

## **American International University-Bangladesh (AIUB)**

# Department of Computer Science Faculty of Science & Technology (FST) Summer 21-22

## **Assignment**

## **Selenium Installation Guide & Testing**

Software Quality & Testing

Section: A

### **Submitted To**

Abhijit Bhowmik

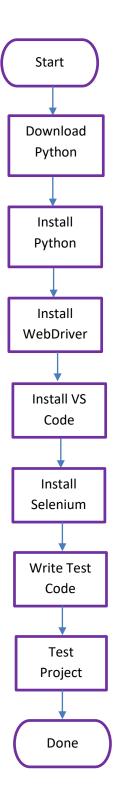
## **Submitted By**

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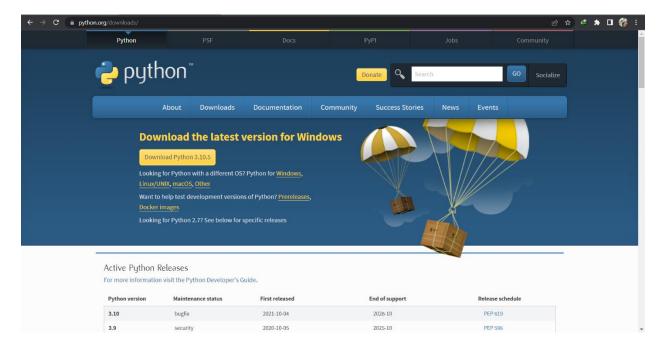
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# 1. Flowchart of Selenium Installation & Testing

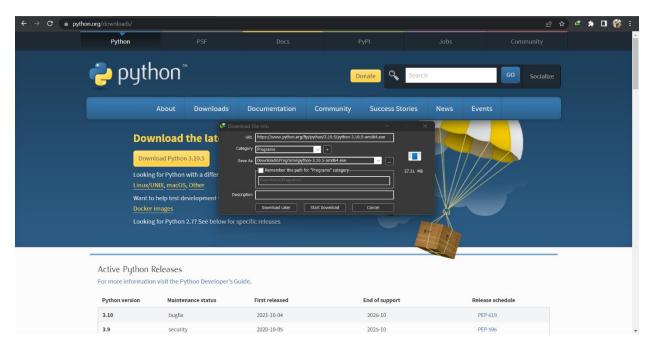


## 2. Python Download

First search for 'Download python', then click on the first link appear.

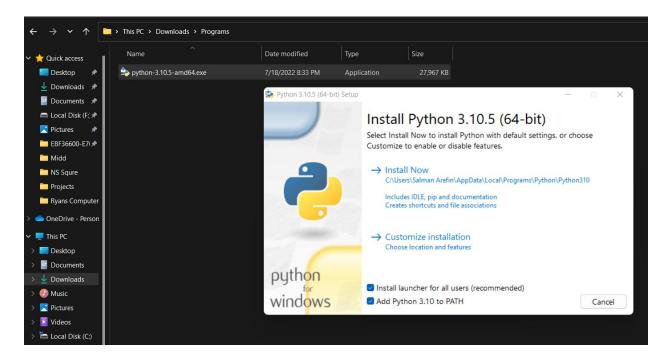


Next, Click on the download button simply.

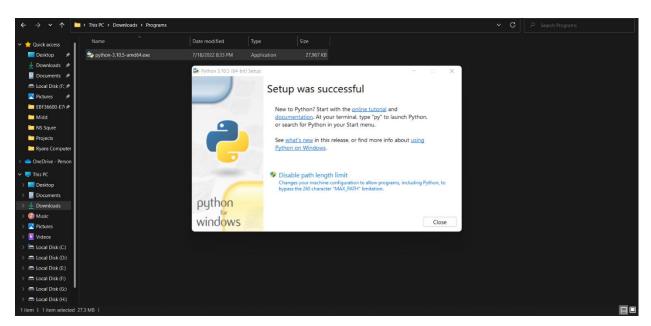


### 3. Install Python

Next go to the download folder and click right button and select run as administrator. Then click on install launcher for all users (recommended) and as well as the Add Python 3.10 to PATH. Then click on Install Now.



Next close the window.



## 4. Upgrade pip

Opening cmd write pip install –upgrade pip.

```
Command Prompt - pip install --upgrade pip
 ollecting python-dotenv
 Downloading python_dotenv-0.20.0-py3-none-any.whl (17 kB)
Requirement already satisfied: idna<4,>=2.5 in c:\users\salman arefin\appdata\local\programs\python\python310\lib\site-p
ackages (from requests->webdriver-manager) (3.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\salman arefin\appdata\local\programs\python\python310\l
ib\site-packages (from requests->webdriver-manager) (1.26.10)
Collecting charset-normalizer<3,>=2
 Downloading charset_normalizer-2.1.0-py3-none-any.whl (39 kB)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\salman arefin\appdata\local\programs\python\python310\lib\
site-packages (from requests->webdriver-manager) (2022.6.15)
Installing collected packages: python-dotenv, charset-normalizer, requests, webdriver-manager
Successfully installed charset-normalizer-2.1.0 python-dotenv-0.20.0 requests-2.28.1 webdriver-manager-3.8.2
 JARNING: You are using pip version 22.0.4; however, version 22.1.2 is available.

You should consider upgrading via the 'C:\Users\Salman Arefin\AppData\Local\Programs\Python\Python310\python.exe -m pip

Install --upgrade pip' command.
::\Users\Salman Arefin>
 :\Users\Salman Arefin>
 :\Users\Salman Arefin> pip install --upgrade pip
Requirement already satisfied: pip in c:\users\salman arefin\appdata\local\programs\python\python310\lib\site-packages (
22.0.4)
Collecting pip
 Downloading pip-22.1.2-py3-none-any.whl (2.1 MB)
                                               -- 2.1/2.1 MB 1.4 MB/s eta 0:00:00
Installing collected packages: pip
 Attempting uninstall: pip
    Found existing installation: pip 22.0.4
    Uninstalling pip-22.0.4:
      Successfully uninstalled pip-22.0.4
```

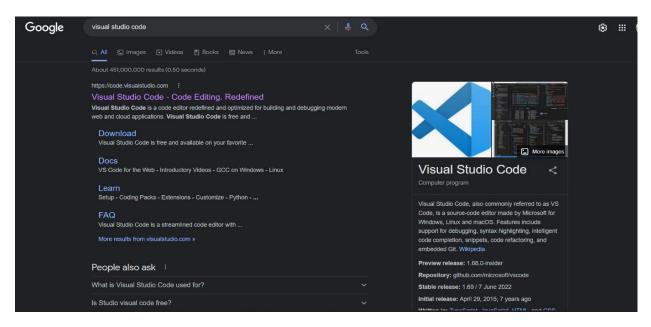
#### 5. Install WebDriver Manager

Opening cmd write pip install webdriver-manager.

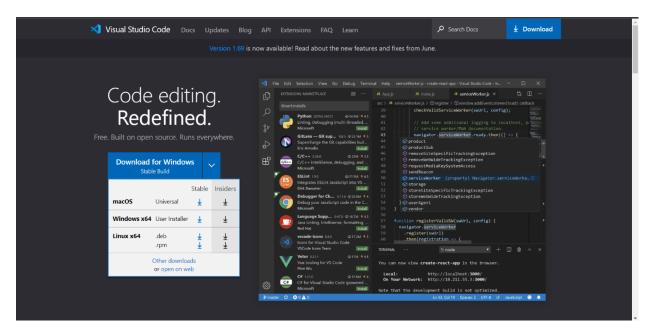
```
:\Users\Salman Arefin>pip install webdriver-manager
 Collecting webdriver-manager
  Downloading webdriver_manager-3.8.2-py2.py3-none-any.whl (26 kB)
 Collecting requests
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
                                                     62.8/62.8 KB 674.4 kB/s eta 0:00:00
Collecting python-dotenv
  Downloading python_dotenv-0.20.0-py3-none-any.whl (17 kB)
Requirement already satisfied: idna<4,>=2.5 in c:\users\salman arefin\appdata\local\programs\python\python310\lib\site-p
ackages (from requests->webdriver-manager) (3.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\salman arefin\appdata\local\programs\python\python310\l
ib\site-packages (from requests->webdriver-manager) (1.26.10)
Collecting charset-normalizer<3,>=2
  Downloading charset_normalizer-2.1.0-py3-none-any.whl (39 kB)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\salman arefin\appdata\local\programs\python\python310\lib\
site-packages (from requests->webdriver-manager) (2022.6.15)
Installing collected packages: python-dotenv, charset-normalizer, requests, webdriver-manager
Successfully installed charset-normalizer-2.1.0 python-dotenv-0.20.0 requests-2.28.1 webdriver-manager-3.8.2
 WARNING: You are using pip version 22.0.4; however, version 22.1.2 is available.
You should consider upgrading via the 'C:\Users\Salman Arefin\AppData\Local\Programs\Python\Python310\python.exe -m pip
install --upgrade pip' command.
C:\Users\Salman Arefin>
C:\Users\Salman Arefin>
C:\Users\Salman Arefin>
```

#### 6. Install Visual Studio Code

First search for 'Visual Studio Code', then click on the first link appear



Next, Click on the download for windows stable build version.



#### 7. Install Selenium

Opening cmd write pip install selenium.

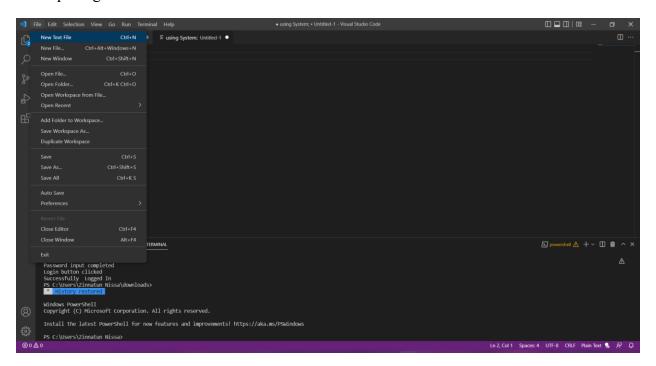
```
Command Prompt
Collecting sniffio
 Downloading sniffio-1.2.0-py3-none-any.whl (10 kB)
Collecting wsproto>=0.14
 Downloading wsproto-1.1.0-py3-none-any.whl (24 kB)
 ollecting pyOpenSSL>=0.14
 Downloading pyOpenSSL-22.0.0-py2.py3-none-any.whl (55 kB)
 Downloading certifi-2022.6.15-py3-none-any.whl (160 kB)
                                         ----- 160.2/160.2 KB 4.7 MB/s eta 0:00:00
Collecting cryptography>=1.3.4
 Downloading cryptography-37.0.4-cp36-abi3-win_amd64.whl (2.4 MB)
                                          ----- 2.4/2.4 MB 1.6 MB/s eta 0:00:00
Collecting PySocks!=1.5.7,<2.0,>=1.5.6
 Downloading PySocks-1.7.1-py3-none-any.whl (16 kB)
Requirement already satisfied: pycparser in c:\users\salman arefin\appdata\local\programs\python\python310\lib\site-pack
ages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Collecting h11<1,>=0.9.0
 Downloading h11-0.13.0-py3-none-any.whl (58 kB)
Installing collected packages: sortedcontainers, urllib3, sniffio, PySocks, outcome, idna, h11, certifi, async-generator
 wsproto, trio, cryptography, trio-websocket, pyOpenSSL, selenium
Successfully installed PySocks-1.7.1 async-generator-1.10 certifi-2022.6.15 cryptography-37.0.4 h11-0.13.0 idna-3.3 outc
 me-1.2.0 pyOpenSSL-22.0.0 selenium-4.3.0 sniffio-1.2.0 sortedcontainers-2.4.0 trio-0.21.0 trio-websocket-0.9.2 urllib3-
1.26.10 wsproto-1.1.0
 ARNING: You are using pip version 22.0.4; however, version 22.1.2 is available.

You should consider upgrading via the 'C:\Users\Salman Arefin\AppData\Local\Programs\Python\Python310\python.exe -m pip

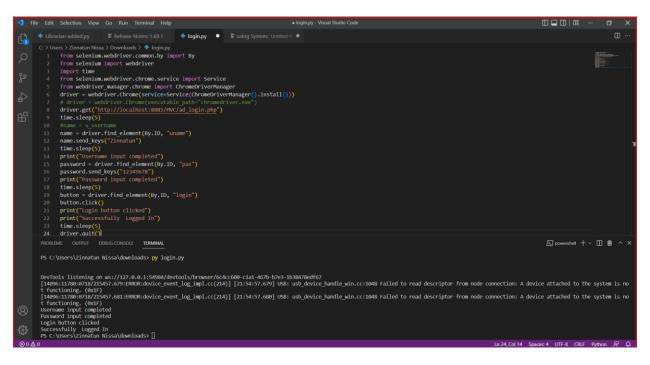
Install --upgrade pip' command.
```

### 8. Automation Testing by Selenium

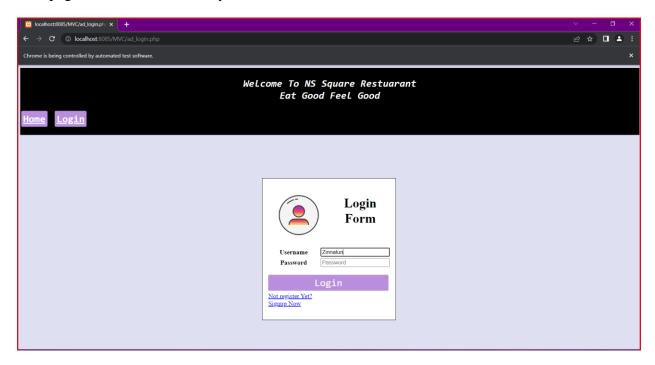
First opening Vs code click 'File'>'New Text File'.

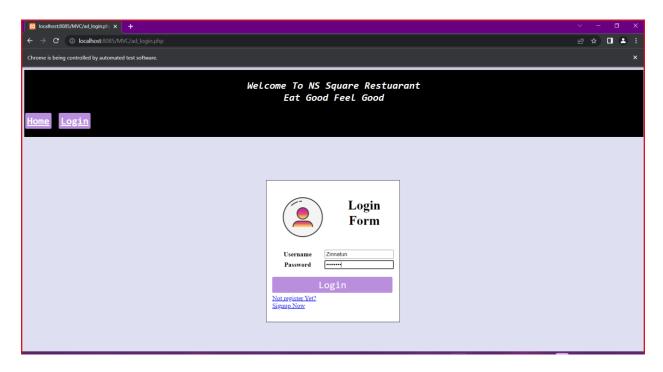


Then written a testing code in order to test an existing project login page. Then by running testing is successfully accomplished.



This page is automated tested by selenium.





Finally, Home page is shown after a successful login.

