
Browser drivers with python Webdriver manager

We all know that we need to have browser drivers, .exe files like chromedriver.exe and geckodriver.exe in case of windows environment or binary files like chromedriver and geckodriver in case of linux distributions, in order to run our selenium Webdriver automation scripts on chrome and Firefox browsers.

And also, we need to set the path of these files in our script like below or need to add location to the class path.

Example:

```
driver = webdriver.Chrome(executable_path="/path/to/binary/chromedriver")
```

```
driver = webdriver.Firefox(executable_path="/path/to/binary/geckodriver")
```

If the path is not defined/given or if the path provided is wrong, we will get an exception. And it is mandatory for all browsers to have browser drivers.

```
selenium.common.exceptions.WebDriverException: Message: 'geckodriver' executable needs to be in PATH.
```

```
selenium.common.exceptions.WebDriverException: Message: 'chromedriver' executable needs to be in PATH. Please see https://sites.google.com/a/chromium.org/chromedriver/home
```

How do we use this in our project?

Only setup required is to install this package using 'pip'.

pip install webdriver_manager

That's it! We are all set. Just import this module in your python project and start using it.

For Firefox:

```
from webdriver_manager.firefox import GeckoDriverManager
from selenium import webdriver

driver = webdriver.Firefox(executable_path=GeckoDriverManager().install())
driver.get("http://www.google.com/")
print(driver.title)

driver.quit()
```

For Chrome:

```
from webdriver_manager.chrome import ChromeDriverManager
from selenium import webdriver

driver = webdriver.Chrome(executable_path=ChromeDriverManager().install())
driver.get("http://www.google.com/")
driver.maximize_window()
driver.implicitly_wait(30)

print(driver.title)
driver.quit()
```

For Internet Explorer:

```
from webdriver_manager.microsoft import IEDriverManager
from selenium import webdriver

driver = webdriver.Ie(executable_path=IEDriverManager().install())
driver.get("http://www.google.com/")
driver.maximize_window()

print(driver.title)
driver.quit()
```

webdriver_manager, by default, tries to download the latest version of a given driver binary. To use a specific version of driver, pass the driver version like below.

```
webdriver.Chrome(executable_path=ChromeDriverManager("2.42").install())
```