**CS 1632 - DELIVERABLE 3: Web Testing with BDD**

**WiKirby.com: Kirby Wiki**

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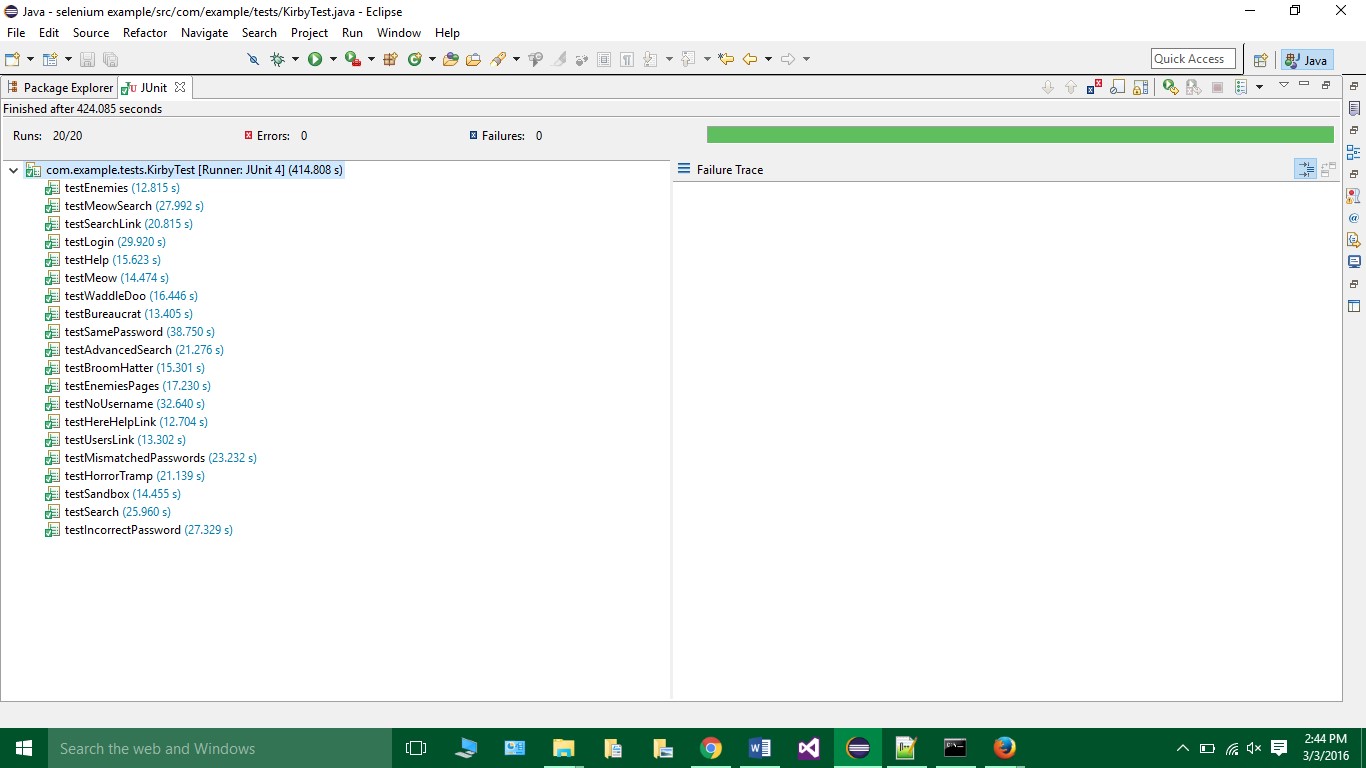
For deliverable three, we decided to test the website Wikirby.com. Wikirby.com is a wiki site for the fictional character Kirby. The site hosts information about Kirby and his universe with links to other wikis. We decided to test this site because a wiki site would be abounding with things to test, however the main reason is because KIRBY IS AWESOME! The layout of the website is fairly cluttered and has many links. The main page contains navigation on the left hand side with an assortment of content being placed in the center of the page. There is a link to create an account or log in in the upper right. There is a search bar located under the Wikirby banner. There is a footer section with various links to special pages. This design allows for many easy testable options. We decided to test the enemies page, the search bar, the login system, and the page-editing system. These allowed for different features to be tested that would be essential to the user’s overall experience while visiting the website. Users should expect to be able to properly navigate the site, search for information, create an account and/or log in, and edit pages when logged in.

The most difficult parts of this deliverable were deciding what to actually test. We had several revisions to the user stories throughout the deliverable. The difficulties we faced in particular were inconsistent passing or timing with tests, some tests passing with FirefoxDrivers and not HtmlUnitDrivers, getting acquainted with the commands, and thinking of and creating user stories and scenarios to test. When trying to find elements on the page by id or className, sometimes we would receive an error stating that the returned node was not a DOM element, or that the element did not exist. It was incredibly frustrating trying to find how to locate the elements, and at times, we had to modify which text we wanted to verify on the page, in order to ensure it would be found by our driver. We are not sure what causes this issue, and if it is specific to the design of our particular site or not.

We also had some difficulties with using the Selenium IDE itself. Selenium IDE was not always recognized by Firefox and we were told to install Selenium IDE after the IDE had already been previously installed. It seemed as if Selenium IDE would crash unexpectedly, as would Firefox. Further, Firefox performed rather slowly, which could have been a result of slow internet connection, or website, or simply the browser. As we had been warned, the Firefox driver is definitely slower than the HtmlUnitDriver, but the added features of getting to view the tests as they occur is helpful, and in the least, cool to watch. Hopefully, as we continue to work with selenium and testing we will learn to better handle testing websites.

Link to repository:

<https://github.com/dms163/CS1632-Deliverable-3>



User Story 1:

As a user I want to browse Kirby's different types of enemies

So that I can browse each enemies's specific articles.

Scenario 1-1:

Given that I'm on Wikirby main page,

when I try to click the "Enemies" link,

then I should see the page navigate to the Wikirby enemies page.

Scenario 1-2:

Given that I'm on the Wikirby "Enemies" page,

when I try to click "Horror Tramp" link,

then I should see the page navigate to the Wikirby "Horror Tramp" page.

Scenario 1-3:

Given that I'm on the Wikirby "Enemies" page,

when I try to click the "Broom Hatter" link,

then I should see the page navigate to the Wikirby "Broom Hatter" page.

Scenario 1-4:

Given that I'm on the Wikirby "Enemies" page,

when I try to click the "Waddle Doo" link,

then I should see the page navigate to the Wikirby "Waddle Doo" page.

Scenario 1-5:

Given that I'm on the Wikirby "Enemies" page,

when I try to click the "Shotzo" link,

then I should see the page navigate to the Wikirby "Shotzo" page.

User Story 2:

As a user,

I would like to log in to WiKirby,

so that I can access the site with member privileges.

Scenario 2-1:

Given on WiKirby home page,

and not logged in,

When I try to log in with an invalid user name,

Then I should be prompted to create an account

Scenario 2-2:

Given on WiKirby home page,

When I click on 'create account' and try to create an account with a user name matching the password,

Then an error should appear

Scenario 2-3:

Given on WiKirby home page,

When I click on 'create account' and try to create an account with the two lines for password not matching,

Then an error should appear

Scenario 2-4:

Given on WiKirby home page,

When I click on 'create account' and try to create an account without a user name,

Then an error should appear

Scenario 2-5:

Given on WiKirby home page,

and not logged in,

When I try to log in with a valid user name and incorrect password,

Then I should get a login error

User Story 3:

As a user,

I would like to search WiKirby,

so that I can look up specific pages that I am interested in viewing.

Scenario 3-1:

Given on WiKirby home page,

When I click on the Search link near the top of the page,

Then I should be brought to the Search page

Scenario 3-2:

Given on WiKirby home page,

When I click on the Search link near the top of the page

and then the 'Advanced' option,

and select 'Check All'

Then the 'Help' box should be checked

Scenario 3-3:

Given on WiKirby home page,

When I click on the Search link and then the Search button,

Then I will stay on the same Search page

Scenario 3-4:

Given on WiKirby Search page,

When I type "meow" into the search box and click search,

Then result info should exist

Scenario 3-5:

Given on WiKirby Search page,

When I type "meow" into the search box

and select Advanced,

and uncheck 'main' and check 'User talk'

Then "No results matching the query" should be displayed

User Story 4:

As a user,

I would like to learn how to edit pages on WiKirby,

so that I can contribute to the Wiki.

Scenario 4-1:

Given on WiKirby home page,

and not logged in,

When I click on the Sandbox link,

and try to edit a page,

Then permission should be denied

Scenario 4-2:

Given on WiKirby Sandbox page,

When I click on the Users link,

Then I should see a "Bureaucrat" link

Scenario 4-3:

Given on WiKirby Users page,

When I click on the Bureaucrat link,

Then I should see the Bureaucrat page, with the term's definition

Scenario 4-4:

Given on WiKirby Sandbox page,

When I click on the "help guide" link,

and then click on the "Basic Editing" link,

Then I should see

Scenario 4-5:

Given on WiKirby Help page,

When I click on the link that says "here",

Then I should see "Help talk: Contents"