Hoodpopper

Zhuoqun Wang

zhw59@pitt.edu

IS2545 - DELIVERABLE 3:

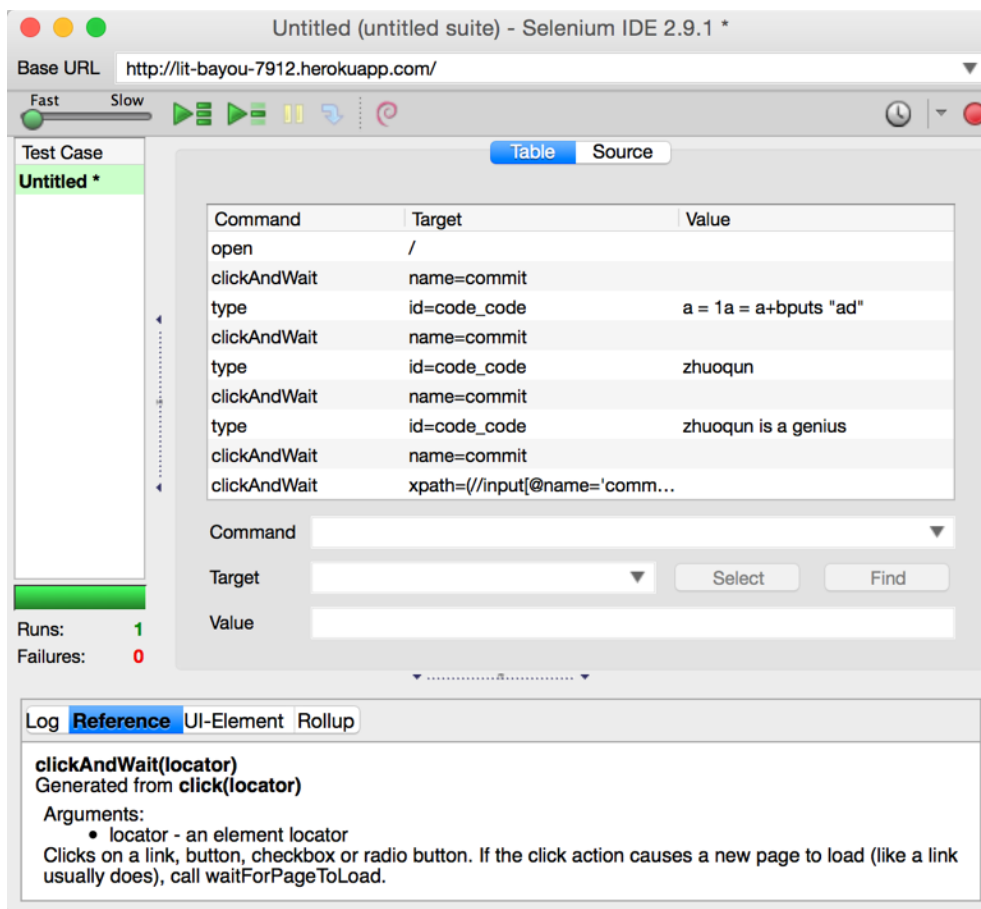**Web Testing with BDD**

Summary

This project requires me to install Selenium to test a Ruby compilation visualization, Hoodpopper. It took me some time to learn methods Selenium offers. Finally I learnt to use findElement() to locate the buttons and the area where I input Ruby code, and use click() to submit my Ruby code. What's more, to locate the buttons was also an issue because they are all named "commit". By using Selenium IDE, I noticed that By.name("xxx") is just to find the first xxx("xxx" is the parameter I set for the By method.) if there are more than one xxx in html. The second xxx is xxx[2], and the third one is xxx[3] by analogy. Meanwhile I picked up how to use xpath to locate a particular element.

No special steps are needed to get my tests running when Selenium have been already installed and been added on the project as external JAR(or added in maven).
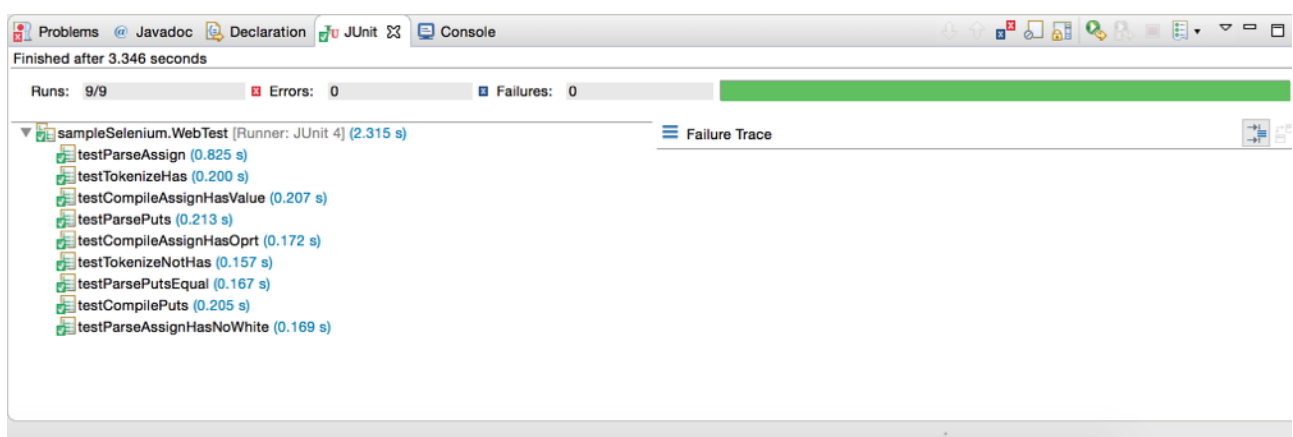
My github url is https://github.com/reynoldcn/QA_Summer2016.git. The source code for this deliverable is in https://github.com/reynoldcn/QA_Summer2016/blob/master/src/deliverable3/WebTest.java

Screenshots

Selenium IDE

Running Result

User stories and Scenarios

```
/**
 * 1.
 * As a user/Ruby programmer,
 * I would like to tokenize my Ruby code,
 * So that I can know what the result is after tokenized
 * @author Zhuoqun Wang
 *
 */
1.1
// Given that my code is "a = 1"
// When I click Tokenize button
// Then I should see that it contains the tokens
// "on_ident", "on_sp", "on_op", "on_int"
1.2
// Given that my code is "a=b"
// When I click Tokenize button
// Then I should NOT see that it contains
// "on_int" and "on_sp"
/**
 * 2.
 * As a user/Ruby programmer,
 * I would like to parse my Ruby code,
 * So that I can know what the result is after parsed
 * @author Zhuoqun Wang
 *
 */
2.1
// Given that my code is "a = 1+2"
// When I click Parse button
// Then I should see that it contains
// "a", "1", and "1"
2.2
// Given that my code is "a = 1"
// When I click Parse button
// Then I should NOT see that it contains Whitespace
// like "on_dent", "on_int" and "="
2.3
// Given that my code is "puts 'Zhuoqun is a genius '"
// When I click Parse button
// Then I should see that it contains
// "puts", and "Zhuoqun is a genius"
2.4
// Given that my code is "puts 'a = 1'"
// When I click Parse button
// Then I should see that it contains
// "puts", and "a = 1"
/**
 * 3.
 * As a user/Ruby programmer,
 * I would like to compile my Ruby code,
 * So that I can know what the result is after compiled
 * @author Zhuoqun Wang
 *
 */
3.1
// Given that my code is "a = 1+2*1/2-1"
// When I click Parse button
// Then I should see that it contains
```

```
// "opt_plus", "opt_minus", "opt_div", "opt_mult"
3.2
// Given that my code is "a + b"
// When I click Parse button
// Then I should Not see that it contains
// "a", "b"
```