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ing Selenium WebDriver,

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How to Automate Testing Using Selenium WebDriver, Jenkins

06:29

Integration (CI) environment, with the objective of to familiarize yourself with a series of automation and and leverage these tools to implement and automate

d the rest of this blog post, you should already be and [unit tests](#).

egrated in a CI environment. Here at BlazeMeter, we 1 [Jenkins](#). The testing framework we are working with is es to support complex functional testing for

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BlazeMeter and holds an MBA and B.Sc in Software Engineering. Since 2009,

Eliran has held multiple technological roles, including software testing, technical support, and automation engineering. In 2012, Eliran started his own venture: 'EATV' - a food ordering application directly on the SAMSUNG Smart TV. He also worked in Kaltura for three years, where he had experience with Fortune 500 Companies. Eliran is an eternal optimist and passionate about UX and creating high quality products.

in

em on a nightly basis, there are several prerequisites

should perform the following steps.

though there are other desktop browsers available out
ariDriver, OperaDriver and PhantomJS. Download
r. In our case it will be `/python27/bin`.

mostly use in BlazeMeter, but you may choose any
s to it.

ports can be found [here](#)

it) for our purposes would be [PyCharm](#).

e tools for automated testing. Generally speaking,
If you haven't heard about WebDriver yet, this is your
omated testing and a stable product. Additional info

ave chosen, the next step would be to choose the
is the testing framework we are working with in

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which interprets the test.py file and parses only the
out how to write tests under PyTest convention can be

ated tests, go ahead and create your first End-to-End
quick and short as possible in order to prepare for
e and verify the URL once signed in).

ists as expected.

webdriver Python vs. PyTest:

```
password):  
password)
```

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```
y  
  
...NAME, field)  
  
word):  
)  
)  
  
lick()  
  
urrent_url
```

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```
ore", default="chrome", help="Type in browser t  
", default="https://qa.moodle.net/", help="url"  
store", default="manager", help="username")  
store", default="test", help="password")
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river")
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word")
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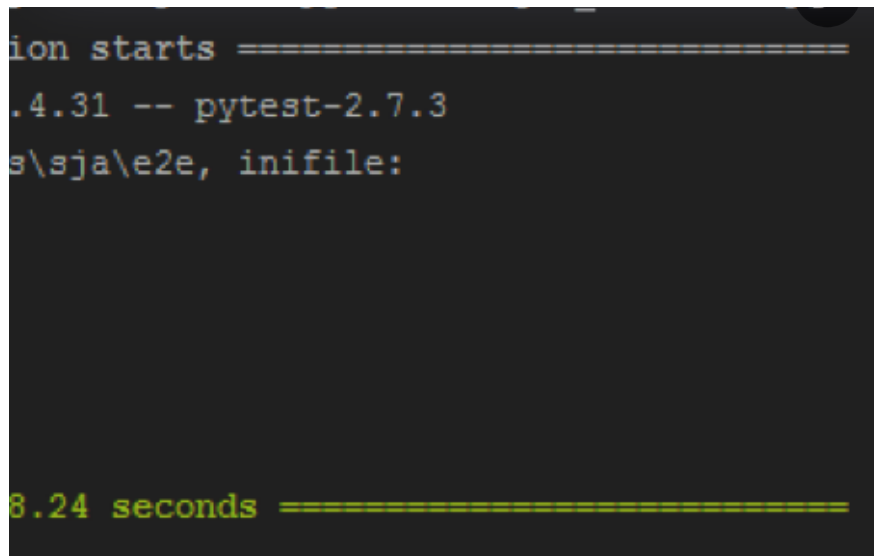
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tion, the correct way to run them in your local

doption under the `conftest.py` file.



ow:

```
odle.net --username=manager --password=test tes
```

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sed as a simple CI server or turned into the continuous

irtual environment which installs requirements.txt prior

r to create a virtual Python environment and its usage

ion on how to export all relevant installed modules to

e test execution reports with good representation of
u to automatically generate an Allure Report and
[the plugin](#) and then let's start working with Jenkins.

include all of the steps mentioned above, including:

ript:



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```
environment ####'  
activate
```

```
s ####'  
txt
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```
results ./e2e/login_scenario.py
```

```
environment ###
```

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the next challenge is to export the test results to a
environment variable and to provide statistics on tests

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, txt, mp4 and many more attachments.

parameters or by their default values as described

scenario.py

Generated in: 1s 249ms Data size: 10.9 kB Version: 1.4.19 English Provide Feedback

Testsuite: e2e.login_scenario

Login scenario

Test cases (4 total)

Failed (0) Broken (0) Canceled (0) Pending (0) Passed (4)

Total	#	Title	Duration	Status
4	1	Test open url	5s 426ms	PASSED
4	2	Test add credentials	202ms	PASSED
	3	Test submit form	1s 972ms	PASSED
	4	Test verify url	4ms	PASSED

can be embedded into the live report such as

is shown via Jenkins after a build is finished



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to the latest release on a nightly basis. Additional
on a specific schedule can be found [here](#).

Jenkins. All that's left is to schedule these tests to run
e with the latest build on a nightly basis.

r job in Jenkins that triggers all these jobs that you

onal testing, Jenkins - combined with open source tools
is also a great tool for continuous performance testing
d more about [how to run JMeter With Jenkins](#), [running a JMeter test](#)
[Jenkins](#).

erage tools like Taurus, Selenium and Jenkins with

o Automate JMeter and Selenium Tests.

k, questions or other concerns.

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