



Selenium Group Project

Due Date: APR 15

- ➔ Using Selenium Web Driver perform end-to-end quality assurance automation tasks for a Web Application of your choice. For project, complete the tasks documented in this document with appropriate details [/charts/tables/graphs/images/logs]
- ➔ You must use the following technologies:
 - Java
 - Maven
 - Selenium IDE
 - Selenium Web Driver
 - Selenium Grid
 - GIT
 - Firebug
 - Junit
 - Jenkins
- ➔ Work in a group (**max**: 4 students)
- ➔ Present your project details in a group on the last day of the course

Tasks:

Application Overview:

- Provide a high-level business overview of the Application, what's the business purpose the application is serving.
- Define application modules/ key functionalities
- Define customers
- Define interfaces - upstream /downstream
- etc

Application Architecture:



- Document the Web Application Architecture in a Deployment diagram and its associated details
 - o Example:
 - Web Server
 - App Server
 - Database Server
 - Web Services
 - Mobile Devices
- List of protocols that application is using
- Define dependency application/modules

Test Plan:

- Prepare a test plan -
 - o What is the project scope?
 - o What's the tasks list?
 - o What's the plan timeline?
 - o Resource and task assignment?
 - o What's the milestone dates?
 - o Who are stakeholders?
 - o Who are approval?

Test data:

- Describe your test data – which you used to perform your automation testing

Test cases:

- Document list of test cases that you prepared and executed
- Show your test methods and approach to validate the data

Test Report:

- Prepare a test report



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- How many test cases did you run?
- How many tests are passed and how many tests are failed?
- Any special observations? Log files?

GIT storage:

- Show where you store your all test cases
- How did you manage the test versions?

Extra Credit:

- End to End execution from Jenkins or schedule job

PowerPoint Presentation:

- Put all the learnings/findings/work/challenges in a PowerPoint and present it in front of the class.

References:

Application Architecture:

https://www.google.com/search?q=application+architecture+diagram&rlz=1C1CHBF_enUS781US781&tbm=isch&source=iu&ictx=1&fir=ID7h2vlzmoocXM%253A%252CrnbijDgu5NORBM%252C&usg=__vfQuErtCjpyXdvf7Cb3w64yUfXo%3D&sa=X&ved=0ahUKEwj6rvLb6fXZAhVrplkKHax7B2wQ9QEIKzAA#imgsrc=8tOYFViZk3SgKM

Test Plan

<http://www.softwaretestinghelp.com/how-to-write-test-plan-document-software-testing-training-day3/>

Selenium Test Project example:

<https://www.slideshare.net/krkstar/selenium-testing-project-report>

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GIT commands:

<https://confluence.atlassian.com/bitbucketserver/basic-git-commands-776639767.html>

Selenium Web Form Elements:

<https://www.grazitti.com/resources/articles/automating-different-input-fields-using-selenium-webdriver/>

Selenium Grid:

https://www.seleniumhq.org/docs/07_selenium_grid.jsp

Selenium Jenkins Integration:

https://www.seleniumhq.org/docs/07_selenium_grid.jsp

Test NG + Web Driver + Jenkins:

<http://toolsqa.com/selenium-webdriver/testng-testcase/>

<https://www.guru99.com/maven-jenkins-with-selenium-complete-tutorial.html>

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