Experiment - 6
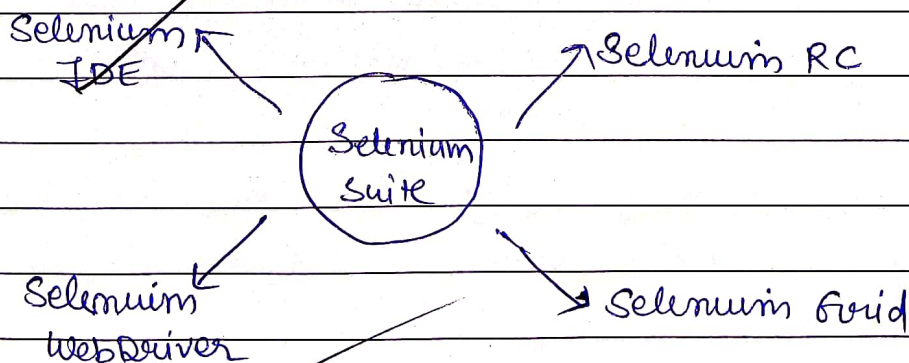
1] Introduction to selenium Testing Tools. Introduction to process of test sequences. Generate and validate using Selenium tool.

Selenium :→ It is a free (open-source) automated testing framework used to validate web applications across different browsers and platforms. We can use multiple programming language like Java, C#, Python etc. to create selenium Test scripts.

Testing done using the Selenium testing tool is usually referred to as Selenium Testing.

Selenium consist of a set of tools that facilitate the testing process.

Selenium IDE

Selenium RC

Selenium Suite

Selenium WebDriver

Selenium Grid

Selenium IDE:- It is an easy-to-use interface that records the user interactions to build automated test scripts. It is a Firefox or Crome Plugin., used as a prototyping tool. It was mainly developed to speed up the creation of automation scripts.

step 1 Installing JDE :-

① Open the Google browser
② Click on the menu in the top right corner.
③ Click on Add-ons in the drop-down box.
④ Clicks on Find more add-ons and type 'Selenium JDE".
⑤ Click on Add to Crome.

Step-2 :- Once Installed, the Selenium JDE icon appears on the top right corner of the browser. After clicking, welcome message appears.

Step-3 Create a new test for a new project. and provide a name

Step-4 Specify a valid URL.

Step-5 Click recording button. The recording begins once the browser navigates to this URL.
URL :- Ex www.facebook.com.

Once clicking, it will send you to the facebook page and start recording the user interaction.

Step-6 Save your work. by clicking on save icon.

Step-7 Playback :- You can play teste back in the Selenium automation testing JDE by selecting the test you wish to play and clicking on the play button.

Experiment -7

Selenium Testing of website Amazon.com and Flipkart. com for Online shopping and compare results.

Debugging Test Cases

steps1:- launch selenium IDE and open the test case you want to debug.
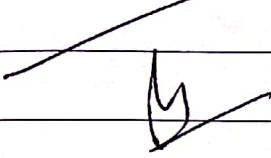
step-2 | Set a breakpoint :-
  ① Find the line where you want to set breakpoint.
  ② Click on the gutter next to the line number. This is the area on the left hand side of the code editor where line numbers are displayed.
  ③ A red dot will appear in the gutter, incidating that you have set a breakpoint.
  ④ Continue with your test case execution & when the breakpoint is reached, the test case will pause execution, and you will able to inspect the current state of the application.

step-3 | Run the test case in debug mode. Click on the "Run" button and select "Debug" from the dropdown.

step-4 | Inspect the variables and values :- Once the test case is paused at the breakpoint, you can inspect the values of variables by hovering over them or by openeing the "variables" in the right-hand side.

Step-5 Step through the test case :- Use the "step" button to step through the test case line by line. This will help you identify any issues that may be occurring at each step of the test case.

Step-6 Continue running the test case :- By clicking on the "Resume" button. The test case will continue running until it reaches the end or the next breakpoint.

Experiment-8

Selenuim testing of website irctc.co.in and Email.in. Ticket booking site for Railway reservation and Compare result-

Debugging Test Cases

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case is paused at the breakpoint, you can inspect the values of variables by hovering, over them or by opening "the variables" in the right - hand side.

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