Selenium with Python

Kethan Gudi

December 9, 2022

What it is

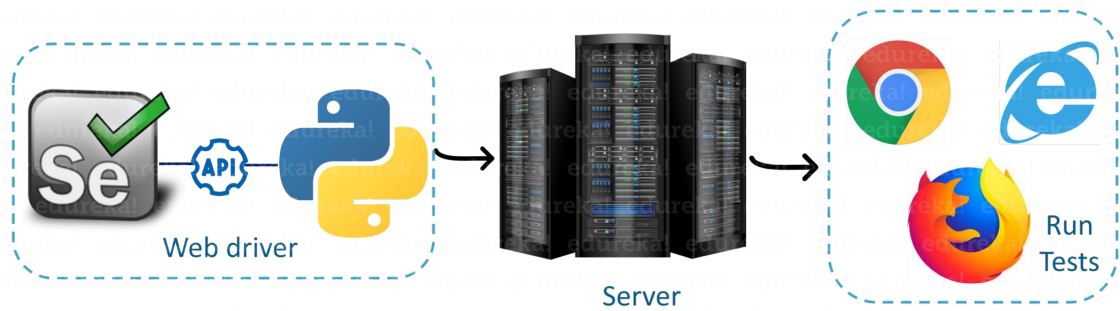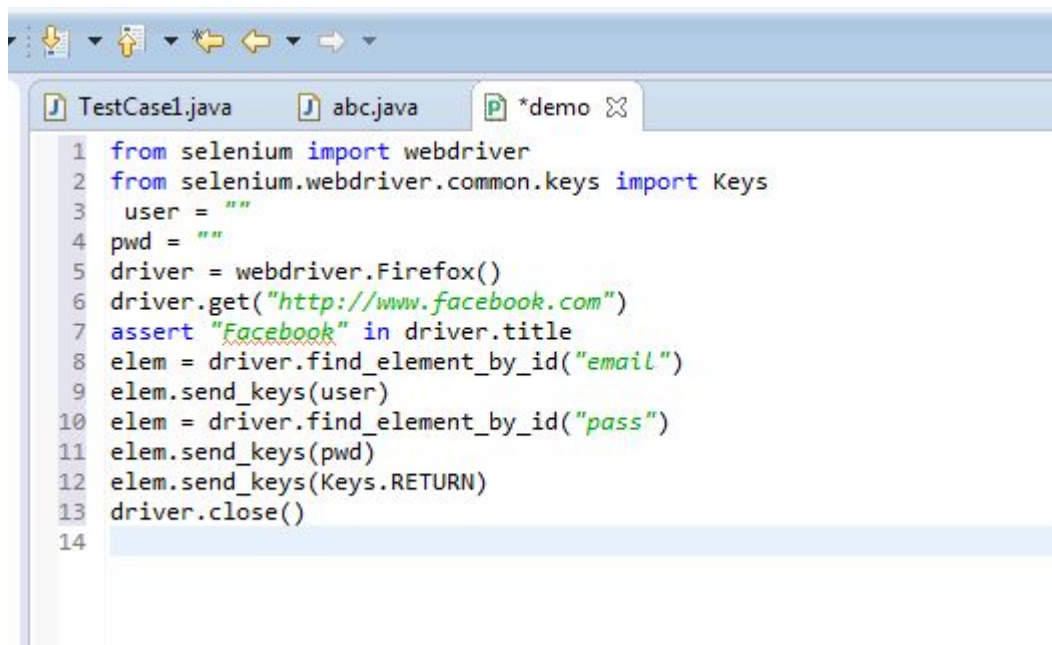- Selenium is an open source and portable Web testing Framework

Why?

- It is an open-source, free-to-use, portable tool
- various types of testing.
- Easy to understand

How?

- forward a request to the Selenium server that sits at the back-end, which will execute the test cases on the browsers automatically

- different browsers including Firefox, Chrome, IE, etc need different web browsers

Sample

```python
from selenium import webdriver
from selenium.webdriver.common.keys import Keys
 user = ""
pwd = ""
driver = webdriver.Firefox()
driver.get("http://www.facebook.com")
assert "Facebook" in driver.title
elem = driver.find_element_by_id("email")
elem.send_keys(user)
elem = driver.find_element_by_id("pass")
elem.send_keys(pwd)
elem.send_keys(Keys.RETURN)
driver.close()
```

Let's back up and go over html basics

- **\<html\>**: html document specifier
- **\<head\>**: document meta-data container
- **\<body\>**: the top-most content element in the **document**.
- **\<div\>**: generic container widget
- **\<span\>**: container for inline markup
- **\<ol\>** / **\<ul\>**: ordered/unordered lists
  - **\<li\>**: list item

- **<button>**: button

- **<img>**: display image

- **<a>**: anchor tag that creates hyperlink

- **<input>**: types include…
  - checkbox, color, date, datetime, file, month, number, password, radio, range, search, tel, text, time, url, …

- **<textarea>:** resizable area with multiple lines of editable text

Starter Code Selenium

Thank you!