1. Objective

The objective of this document is to test the functionality of a ToDos application (angular-todo-app).

1. Features

The features which are going to be tested, are:

* add a To Do task
* edit a To Do task
* remove a To Do task from the list
* complete a To Do task by ticking the checkbox
* undo the completion of a To Do task by unticking the checkbox
* count the number of remaining tasks to be done
* clear the tasks that were done from the list

Anything else, besides the already mentioned features, will not be covered.

1. Approach

**3.1 Type of testing**

The type of tests to be carried out will be Functional testing, to determine that each of the individual features perform the functions for which they have been specified.

**3.2 Test tools**

The test cases will be created using ***TestRail Cloud*** (Test Case Management Tool).

Please use the following in order to access them:

URL: <https://aptodo.testrail.net>

Email Address: testertodoapp@gmail.com

Password: tester12345

To automate the test cases the following steps and tools will be used:

**Download *Java***

Check the installed java version

|  |
| --- |
| java -version |
| java version "1.8.0\_131" |
| Java(TM) SE Runtime Environment (build 1.8.0\_131-b11) |
| Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode) |

Download java in case this is not installed

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

**Set environmental variables accordingly**

**Download and install *Eclipse***

<https://www.eclipse.org/downloads/>

**Create a new Java project in Eclipse** (e.g. named 'Angular-ToDo-App')

The workspace path is locally set to D:\other\todo\workspace.

**Importing *Selenium* JARs in the Java Project, previously created**

Go to: <http://www.seleniumhq.org/download/>.

Download the Java language-specific client drivers in order to use Selenium WebDriver.

Add the Selenium JARs to the new created Java project, in Properties->Java Build Path.

**Download the browsers third party drivers (the latest available for Windows)**

**IE:** http://selenium-release.storage.googleapis.com/3.4/IEDriverServer\_x64\_3.4.0.zip

**Firefox:** <https://github.com/mozilla/geckodriver/releases/>

**Chrome:** http://chromedriver.storage.googleapis.com/index.html?path=2.29/

**Install *TestNG***

In Eclipse, go to Help->Eclipse Marketplace and install the TestNG plug-in, that will allows to run TestNG tests.

* 1. **Launch the automated Test Cases**

All the tools/frameworks used to automate the Test Cases and execute the automated Test Cases are uploaded to Github.

Please feel free to download then and stored them locally. I would suggest to use this path for download: D:\other\todo\, since there will be a dependency at least between the selenium libraries and third party drivers and Eclipse (otherwise this should be reconfigured).

***Documentation is available in the***

***‘documentation’ directory.***

***All the tools/frameworks are available in the***

***‘installed\_tools’ directory.***

***Eclipse is available in***

***‘java-neon’ directory.***

***The Java project that includes all the automated Test Cases is available in the***

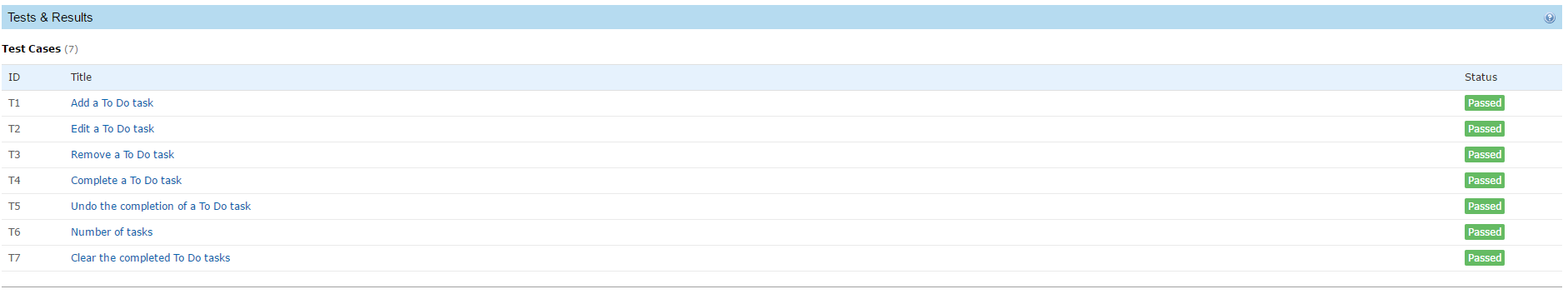
***‘workspace’ directory.***

***Steps:***

1. ***Open eclipse***
2. ***Open the Java project***
3. ***Open left hand panel: Package Explorer***
4. ***Select ../Angular-ToDo-App/src/tests/ToDoTasks.java***
5. ***Right click on ../Angular-ToDo-App/src/tests/ToDoTasks.java and select Run As -> TestNG Test***
   1. **Test Results** will be updated as Passed, Failed, or Not Completed.

**Eclipse:** 

**TestRail**:



**3.5 Test Deliverables:**

List test deliverables:

Test Plan (this document itself)

Test Cases

Test Scripts

Test Reports