



Belastingdienst

Instructions for preparation

Hi all! I am really looking forward to meeting you all virtually and sharing with you my knowledge of and experiences with test automation and the tools you can use to do that.

In order to lose as little time as possible at the start of the training, I want to ask you to prepare your laptop for the exercises you'll be working on by following these instructions.

If you have any questions about or problems with completing these instructions, please let me know as soon as possible by email: bas@ontestautomation.com, and I'll try and help you as best as I can.

See you on March 30th!

-- Bas

Installing and configuring Java Development Kit (JDK) 1.8

Writing test automation is software development! Java software development, in this case. This means we'll need a Java Development Kit installed to be able to write, compile and run our tests and stubs. I highly recommend to install and use a recent version of Java 8, which implies a JDK version 1.8. If you don't have a JDK on your laptop yet, here's a link to the download and installation instructions:

<https://www.oracle.com/java/technologies/javase-jdk8-downloads.html>

Be sure to set your PATH and JAVA_HOME variables after installation, as described in the installation instructions.

Installing and configuring Maven

To build and run our software projects, we will use Maven as a dependency manager and build tool. Instructions on how to download and install Maven on your machine can be found here:

<http://maven.apache.org/install.html>

Please do not forget to add the Maven */bin* directory to your PATH. Test whether it works using

```
mvn -v
```

This should result in output similar to this:

```
C:\Users\Bas>mvn -v
Apache Maven 3.6.0 (97c98ec64a1fdfee7767ce5fffb20918da4f719f3; 2018-10-24T20:41:47+02:00)
Maven home: C:\Tools\apache-maven-3.6.0\bin\..
Java version: 1.8.0_202, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_202\jre
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

Installing and configuring an IDE

To be able to efficiently write our tests, we also need an Integrated Development Environment (IDE). There are several available, with the two most popular for Java being IntelliJ IDEA (<https://www.jetbrains.com/idea/>).

I'm not going to argue about which IDE is the best. If you have a favorite of your own, pick that one. If you don't know which one to choose, I'd advise you to go with IntelliJ.

Importing the workshop project

I have prepared a Maven project containing all of the examples, exercises and even the answers to these exercises. I chose to include the answers to give you a means of getting ahead if you're really stuck during the workshop. There's only one way to really learn, however, and that's by trying yourself and failing until you succeed ☺

You can get the project from my GitHub page: <https://github.com/basdijkstra/java-for-testers>

The final version of the GitHub project will be available on Friday, March 27th end of day at the latest.

Please note that downloading the project before this time might result in having to work with an unfinished and incomplete version!

After you cloned (GitHub) or downloaded and unpacked (.zip) the project, import it into your IDE workspace. Instructions on how to do that in IntelliJ can be found here:

<https://www.jetbrains.com/help/idea/2017.1/importing-project-from-maven-model.html>

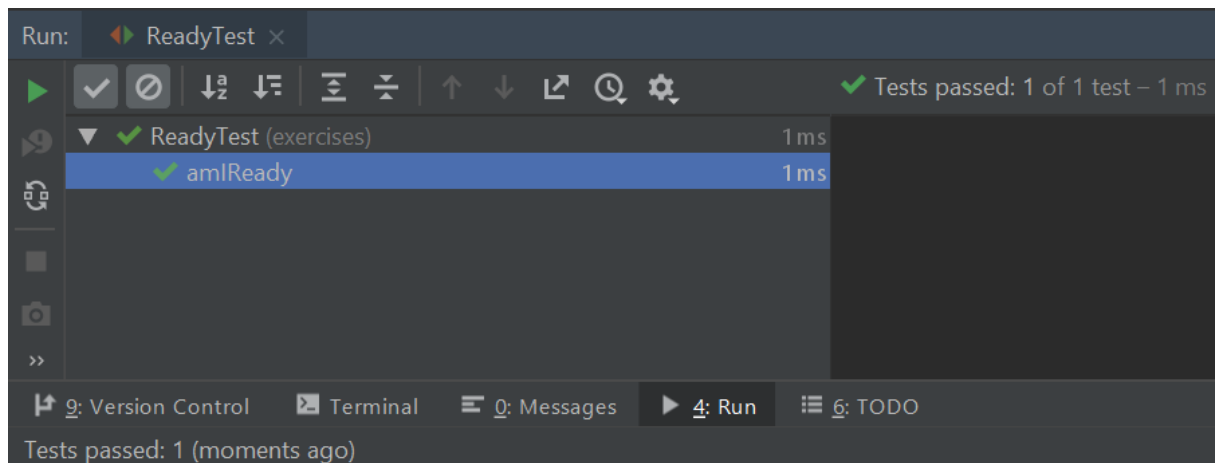
(you can use the default settings). Be sure to select the pom.xml file from the folder structure, and not just the folder containing the default project, otherwise IntelliJ probably won't recognize the project as a Maven project and subsequently won't download all dependencies.

Testing the workshop project

To be sure that you're ready to participate in the workshop, test that everything is set up by running the test in *src/test/java/exercises/ReadyTest.java*.

IntelliJ IDEA

Right click the file mentioned and choose 'Run ReadyTest'. This should result in something resembling these test results:



You've made it!

Thanks for bearing with me. Again, making sure that all machines are properly set up before the workshop saves a massive amount of time on the day, and I'd like you to get as much as possible out of it.

If you have any questions about or problems while completing these instructions, please send me an email at bas@ontestautomation.com with as many details as you can and I'll try and help you out as soon as possible.

See you on March 30th!

-- Bas