

OCv2 Selenium Automation Installation and Training Materials

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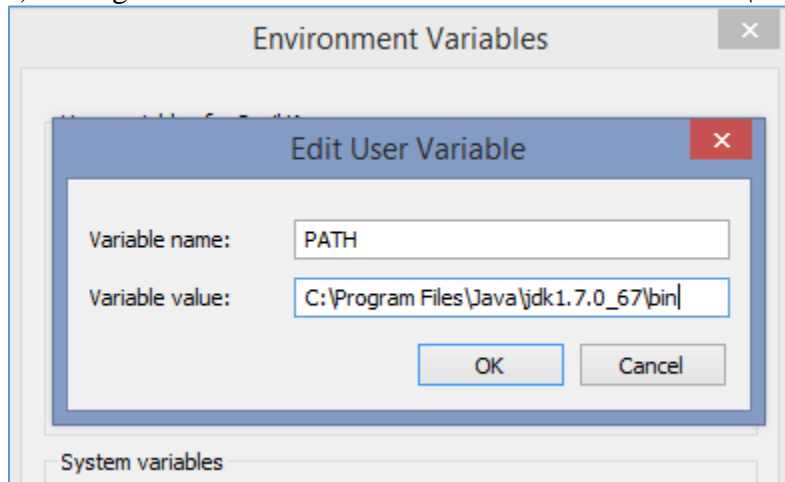
- a. [Software installs](#)
- b. [Git Introduction](#)
- c. [Git Branching](#)

1) Install Java 7 SDK

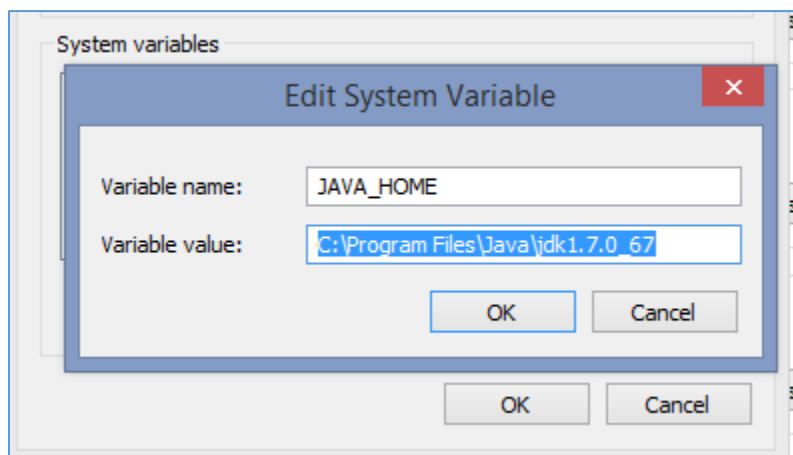
Java 8 is having compatibility issues with maven. Install Java 7 from below URL.

<http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>

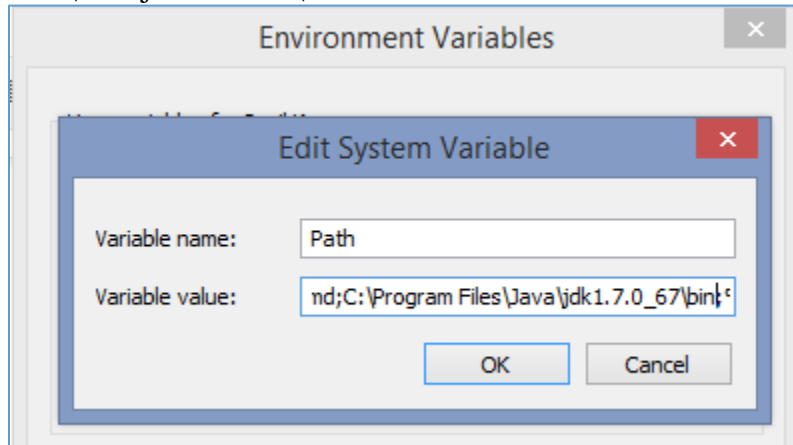
- a) Setting Path: Set PATH in user variable section as “C:\Program Files\Java\jdk1.7.0_67\bin”



- b) Set “JAVA_HOME” in system variable section as C:\Program Files\Java\jdk1.7



c) Set following value for “path” in system variable section as “C:\Program Files\Java\jdk1.7.0_67\bin”



d) Execute java -version to validate install.

```
Sunil Kumar@WORKPC /c/Titanic/classroom-ui/test/ziggy/ocv2 (tes
$ java -version
java version "1.7.0_67"
Java(TM) SE Runtime Environment (build 1.7.0_67-b01)
Java HotSpot(TM) 64-Bit Server VM (build 24.65-b04, mixed mode)
Sunil Kumar@WORKPC /c/Titanic/classroom-ui/test/ziggy/ocv2 (tes
$
```

2) Install Eclipse

<https://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/lunar>

Download Links

Windows 32-bit

Windows 64-bit

Mac OS X (Cocoa) 32-bit

Mac OS X (Cocoa) 64-bit

Linux 32-bit

Linux 64-bit

3) Install IntelliJ community edition

Download intellij community edition from this url:

<http://www.jetbrains.com/idea/download/>

Community Edition FREE

Lightweight IDE for **Java SE, Groovy & Scala** development

Powerful environment for building **Google Android** apps

Integration with JUnit, TestNG, popular SCMs, Ant & **Maven**

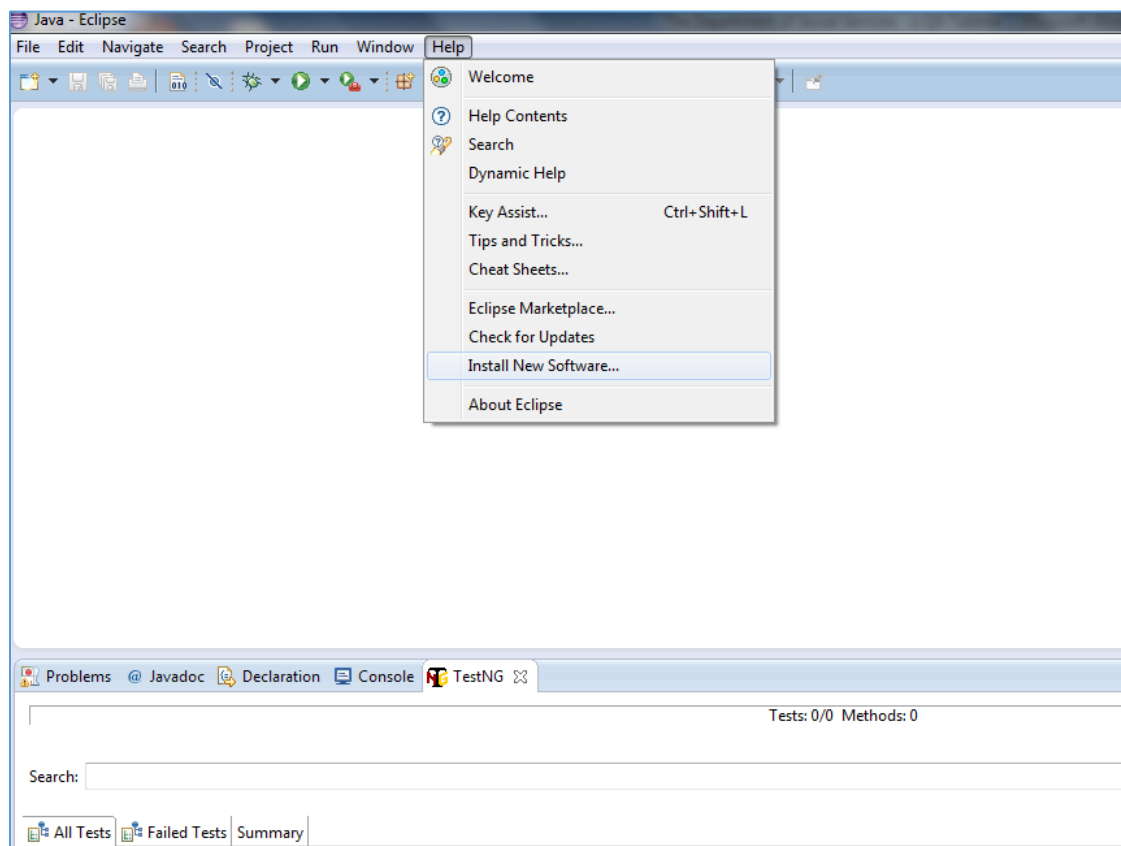
Free, open-source ([get the source code](#)), Apache 2 license

Download Community

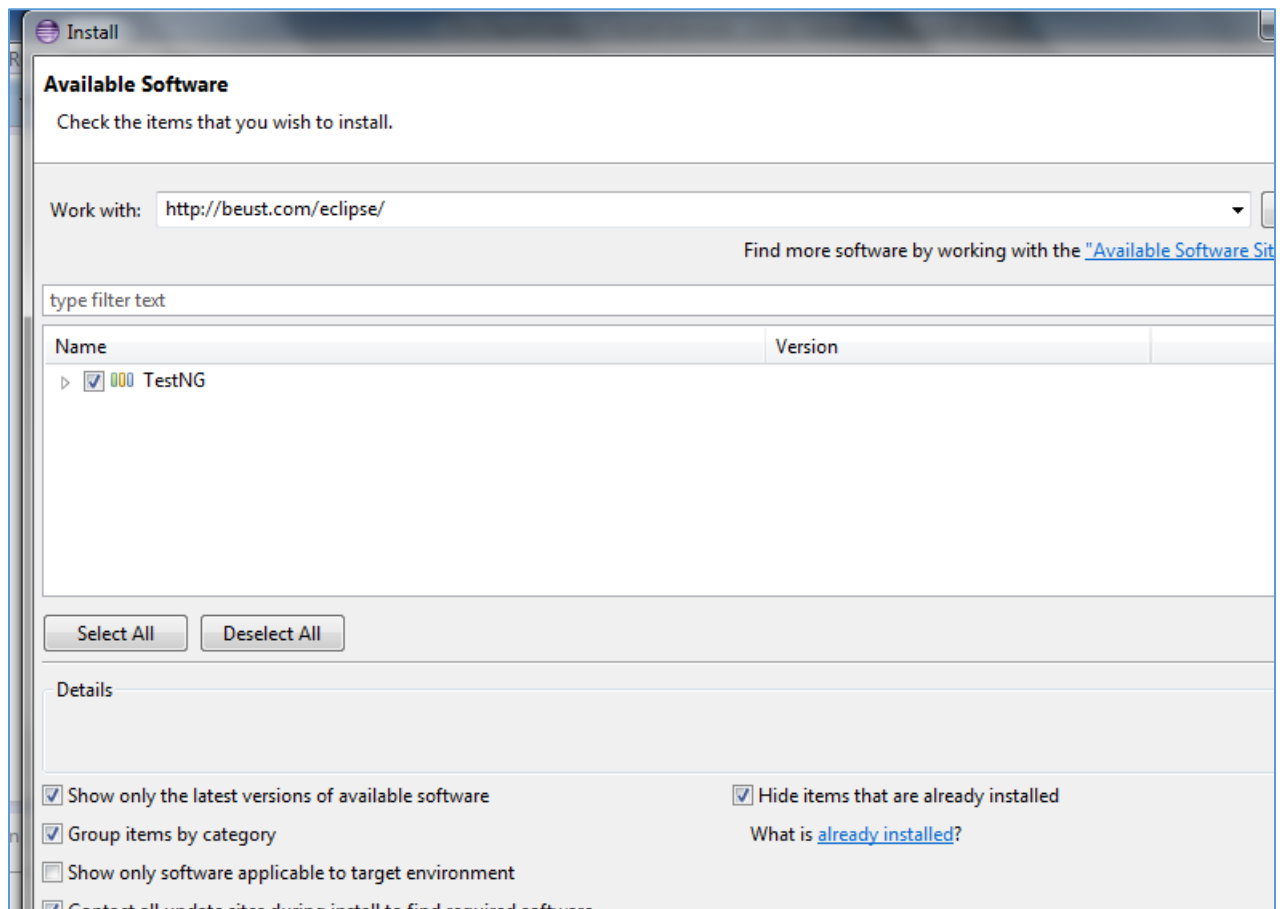
4) Install TestNG Plugin for eclipse

TestNG is a testing framework inspired from JUnit and NUnit but introducing some new functionalities that make it more powerful and easier to use, such as:

Open eclipse then go to Help > Install New Software



Then type <http://beust.com/eclipse/> in the “work with” field and select TestNG and Install the plugin.



5) Install Git Bash

<http://git-scm.com/download/win>

6) Git / Maven Commands Cheat sheet:-

- a. To know status: `git status`
- b. To add files: `git add -A`
- c. To commit: `git commit -m "type message here"`
- d. To Push: `git push -u origin "branch name"`
- e. To Clone project: `git clone ssh://git@devops-tools.pearson.com/occ/classroom-ui.git`
- f. To check out another branch: `git checkout "branch name here"`
- g. To pull changes from origin: `git pull`
- h. Maven Execution: `mvn clean install -Dmaven.test.skip=true`
- i. To register your name and email on stash:
`git config --global user.name "your name here"`
`git config --global user.email "your email here"`

7) Install Maven for Windows.

a) Download Apache Maven

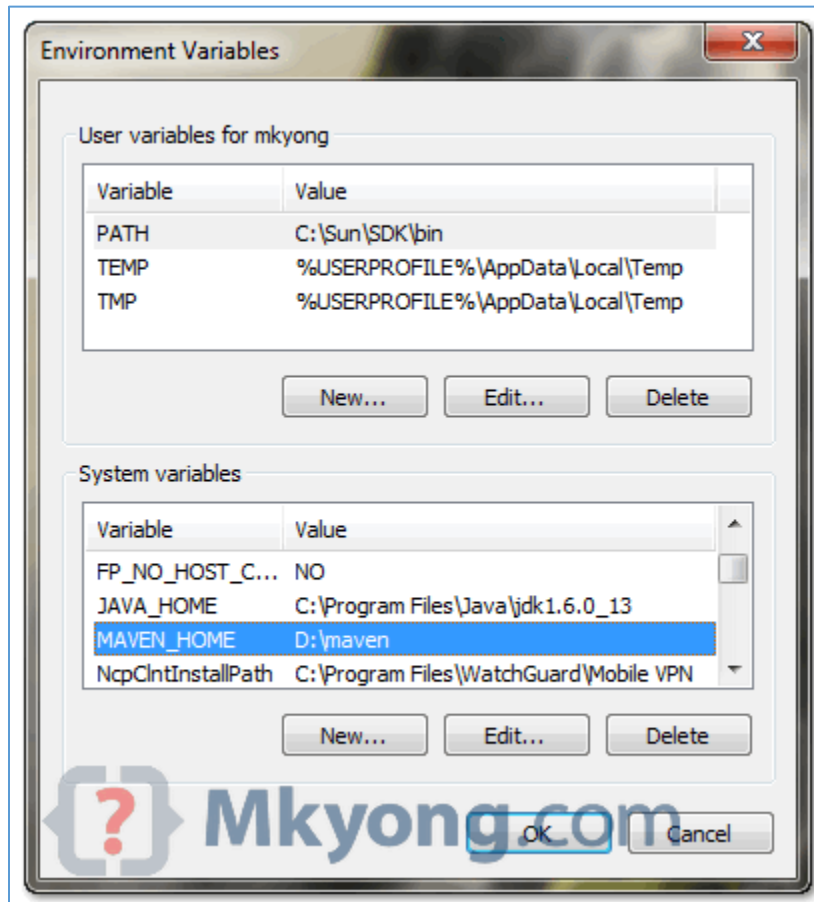
Visit this [Maven official website](#), choose a version and click on the download link, e.g `apache-maven-2.2.1-bin.zip`.

b) Extract It

Extract the downloaded zip file. In this case, we extracted to d driver and renamed the folder, e.g `D:\maven`.

c) Add MAVEN_HOME

Add a new `MAVEN_HOME` variable to the Windows environment, and point it to your Maven folder.



d) Add PATH

Update `PATH` variable, append “Maven bin folder” path, so that you can run the Maven’s command everywhere.



e) Verification

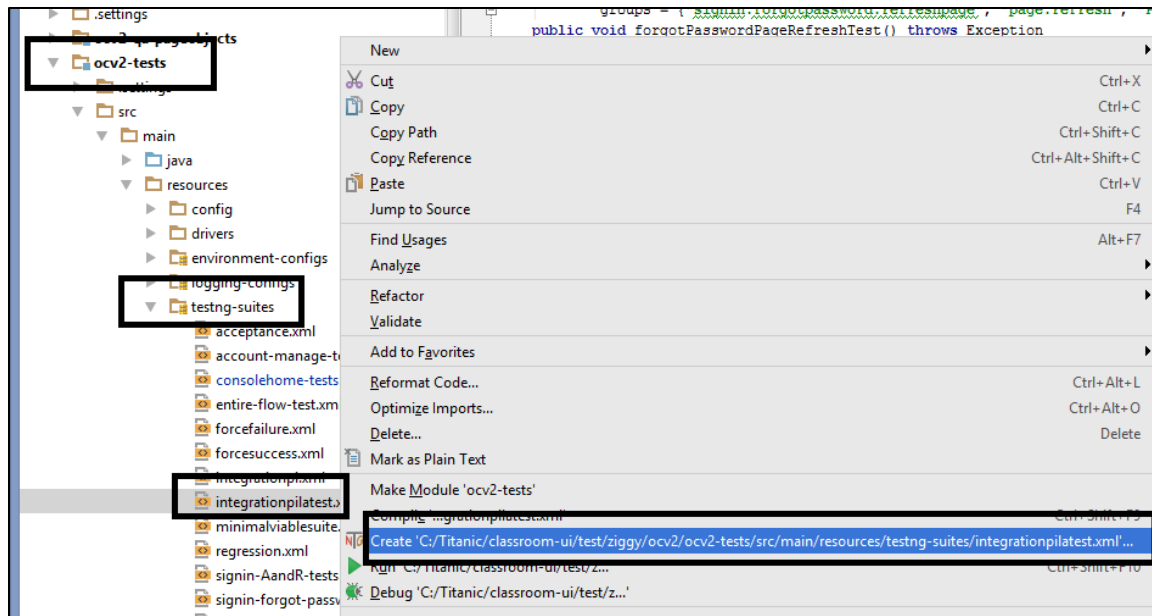
Done, to verify it, in command prompt, type “mvn -version”.

```
C:\Documents and Settings\mkyong>mvn -version
Apache Maven 2.2.1 (r801777; 2009-08-07 03:16:01+0800)
Java version: 1.6.0_13
Java home: C:\Program Files\Java\jdk1.6.0_13\jre
Default locale: en_US, platform encoding: Cp1252
OS name: "windows xp" version: "5.1" arch: "x86" Family: "windows"
```

If you see similar message, means your Apache Maven is installed successfully on Windows.

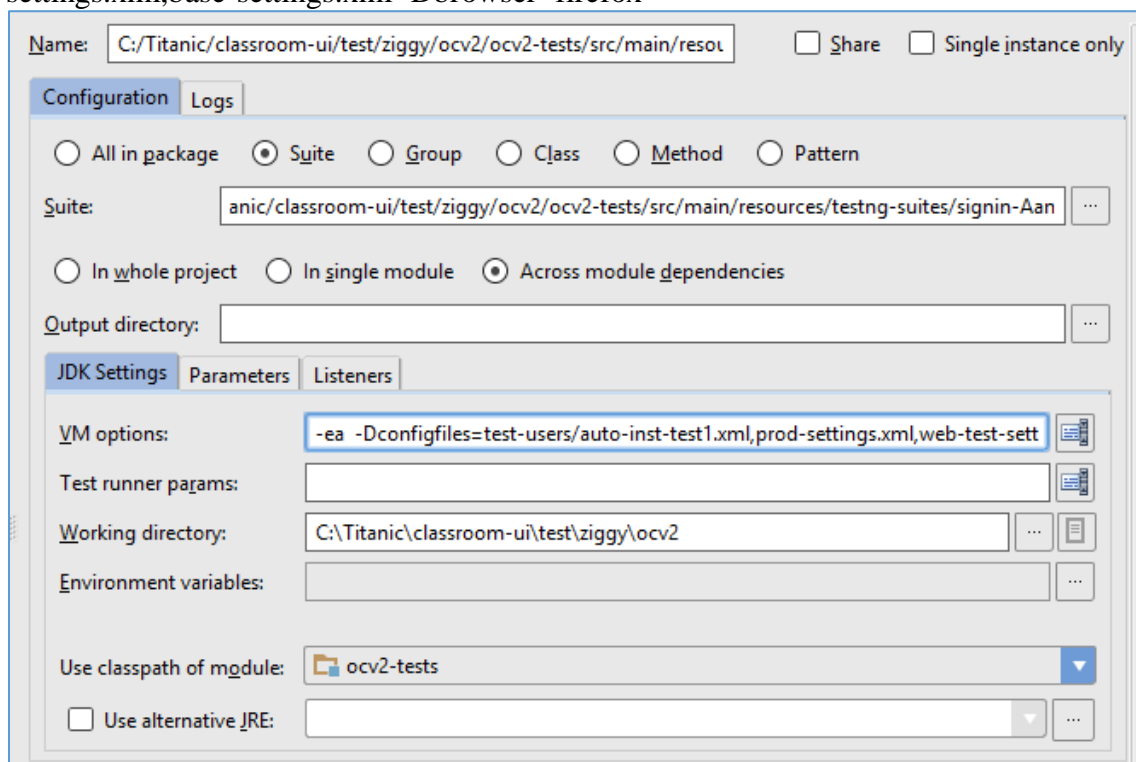
14) Import project in Eclipse/IntelliJ:-

- a) Follow troubleshooting steps above to resolve importing issues.
- b) Import projects as existing maven project.
- c) Run a stable test suite and verify stability of test. End point - tests pass, browser loading as expected, no errors reported in logs.
- d) Create a practice branch if you have rights. Otherwise use “test/ziggy/sunil-practice” to run, create new tests for execution.
- e) To execute tests in intelliJ, select particular xml test suite in ocv2-tests\...\resources\testng-suites. Right click, select create xml config.

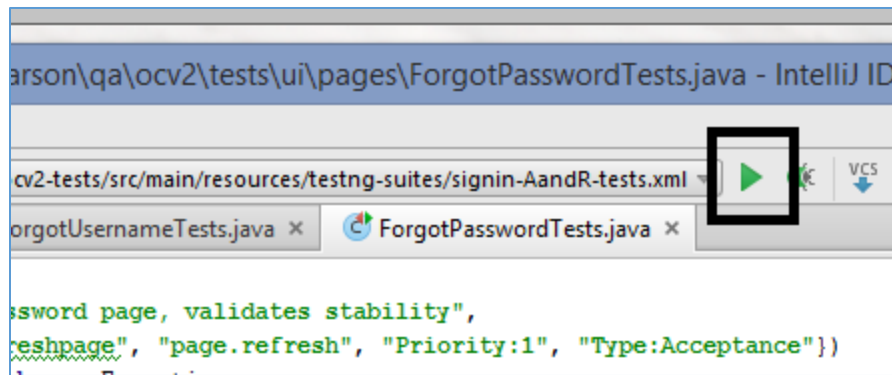


Config pops up for that particular xml suite. Append the following to VM Options, click apply and ok.

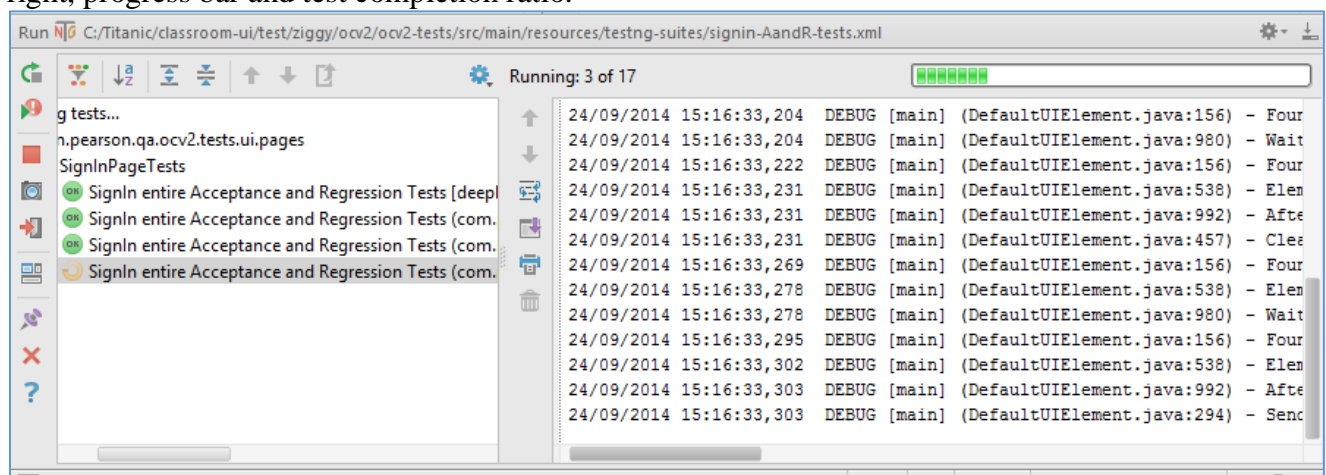
-Dconfigfiles=test-users/educator4.xml,pi-staging-settings.xml,staging-settings.xml,web-test-settings.xml,base-settings.xml -Dbrowser=firefox



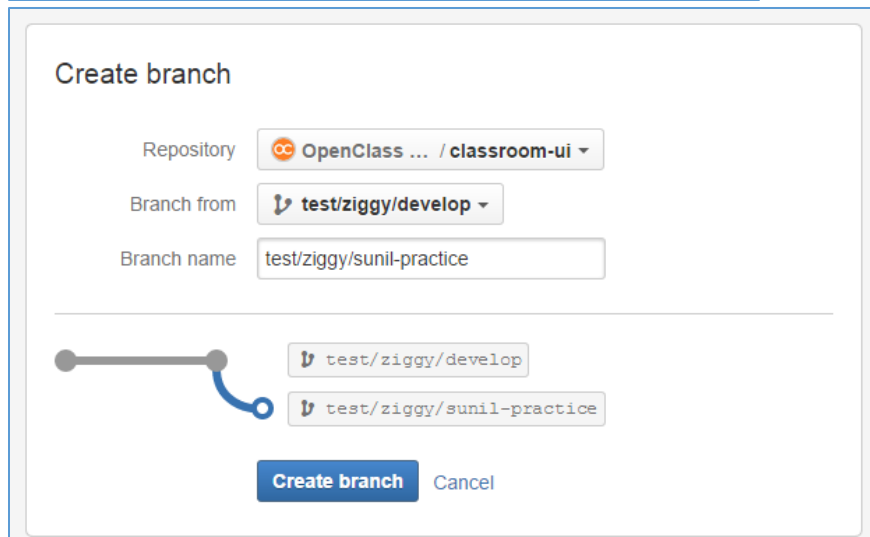
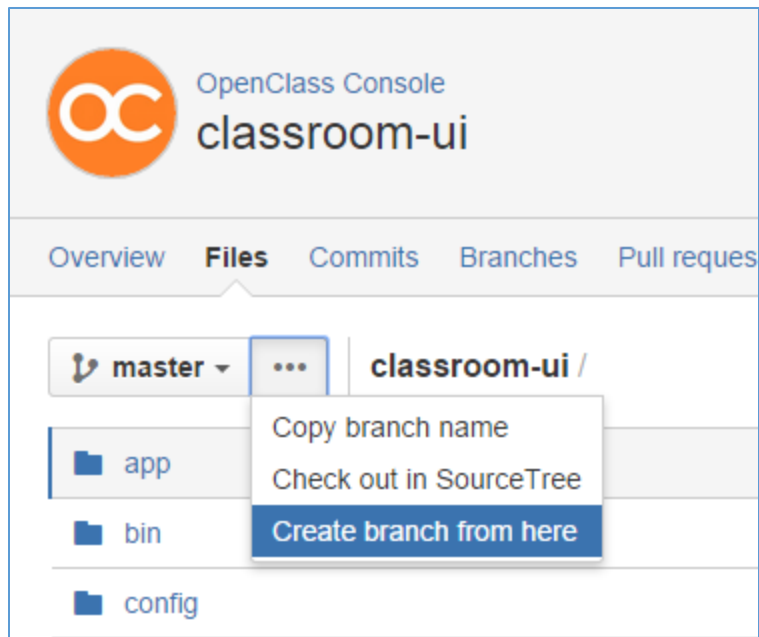
f) Double check above steps and hit triangle button as seen below.



g) If everything goes well, we see the following - testNg tests running in left, console logs in right, progress bar and test completion ratio.

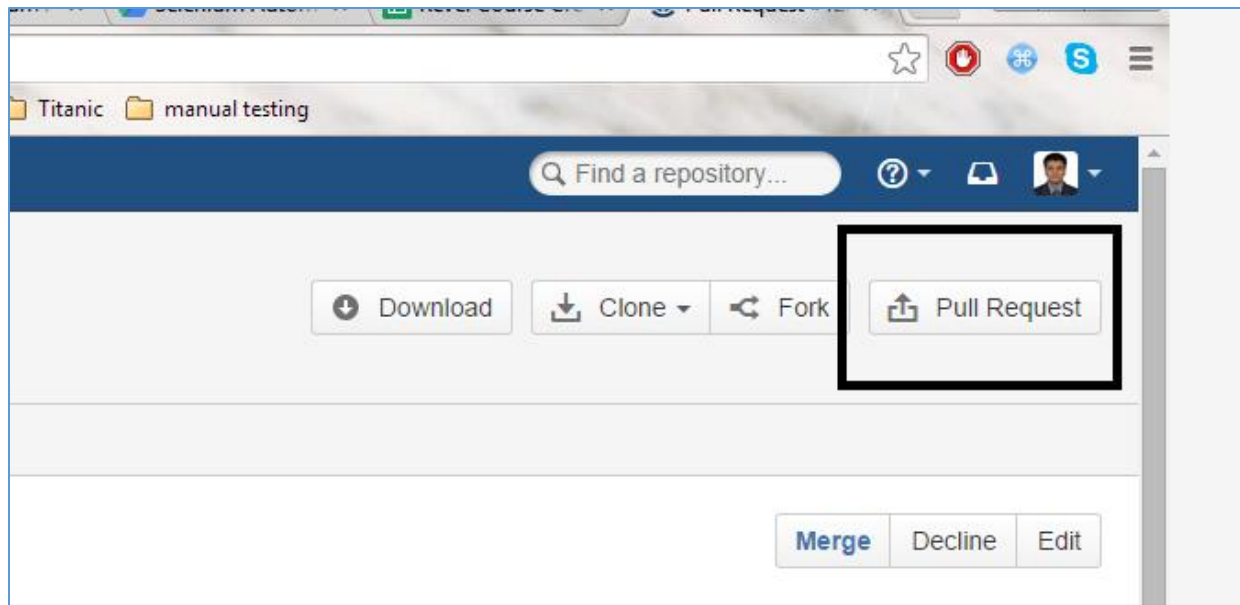


15) Creating Git branch from Stash:-



16) Creating a pull request

- Go to project in stash <https://devops-tools.pearson.com/stash/projects/OCC/repos/classroom-ui/browse>
- Click pull request as seen below.



c) Select source branch – e.g. (test/ziggy/sunil) and destination branch (test/ziggy/develop). Add reviewers (Eg. Danbury, Aaron and Campbell, Jake). Click :Create pull request” button. Email notificaiton is sent to reviewers.

Create Pull Request

Source

OpenClass ... / classroom-ui

test/ziggy/sunil

Kumar, Sunil committed e416737 28 mins ago
minor changes to console page tests

→

Destination

OpenClass ... / classroom-ui

test/ziggy/develop

Zimmerman, Stuart committed 49415b2 A moment ago
CourseManagementTests additional commenting

Pull request details

Title* Test/ziggy/sunil

Description

- * console page tests - 3 in number
- * console page tests - 3 more
- * minor changes to console page tests

Reviewers

Danbury, Aaron x

Reviewers can approve a pull request to let others know when it is good to merge

Create pull request Cancel

Once you open pull request, we can see request number, source and destination branch, options to merge and approve, modified files encased in their folders, actual code modifications and ability to comment on changes. If there is a merge conflict do manual merge using IntelliJ.

The screenshot displays a GitHub Pull Request (PR) for the repository 'Responsive Tooltips Quick Fix'. The PR is titled 'Responsive Tooltips Quick Fix' and is currently in the 'Open' state. The source branch is 'console-c...' and the destination branch is 'release'. The PR number is #113. The interface includes buttons for 'Merge', 'Decline', 'Edit', and 'Approve'. The PR is associated with the commit 'console-c... release'.

The PR is for the file 'app / layer / auth / scripts / signup.js', which is marked as 'MODIFIED'. The file is located in the 'app' directory, under 'layer', 'auth', and 'scripts'. The file is 'signup.js'. The PR shows the following code modifications:

```
372 372    };
373 373
374 374    Account.doesEmailExist($scope.user.email, successHandler, errorHandler);
375 375  }
376 376  }, 250);
377 377
378 378  $scope.showEmailTooltipFunc = function() {
379 379
380 380  if ($scope.emailExists) {
381 381  $scope.showEmailTooltip = true;
382 382  $scope.showPasswordTooltip = false;
383 383  $scope.showUsernameSuggestionsTooltip = false;
384 384  };
385 385
386 386  $scope.hideEmailTooltipFunc = function() {
387 387
388 388  $scope.showEmailTooltip = false;
389 389  $scope.showPasswordTooltip = false;
390 390  $scope.showUsernameSuggestionsTooltip = false;
391 391  };
392 392
393 393
394 394
395 395
396 396  $scope.toggleEmailTooltip = function() {
```