refresh and displays text saying “Invalid username/password”

Scenario 2: unknown email
User enters “notReal@email.com” into username/email field.
User enters “mypassword” into password field.
User clicks login button.
Login is invalid.
Login page refresh and displays text saying “Invalid username/password”

Scenario 3: invalid password
User enters “RealUser” into username/email field.
User enters “wrongPass” into password field.
User clicks login button.
Login is invalid.
Login page refresh and displays text saying “Incorrect password. If you forgot your password, click here” (where click here is a hyperlink to the forgot password page).

Scenario 4: empty username / space username
User enters “”/” “ into username/email field.
User enters “mypassword” into password field.
User clicks login button.
Login is invalid.
Login page refresh and displays text saying “You cannot have an empty username, please try again”

Scenario 5: empty password / space password
User enters “RealUser” into username/email field.
User enters “”/” “ into password field.
User clicks login button.
Login is invalid.
Login page refresh and displays text saying “Invalid username/password”

Scenario 6: empty username and password
User enters “” into username/email field.
User enters “” into password field.
User clicks login button.
Login is invalid.
Login page refresh and displays text saying “please enter username and password”

Scenario 7: special character username or password
User enters “$$_$$” into username/email field.
User enters “\(* . *)/” into password field.

User clicks login button.
Login is invalid.
Login page refresh and displays text saying “Invalid username/password”

Notes on invalid entries:
We dont want to give away too much information for the invalid login prompts as this could be a vulnerability to the user’s accounts. Instead we keep it basic and just prompt them to enter their username and password again.

Anandita - Create Account Page

Scenario-1: special characters for username and password

Valid case : Unique set of username is selected which doesn’t exist in database
User entered the email address to create an account and found that the user is new to the system and the email entered is not there in the system, so the user is prompted to the next column of choosing a password.
Invalid case : The user already had an account but still goes on creating an account page other than going on login. The user finds that the field says the account already exists and doesn’t allow to do anything next.

Valid case : the email address includes @ and a valid already existing mail platform’s url.
Invalid case : If the user enters the email address which doesn’t exist or enters something other than the email address
Like, xusernamegmail.com is an invalid case since it misses the @
123)$@gmail.com is invalid because no such username will exist.
Username@12334.com is invalid because there is no such mail platform.

Scenario 2: When the password is not according to the protocols

Brandon - Forecast / Forgot Password