Testing Policy

Team Hackermen

TicketSalad

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Client:
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1 Testing Processes

Since we are adopting scrum methodology and it does not say much about the testing process, we decided to adopt a waterfall approach within our sprint.Our sprints usually last 2 weeks and within those two weeks we develop certain features of the system and once those features are completed, we then write tests for those features we developed. So we are essentially using a white-box testing method whereby we first write code for the system and then write the test cases once we have knowledge of the source code.

1.1 Functional Requirements Tested

- A user is able to register
- A user is able to login
- A user is able to claim on an event
- A user is notified if they won the ticket
- A user is able to view their profile
- A user is able to edit their details
- A user is able to search for events
- A user is able to logout

1.2 Non-Functional Requirements Tested

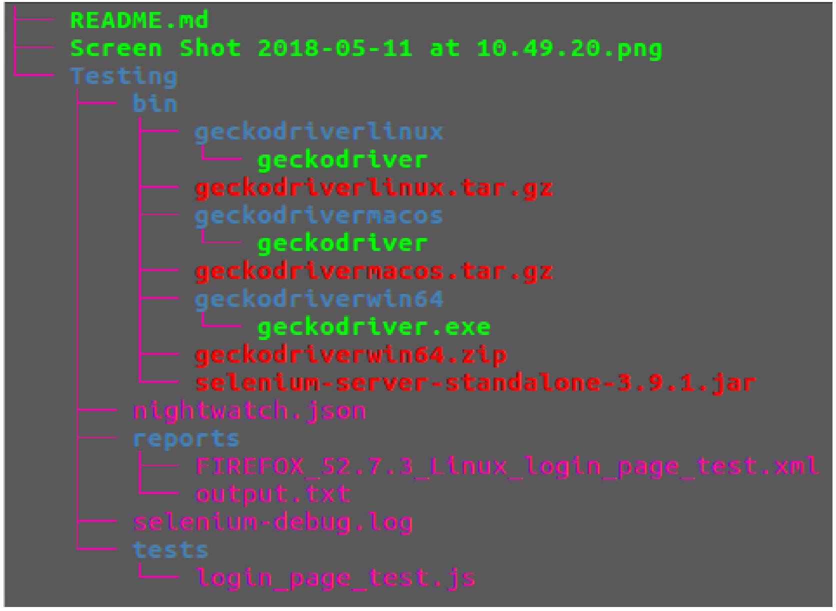
- The users password is encrypted
- The system responds in no more than 3 seconds
- The system displays the correct error messages
  - Invalid username entered
  - Invalid password entered
  - Required data not entered

2 Testing Tools

Nightwatch is an automated testing framework for web applications and websites, written in Node.js and using the W3C Web-driver API (formerly Selenium Web-driver).Nightwatch relies on ”nightwatch.json” as the configuration file to run test files, this json file is placed on the project’s root directory. The json file allows for the specification of configuration settings like test environments, test file paths, and selenium specific settings.The reason we chose to use nightwatch is beacuse it has a simple but powerful syntax which enables us to write tests very quickly, using languages like javascript and CSS or Xpath selectors. It also has a built in command-line test runner which can run tests either sequentially or in parallel. Lastly nightwatch allows for flexibility, what this means is that there is a flexible command and assertion framework which makes it easy to extend to implement our application specific commands and assertions.

3 Test Cases

Our test cases are located on the master branch in a folder called Testing.Below is a tree structure of where our test cases are located on git.



```
├── README.md
├── Screen Shot 2018-05-11 at 10.49.20.png
└── Testing
    ├── bin
    │   ├── geckodriverlinux
    │   │   └── geckodriver
    │   ├── geckodriverlinux.tar.gz
    │   ├── geckodrivermacos
    │   │   └── geckodriver
    │   ├── geckodrivermacos.tar.gz
    │   ├── geckodriverwin64
    │   │   └── geckodriver.exe
    │   ├── geckodriverwin64.zip
    │   └── selenium-server-standalone-3.9.1.jar
    ├── nightwatch.json
    ├── reports
    │   ├── FIREFOX_52.7.3_Linux_login_page_test.xml
    │   └── output.txt
    ├── selenium-debug.log
    └── tests
        └── login_page_test.js
```

4 History