University of Pittsburgh

Testing Facebook with BDD

CS 1699 – Deliverable 3: Web Testing with BDD

John Abraham & Yibo Cui
Bill Laboon

3/3/2015

TABLE OF CONTENTS

1. SUMMARY:

Since Facebook is one of the popular websites in the world and has many cool features, we decided to test www.facebook.com. In this deliverable, we decided to test the sign up feature, sign in feature, notification feature and updating personal information feature.

We chose to test those features because they are the site's most notable features among many others. We tested the sign up feature to see if the site obeys some of their rules. For example using a less number of characters in the password than required when signing up, and signing up when leaving some information out. Another feature we tested was sign in. For the sign in feature we used five combinations of e-mail addresses and passwords to see if the site reacts to those credentials appropriately. We also tested the personal information feature where the user is free to add personal information to their new account , such as: a short bio, mobile number, address, etc. And we also tested the notifications feature to make sure all new changes to the user's profile are accounted for and the user is notified.

2. TESTING CONCERNS:

Before we started this deliverable, we thought the hard part wasn't going to be writing the tests, but setting up the environment. And it turned out that setting up the environment took us much longer than writing tests. With eclipse we set up the cucumber environment, and we also added the selenium and JUint libraries to the environment.
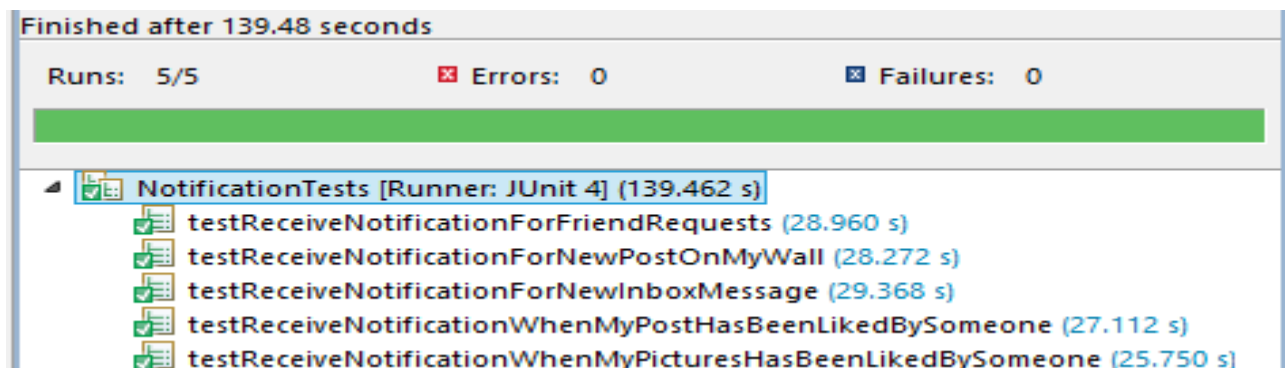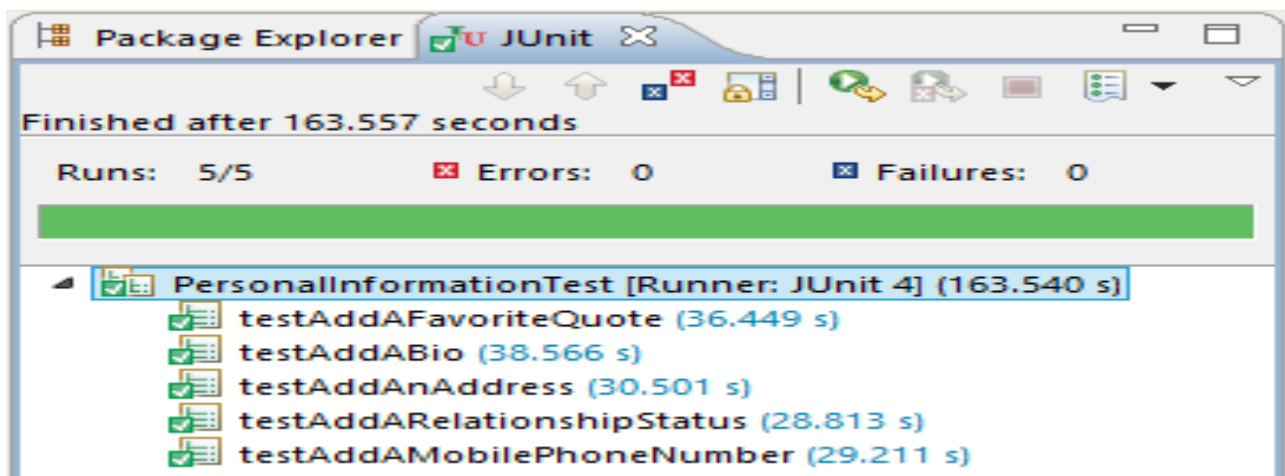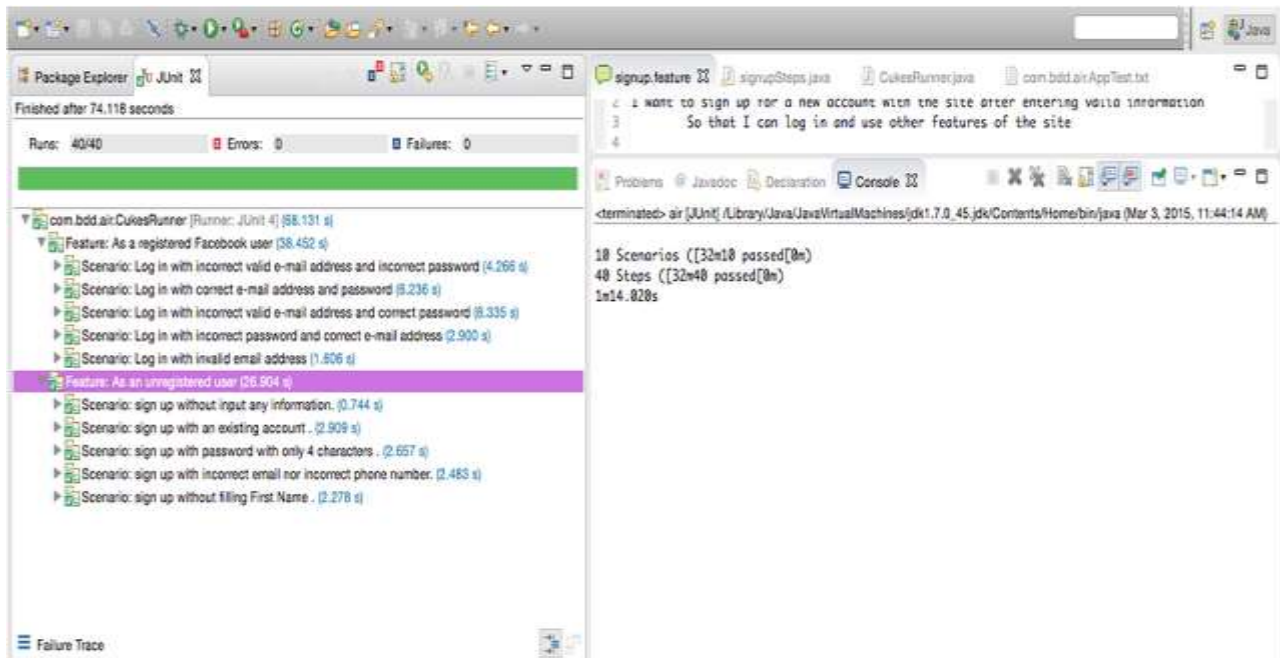
For this deliverable, we came up with four features with five scenarios for each giving a total of 25 scenarios. If this were a full test, we would have also needed to test other important features such as timeline, message box, groups, events, etc.

This deliverable took somewhat more time to complete than the other deliverables. One of the reasons being the amount of time it took to execute each test using the Selenium Webdeiver. For every test Selenium had to log us out close, close the window, open the window again, sign us in, do some more things in some cases, and observe the results.

Another challenge was converting the Gherkin code that we wrote for the user stories (features) and scenarios into testable JUnit Java code due to our lack of experience with Selenium. It took us some time to understand how to set up and a Webdriver and use regular expressions to search for things on the pages.

Since BDD is focused on building a good product one of the problems that we expect going forward is knowing what to test and how much code is sufficient to cover in order to be satisfied with our product.

3. SCREENSHOT OF TEST RESULTS:

4. USER STORIES AND SCENARIOS:

The Gherkin code for the user stories (features) and scnearios of this project can be found in the following repository under the "Deliverable3" directory: https://github.com/abrahamjj/CS1699

5. JUNIT TESTS:

The code for the JUnit tests of this project can be found in the following repository under the "Deliverable3" directory:
https://github.com/abrahamjj/CS1699