Selenium Web Test Tool Training Using Ruby Language

Discover the automating power of Selenium

Presented by:

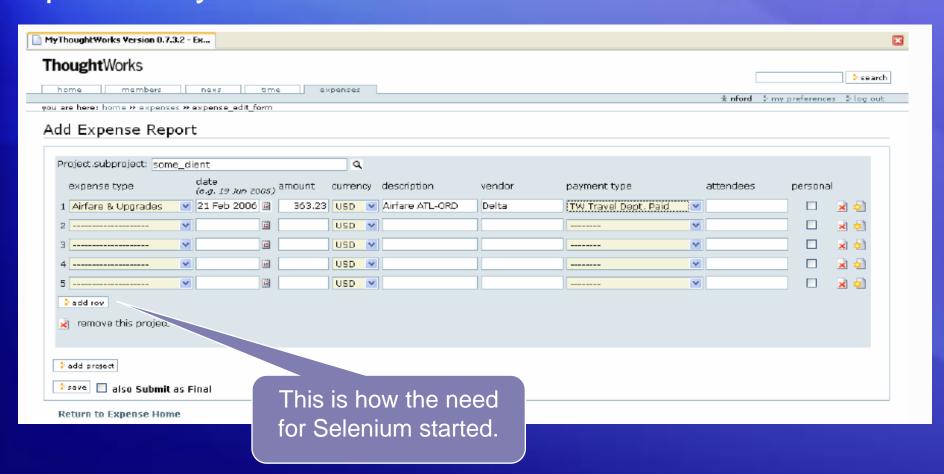## Kangeyan Passoubady (Kangs)

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Day

Selenium Overview
Selenium IDE Introduction

History of Selenium

- In 2004 invented by Jason R. Huggins and team.
- Original name is JavaScript Functional Tester [JSFT]
- Open source browser based integration test framework built originally by Thoughtworks
- 100% Javascript and HTML
- Designed to make test writing easy
- Ability to run whole suites of tests or individual tests
- Ability to step through individual tests
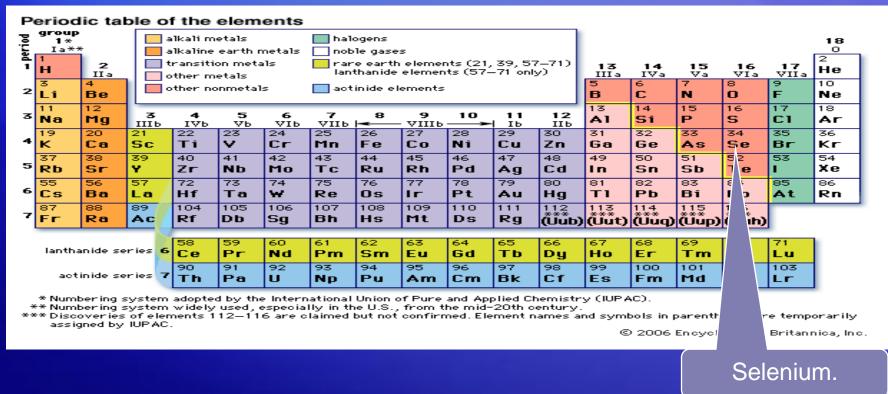- Cross browser – IE 6/7, Firefox .8+, Opera, Safari 2.0+

Story about Selenium

- Developed by ThoughtWorks to test the new time and expenses system

This is how the need for Selenium started.
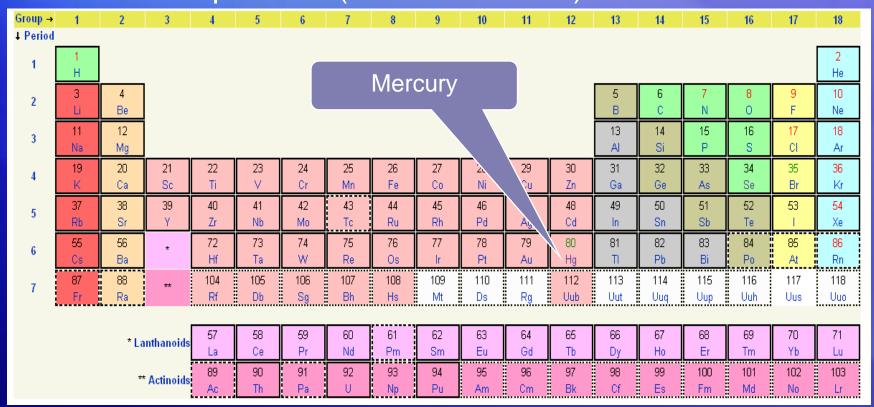
Story about Selenium

- Selenium is a chemical element with the atomic number 34, represented by the chemical symbol Se. It is a nonmetal, chemically related to sulfur and tellurium, and rarely occurs in its elemental state in nature.

Periodic table of the elements

Selenium.

- Selenium is used for treating Mercury Poisoning

Story about Selenium

- Mercury Quality Center (MQC) is developed by Mercury Interactive Corporation (Now HP owns it)

Mercury

- Professionals used MQC, QTP, WinRunner, LoadRunner and TestDirector

- Selenium users usually known at least any one of the Mercury Products

What is Selenium?

- Selenium is a portable software testing framework for web applications.

- The tests can be written as HTML tables or coded in a number of popular programming languages and can be run directly in most modern web browsers.

- Selenium can be deployed on Windows, Linux, and Macintosh.

- Selenium is used for UAT (User Acceptance Test)

Selenium Overview

- Selenium consists of
  - Selenium Core
  - Selenium RC
  - Selenium Grid
  - Selenium on Rails
  - Selenium IDE

Selenium IDE

- Selenium IDE (SIDE) is a complete Integrated Development Environment (IDE) for Selenium tests (previously known as Selenium Recorder).

- Firefox extension that allows recording and editing of tests

- Allows easier development of tests

- Can output Ruby for it's Ruby based (Application Programming Interface) API

Selenium IDE Features

- Record and playback

- Intelligent field selection will use IDs, names, or XPath as needed

- Auto complete for all common Selenium commands

- Walk through test cases and test suites.

- Debug and set breakpoints

- Save tests as HTML, Ruby scripts, or other formats

- Support for Selenium user-extensions.js file

- Option to automatically assert the title of every page

- Rollup common commands

Selenium IDE License

- Selenium was developed by a team of programmers and testers at ThoughtWorks.

- Selenium is open source software, released under the Apache 2.0 license and can be downloaded and used without charge.

- The Selenium Grid provides a hub allowing the running of multiple Selenium tests concurrently on any number of local or remote systems, thus minimizing test execution time.

Selenium Overview - Questions?

1. What are the Testing Tools you know?
2. Do you know any testing Tool which tests cross-browser compatibility?
3. Find any five testing tools. Provide brief description about the tool.
4. Find any 5 differences between the Functional Unit Test Tools you know and Selenium.
5. What is a Open Source Project?
6. What is a GPL (General Public License)?
7. What are the web development mark-up languages you know?
8. What are the scripting languages you know?