Verification Testing (Are we building the product right?)

Testing Methods

Unit Testing through Visual Studio for unit-testing

Selenium IDE for macro-level/automated testing and unit testing

- We're primarliy using selenium for developing our test cases because it will make continuous integration for future releases easier. (making sure that future changes won't “break” the app)

-csUnit will be used for more exhaustive testing of very specific or extreme conditions

**Testing Plan**

Selenium IDE

Test 1: Registration

* Open the homepage
* Click on the register button
* Fill out the register fields with new data
  + case 0: put in no data
  + case 1: password and confirm password do not match
  + case 2: password is less than 8 characters
  + case 3: password is 8 characters
  + case 4: password is 9+ characters
  + case 5: email does not have valid format ([xxxxxx@yyy.zzz](mailto:xxxxxx@yyy.zzz))
  + case 6: email has valid format
  + case 7: iteratively fill each field pressing register each time
* Proceed to login
* Enter login credentials for new user
* Logout

Test 2: Login

* From the homepage click on the login link
* Enter login credentials
  + Case 1: success {user1, user1123}
  + Case 2: failure {user
* Check to make sure that it takes your to the shopping list view page by looking for the words ShoppingView on the page
* Logout

Test 3: Create a new List

* From the hompage click 'shopping list'
* Check that user is rerouted to login page
* From the shopping list view click the create list button
  + create list without selecting list type
  + create list without entering list name
  + create list without entering list name or list type
* Create the list with credentials {seleniumtest1,shoppinglist}
* Check to make sure that the new list on the shoppingview page

Test 4: Add Item to Shopping List

* From the homepage click on the Shopping page
  + Success
    - rerouted to login if not logged in
    - routed to favorites if logged in
  + Failure
    - routed to favorites page if not logged in
    - rerouted to login if logged in
* From the shopping list view click the add item button on the 'seleniumtest1' list
* select the category produce
* select orange
* select lettuce
* go back to category
* go to the shopping list display for seleniumtest1
* check that the two items are on the page
* check that the quantity matches the desired amount

Test 5: Add Item to Favorites List

* From the homepage click on the Favorites page
  + Success
    - rerouted to login if not logged in
    - routed to favorites if logged in
  + Failure
    - routed to favorites page if not logged in
    - rerouted to login if logged in
* From the shoppingview select list
* Click on the item to add to favorites list and add
* Go to the favorites list item display view-page
* Check that the item added to the favorites list was in fact added

Test 6: Notification Testing (might do this one in csUnit rather than Selenium)

* After login check to make sure that the last\_login notification is visible on a message box
* Verify that the date displayed is in fact the correct date

Validation Testing (Are we building the right product?)

- For validation testing we will be essentially comparing our product against our overall requirements to make sure that we are building the right product. We may also ask new users to use the project and ask them if the following requirements are

Requirements

* Each user is able to create a unique account
* Each user is able to login with their unique credentials
* Each user can create their own shopping list(s)
* The list contains quantities of each item
* Each user can keep track of their favorite items
* The interface is highly visual (all items have corresponding pictures etc).