

# Spring Boot Project

By

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# Create a Java Project using start.spring.io

The screenshot shows the start.spring.io web interface. At the top, the browser address bar shows 'start.spring.io'. Below the browser, the page title is 'Spring Initializr'. The main heading is 'Generate a **Maven Project** with **Java** and Spring Boot 1.5.6'. The interface is divided into two main sections: 'Project Metadata' and 'Dependencies'.

**Project Metadata**

Artifact coordinates

Group: **com.example**

Artifact: **devops**

Name: **devops**

Description: **DevOps Demo Project**

Package Name: **com.example.devops**

Packaging: **War**

Java Version: **1.8**

**Dependencies**

Add Spring Boot Starters and dependencies to your application

Search for dependencies: Web, Security, JPA, Actuator, Devtools...

Selected Dependencies: **Web** **Thymeleaf**

Too many options? [Switch back to the simple version.](#)

**Generate Project**

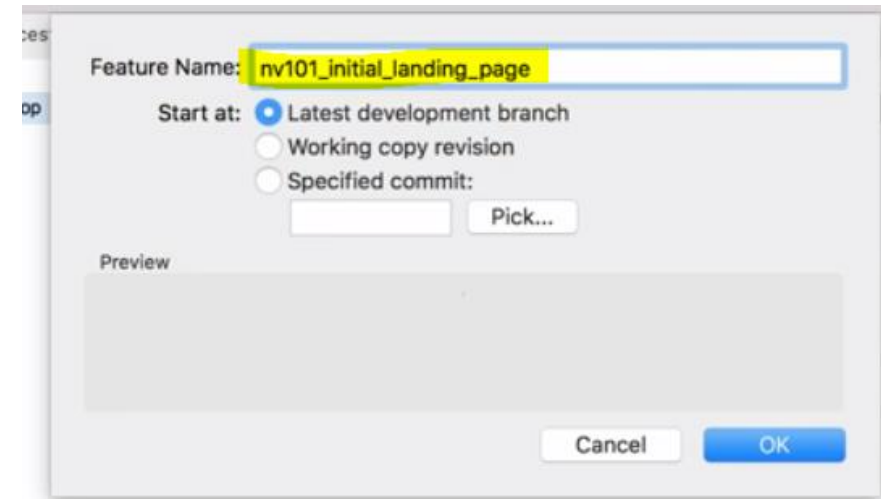
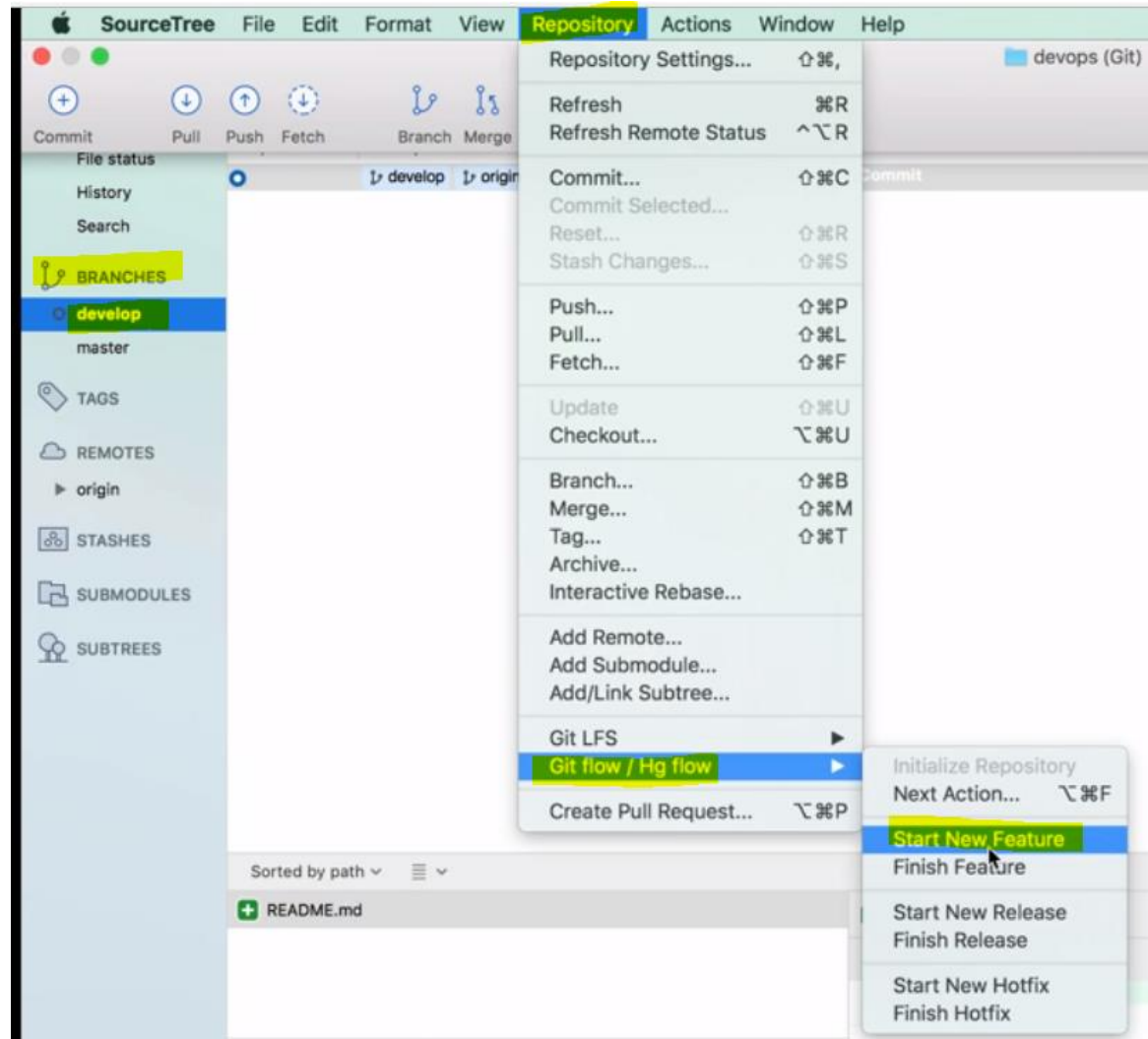
# Go to Repo & Verify the branches

- Repo Status

```
dev@Nands-MacBook-Pro-15 ~/DevOps/github/devops (develop)$git status
On branch develop
Your branch is up-to-date with 'origin/develop'.
nothing to commit, working tree clean
```

```
dev@Nands-MacBook-Pro-15 ~/DevOps/github/devops (develop)$git branch
* develop
  master
```

# Go to SourceTree & Generate a branch



# After creating the feature branch, check as below

```
dev@Nands-MacBook-Pro-15 ~/DevOps/github/devops (develop)$git status
On branch feature/nv101_initial_landing_page
nothing to commit, working tree clean
```

```
dev@Nands-MacBook-Pro-15 ~/DevOps/github/devops (feature/nv101_initial_landing_page)$ls -l
total 8
-rw-r--r--  1 dev  staff   9 Jul 28 09:20 README.md
```

- Note: Copy the repo to maven files to repository

```
dev@Nands-MacBook-Pro-15 ~/DevOps/github/devops (feature/nv101_initial_landing_page)$cp -R /users/dev/Downloads/devops/ .
dev@Nands-MacBook-Pro-15 ~/DevOps/github/devops (feature/nv101_initial_landing_page)$ls -l
total 48
-rw-r--r--  1 dev  staff    9 Jul 28 09:20 README.md
-rwxr-xr-x@ 1 dev  staff  6468 Jul 28 09:55 mvnw
-rw-r--r--@ 1 dev  staff  4994 Jul 28 09:55 mvnw.cmd
-rw-r--r--@ 1 dev  staff  1705 Jul 28 09:55 pom.xml
drwxr-xr-x@ 4 dev  staff   136 Jul 28 09:55 src
```

Now, execute `# mvn clean`

It should download everything related to this project & build should be successful.

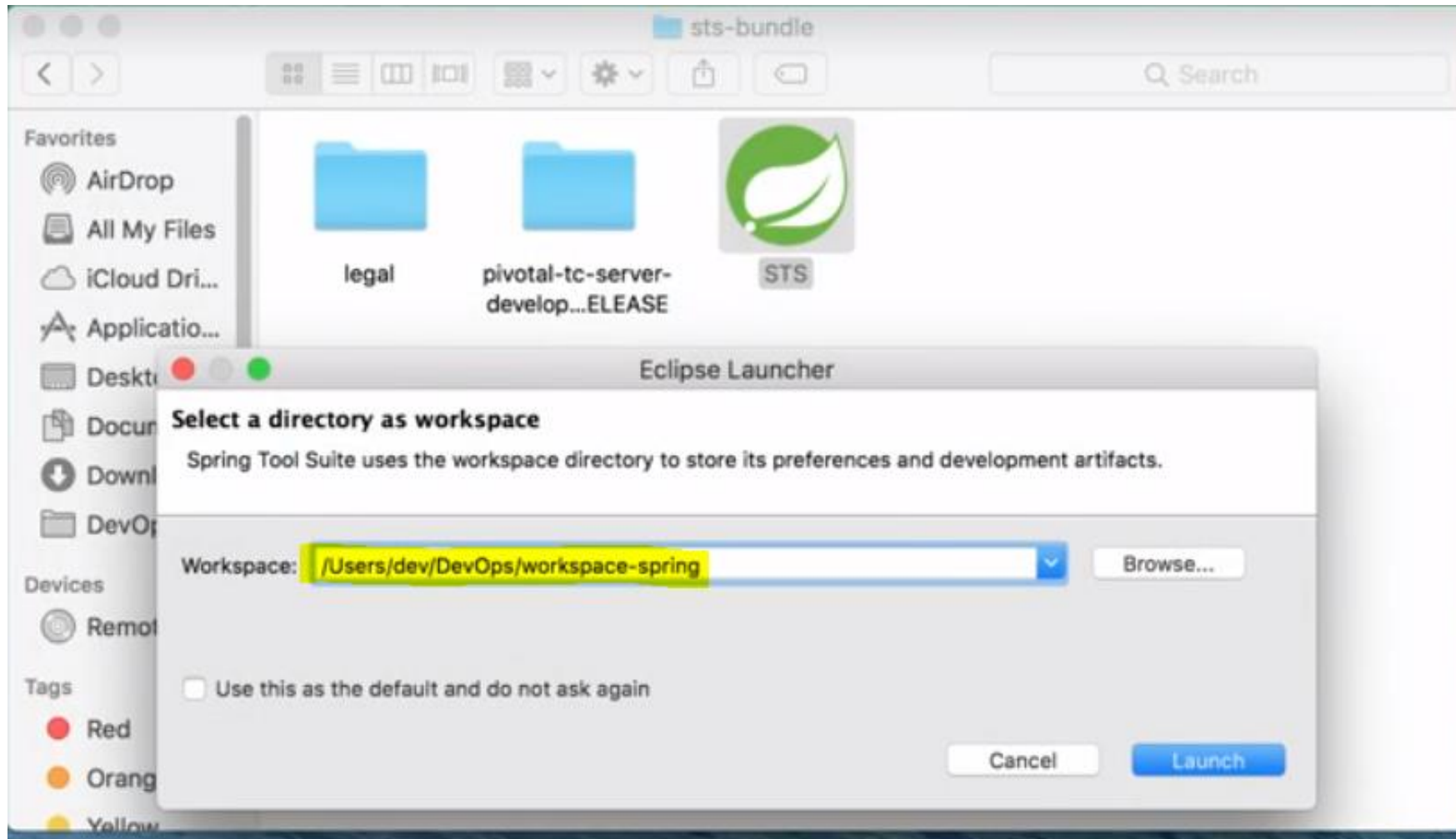
```
dev@Nands-MacBook-Pro-15 ~/DevOps/github/devops (feature/nv101_initial_landing_page)$mvn clean
[INFO] Scanning for projects...
Downloading: http://localhost:8081/artifactory/libs-release-local/org/springframework/boot/spring-boot-starter-parent-1.5.6.RELEASE.pom
Downloading: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/1.5.6.RELEASE.pom
Downloaded: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/1.5.6.RELEASE.pom (7.5 kB at 26 kB/s)
Downloading: http://localhost:8081/artifactory/libs-release-local/org/springframework/boot/spring-boot-dependencies-1.5.6.RELEASE.pom
```

# Spring STS Setup and Import

- STS Tool
- Import Java Build
- Select Spring Boot App, so that changes will effect without restarting the tomcat
- STS 3.9.0 has Auto import bug, hence fix it.

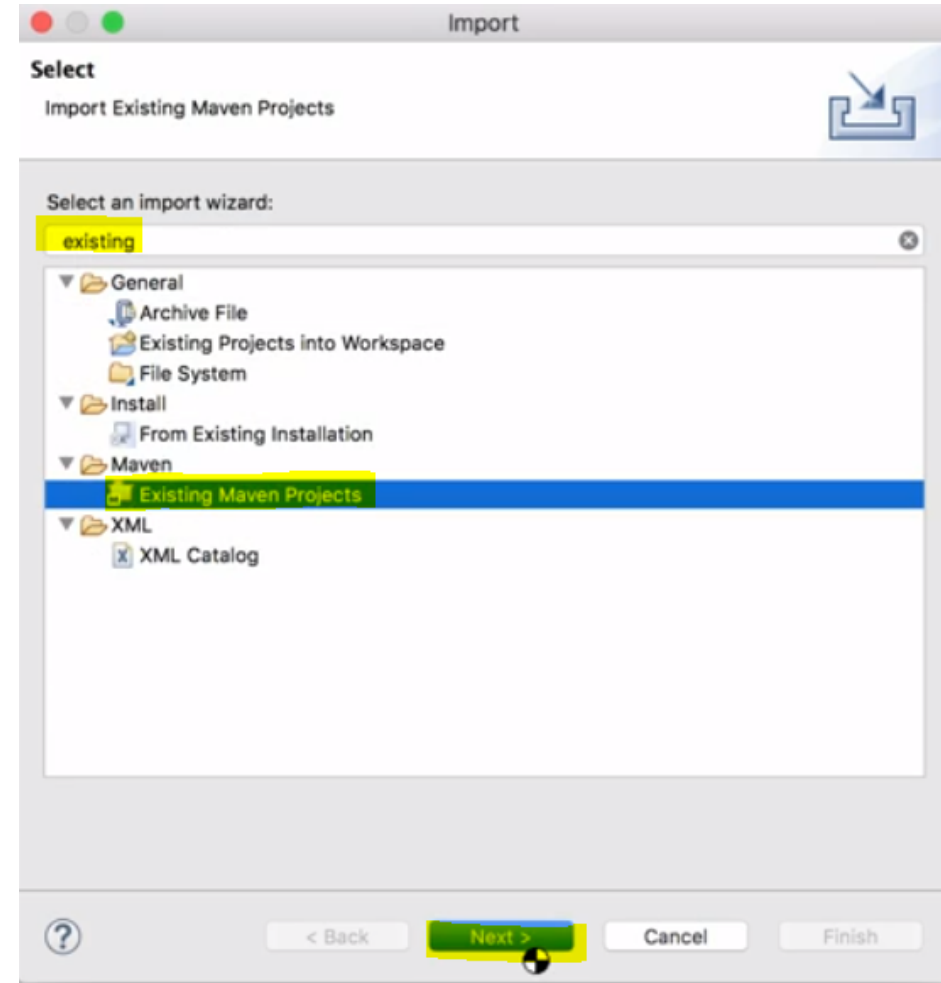
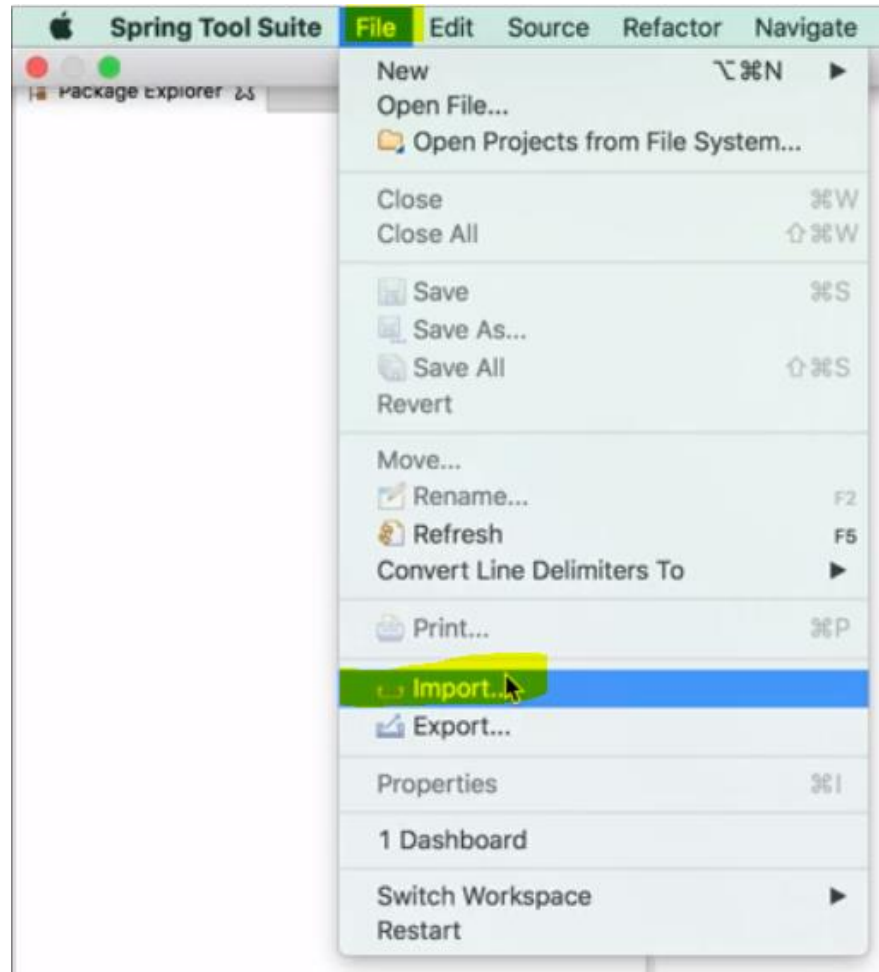


# Open STS & Configure Work Space as below

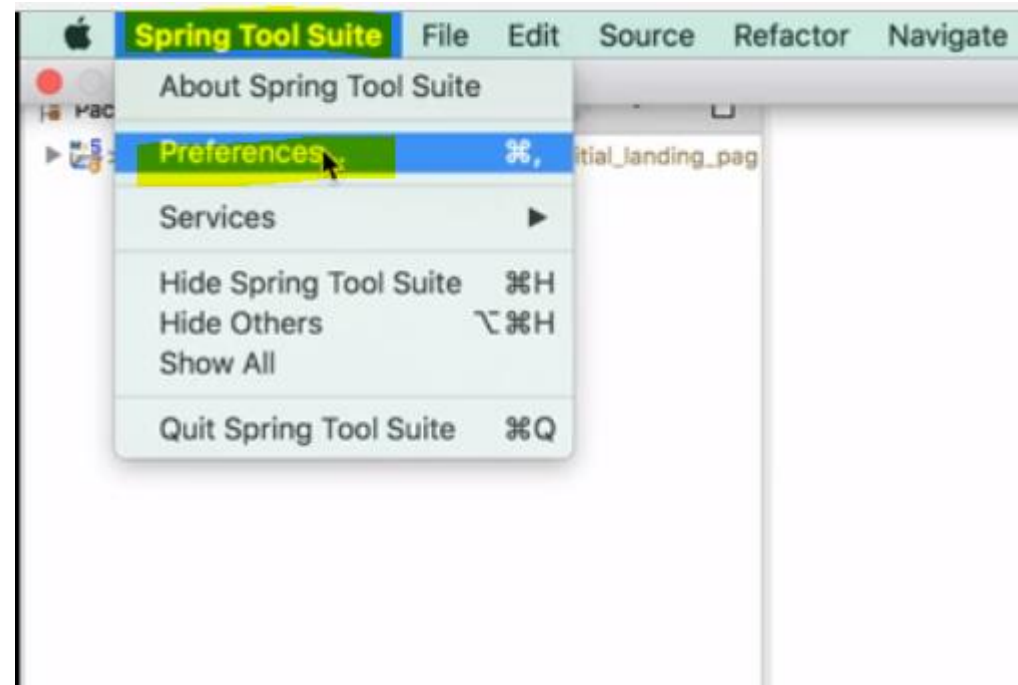
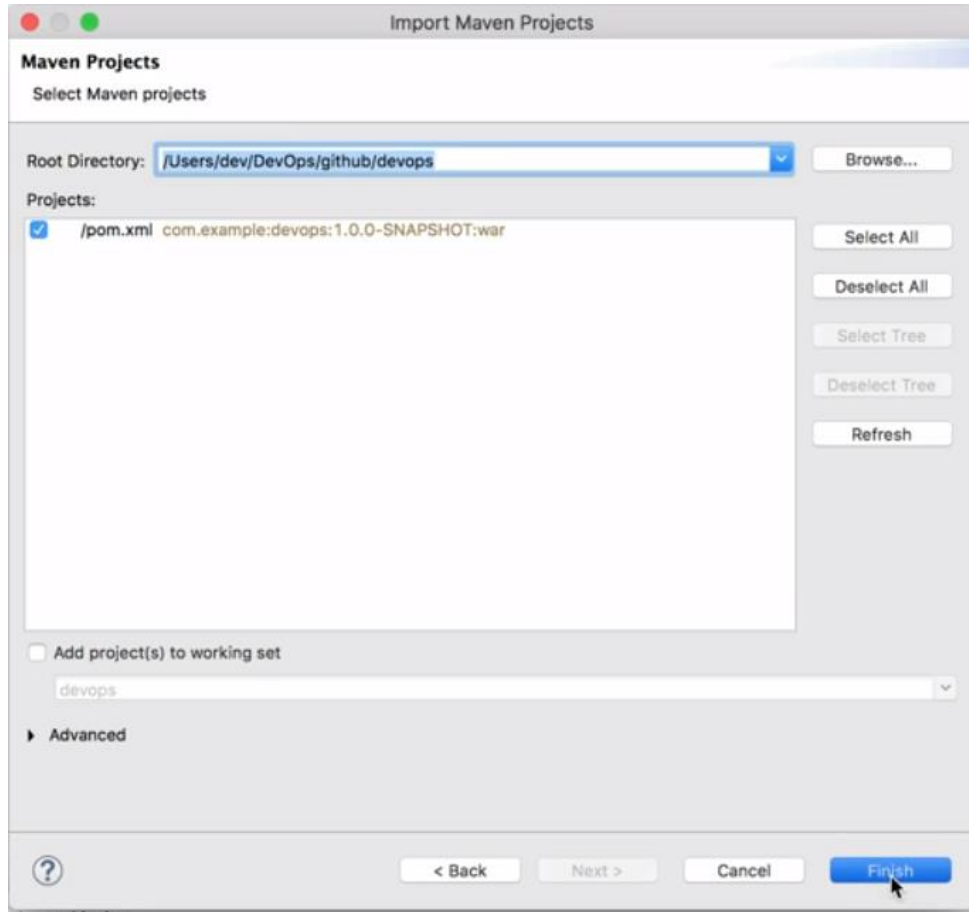




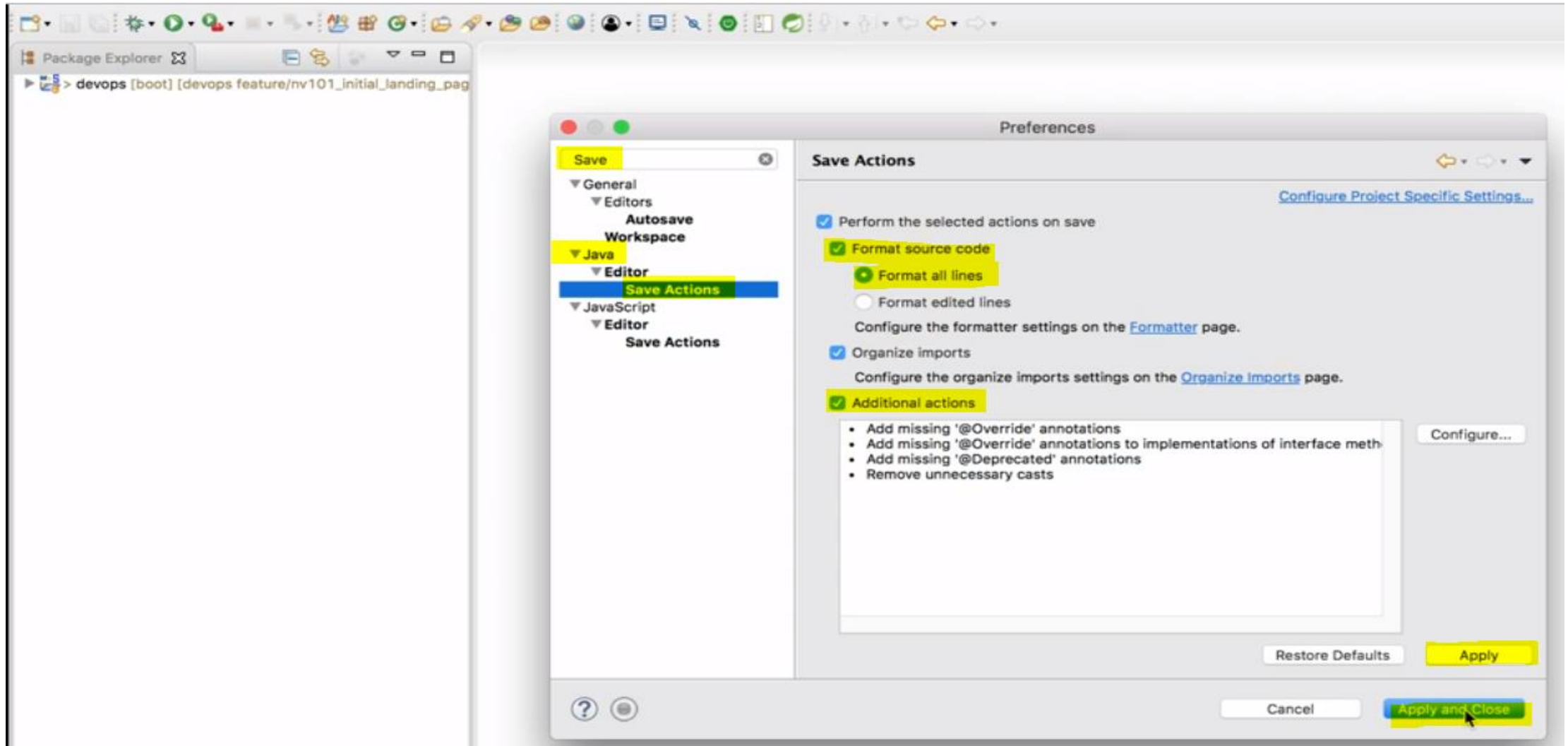
# Go to STS & Import a Project



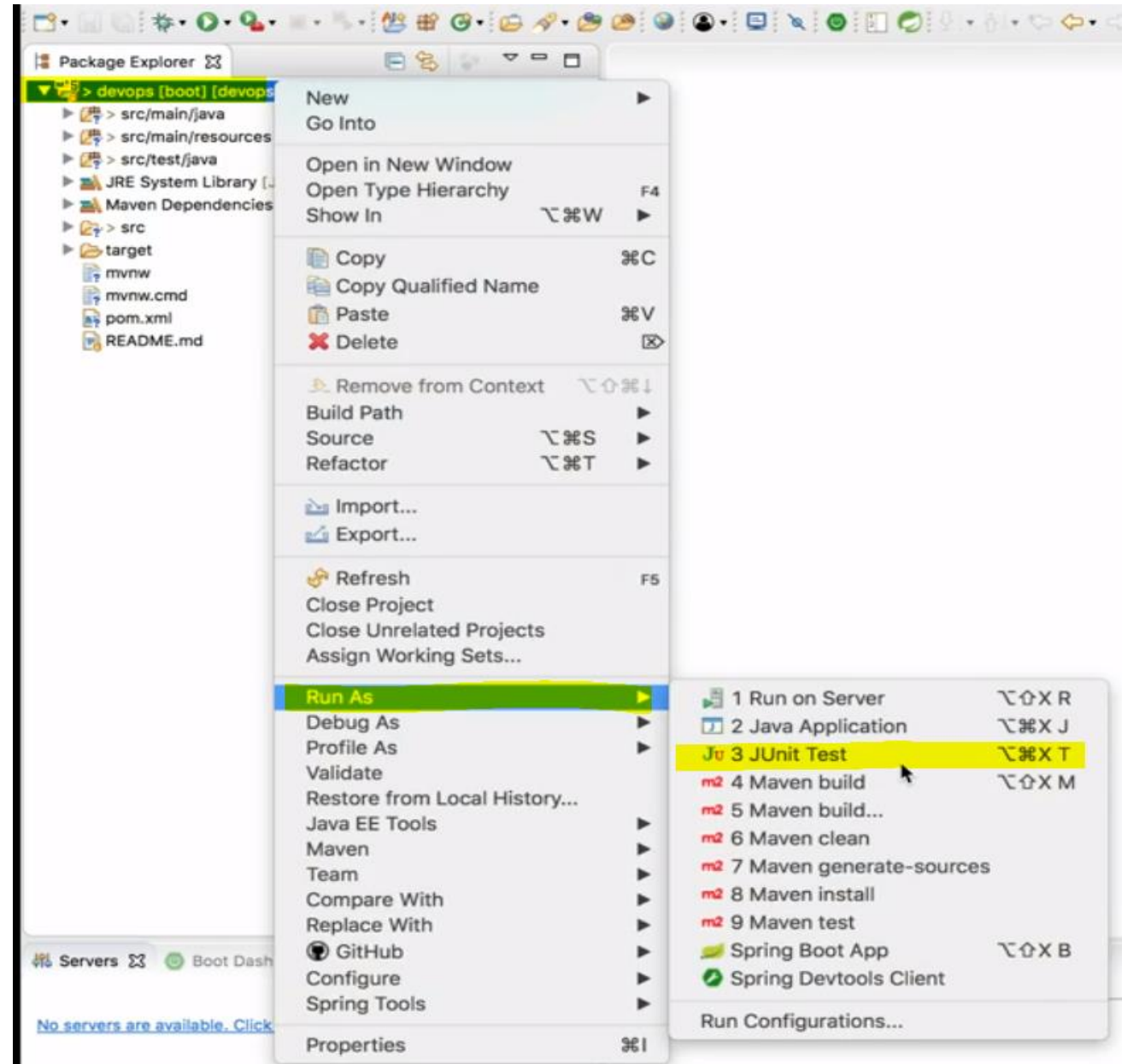
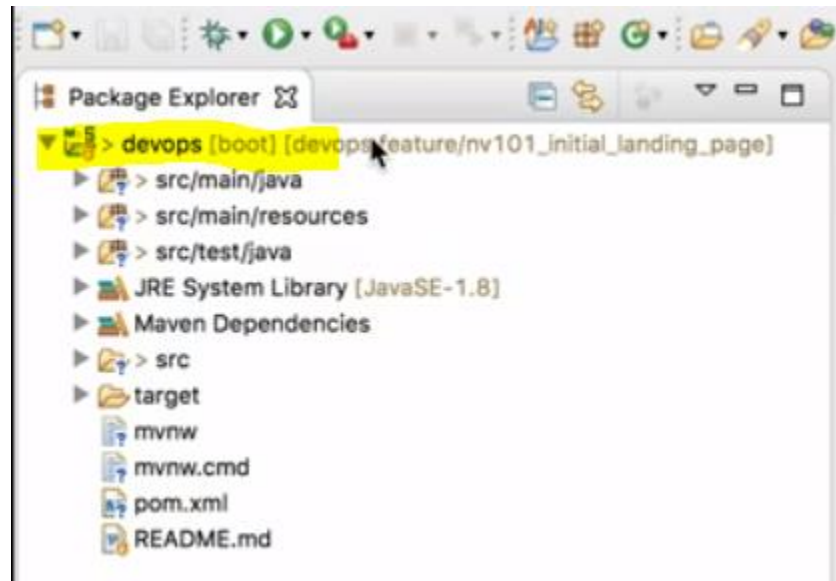
# Go to Import Maven Projects & Click Finish. Then go to >> Preference >>



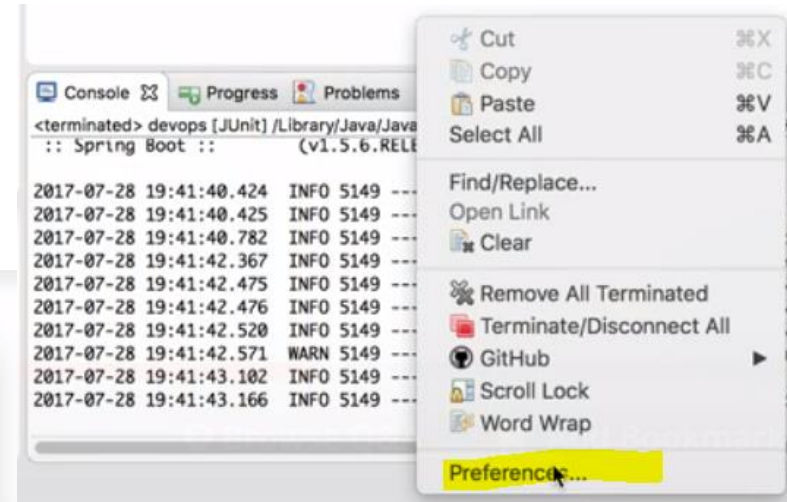
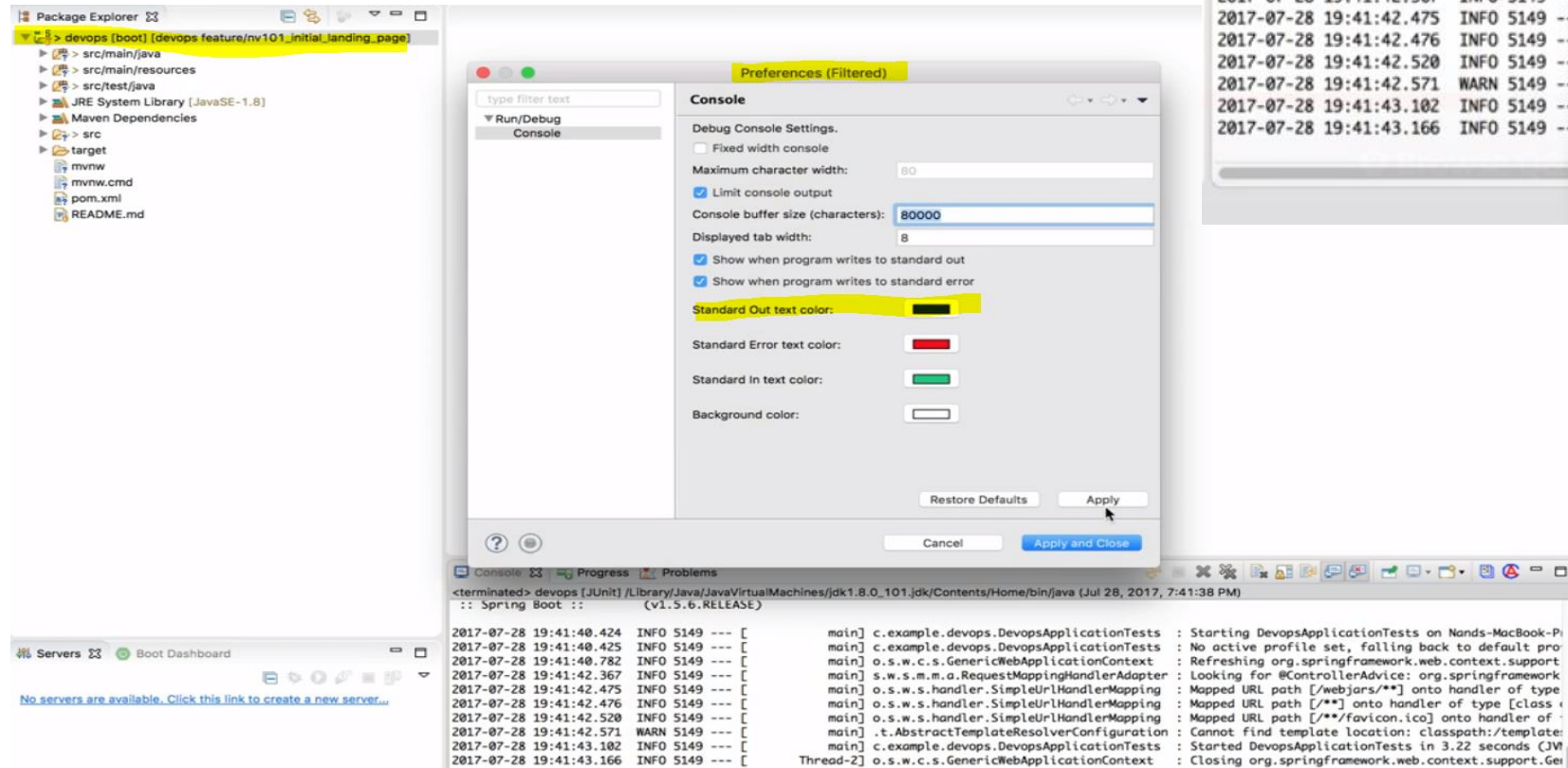
Go to preferences >> save >> Select as below



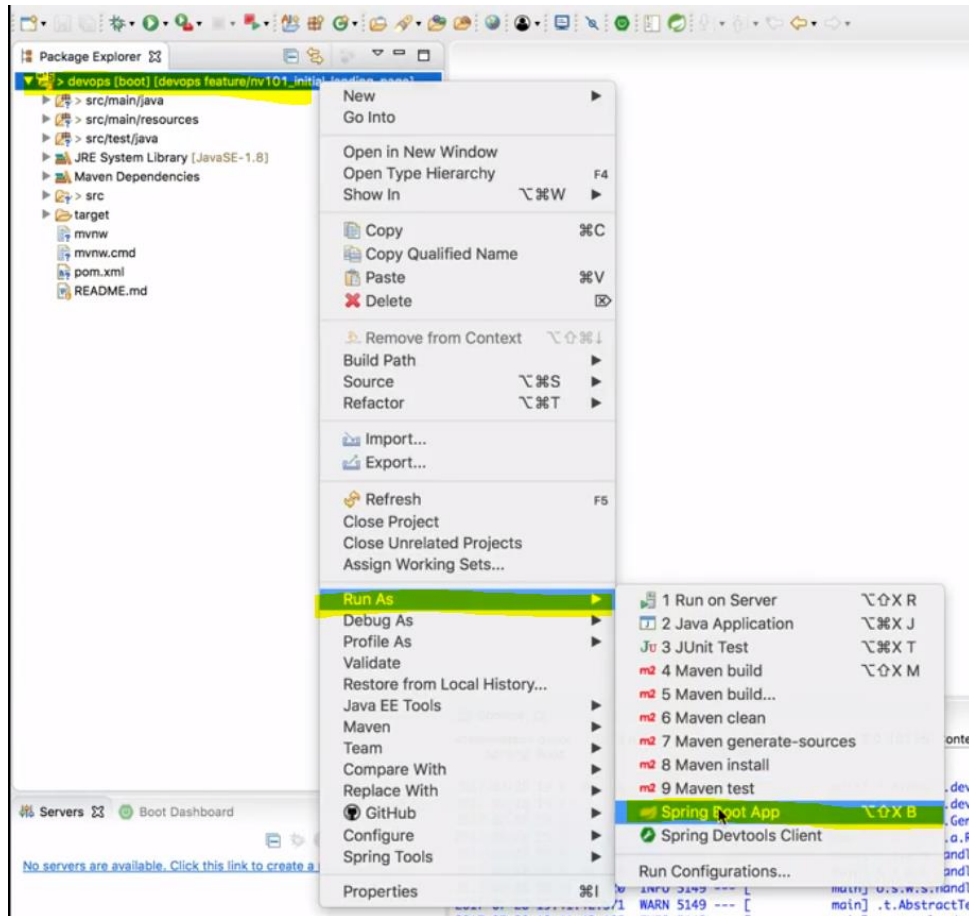
# Execute Junit Test



# Change the Junit output format color

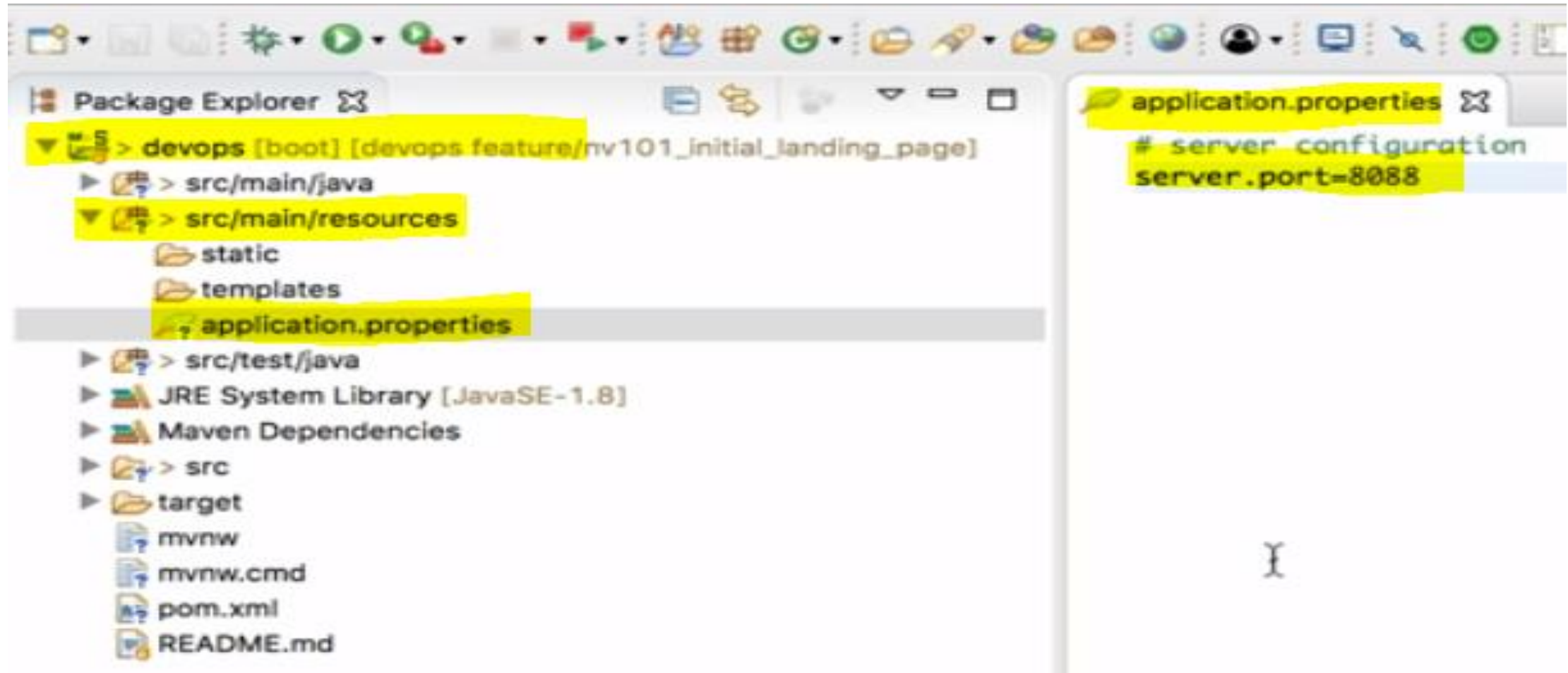


If we make any changes in the code, then we need to stop & start tomcat server to avoid that we have to run this as “Spring Boot App”. So, that changes will reflect without restarting the tomcat.



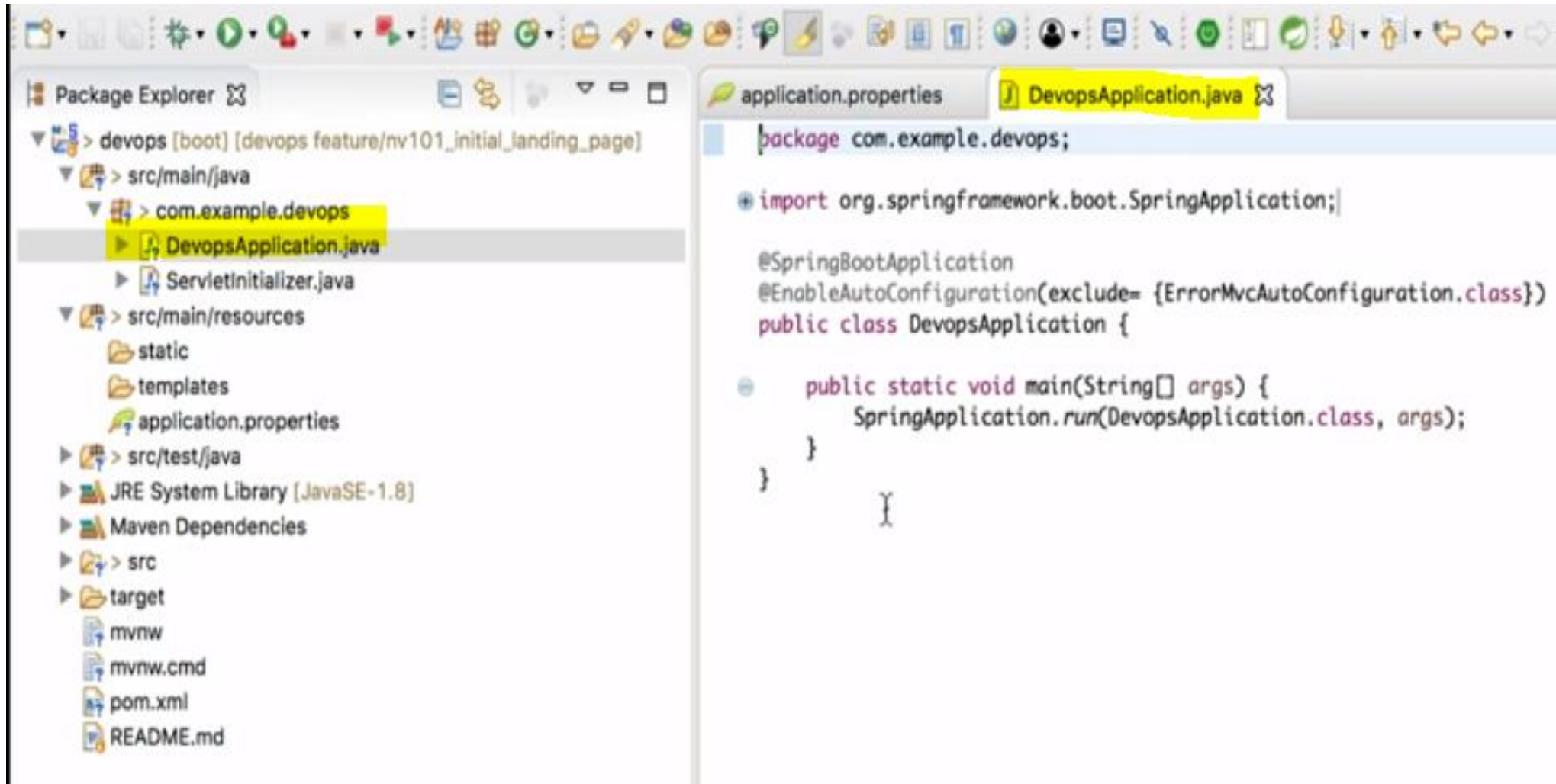


Spring Boot App & Tomcat are running port 8080 and hence we have to change the port for Spring Boot App.

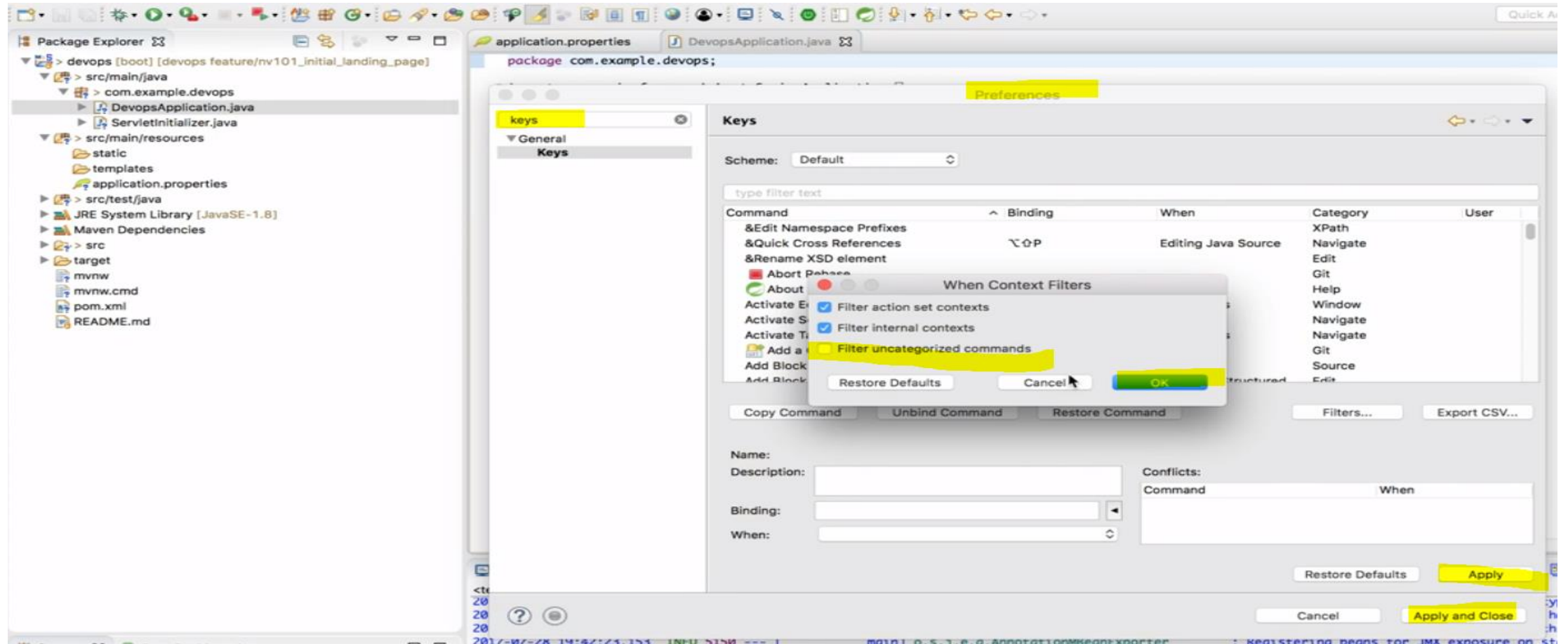




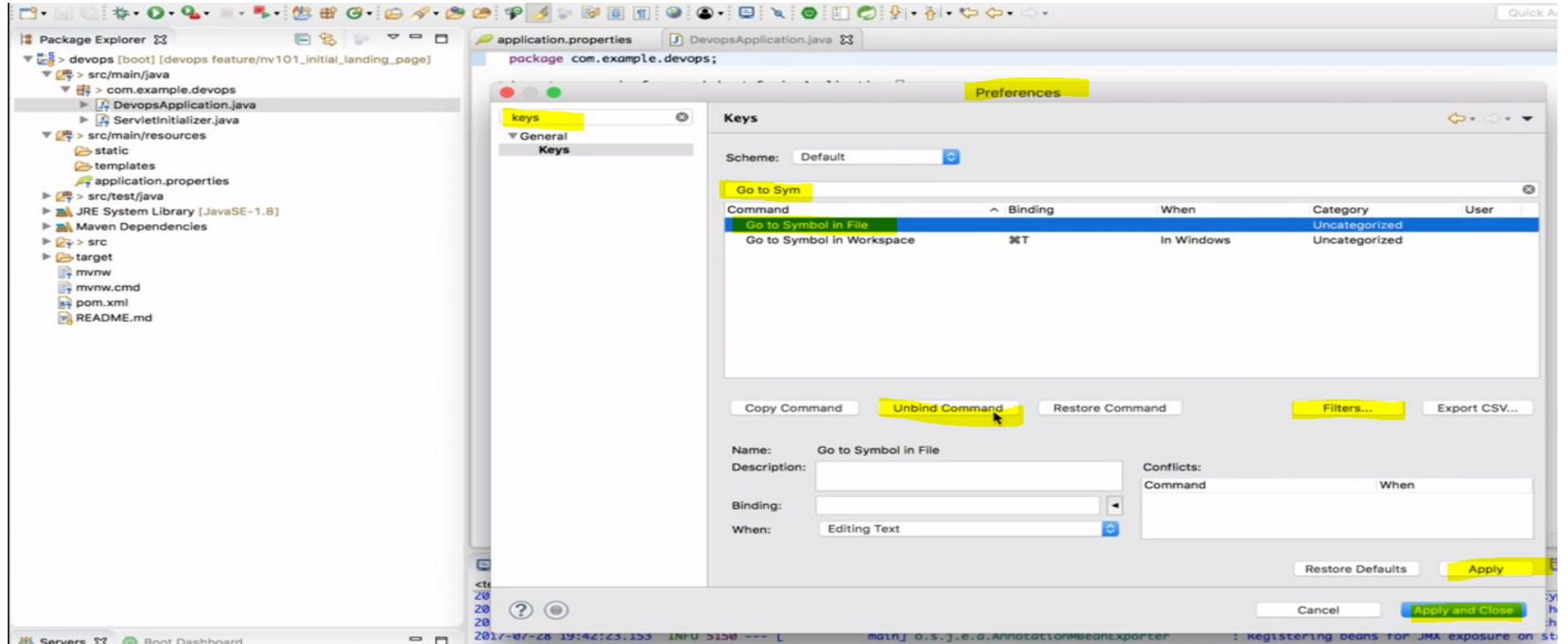
# Bug in the STS on Auto Import



Go to >> Preferences >> keys >>



Click >> Filters >> Go to Sym >> Select >> Click on Unbind Command



Based on previous steps, bug is on 3.9.0 Versions & it will be cleared.

