MID TERM EXAM

Id: 13662

NAME : S.M.SALMAN KHAN

SUBJECT: SOFTWARE VERIFICATION AND

VALIDATION

SUBMITTED TO: ZAIN SHAUKAT

Semester:6th BS(SE)

Selenium:

What is Selenium?

SELENIUM is a free (open-source) automated testing framework accustomed validate web applications across different browsers and platforms.. Testing done using the Selenium tool is sometimes said as Selenium Testing.

Selenium Software isn't just one tool but a collection of software, every bit catering to different testing needs of a corporation. Here is that the list of tools

Selenium Integrated Development Environment (IDE)
Selenium device (RC)
Web-Driver
Selenium Grid

Supporting Languages:

- java
- C#
- Python
- Ruby
- Perl
- Net

Who developed Selenium?

Since Selenium could be a collection of various tools, it had different developers further. Below are the key persons who made notable contributions to the Selenium Project

Introduction to Selenium

Primarily, Selenium was created by Jason Huggins in 2004. An engineer at Thought-Works, he was performing on an internet application that required frequent testing. Having realized that the repetitious Manual Testing of their application was becoming more and more inefficient, he created a JavaScript program that might automatically control the browser's actions. He named this program the "JavaScriptTestRunner."

Seeing potential during this idea to assist automate other web applications, he made JavaScript-Runner open-source which was later re-named as Selenium Core

Pros:

- Very easy to use and install.
- No programming experience is required through knowledge of html and DOM are needed.
- Has built in help and test result reporting module.
- Provides support for extension
- Can perform looping and conditional operations.
- Can support data driven testing.
- Faster execution than IDE.
- Communicate directly to the browser.
- No need for a separate component such as the RC server.
- Has matured and complete API.

Cons:

- Available only in fire-fox.
- Designed only to create prototypes of tests.
- No support for iterations and conditional operations.
- Must have programming knowledge.
- API contain redundant and confusing commands.
- Browser interactions is less realistic.
- Slower execution time than web-driver.
- Cannot readily support new browsers.
- Installation is more complicated than selenium IDE.
- Inconsistent results and users java-script.

Line number 10 caused an error because the 'contains' keyword is not supported by CSSSelector() in the webDriver.