UNIT 3

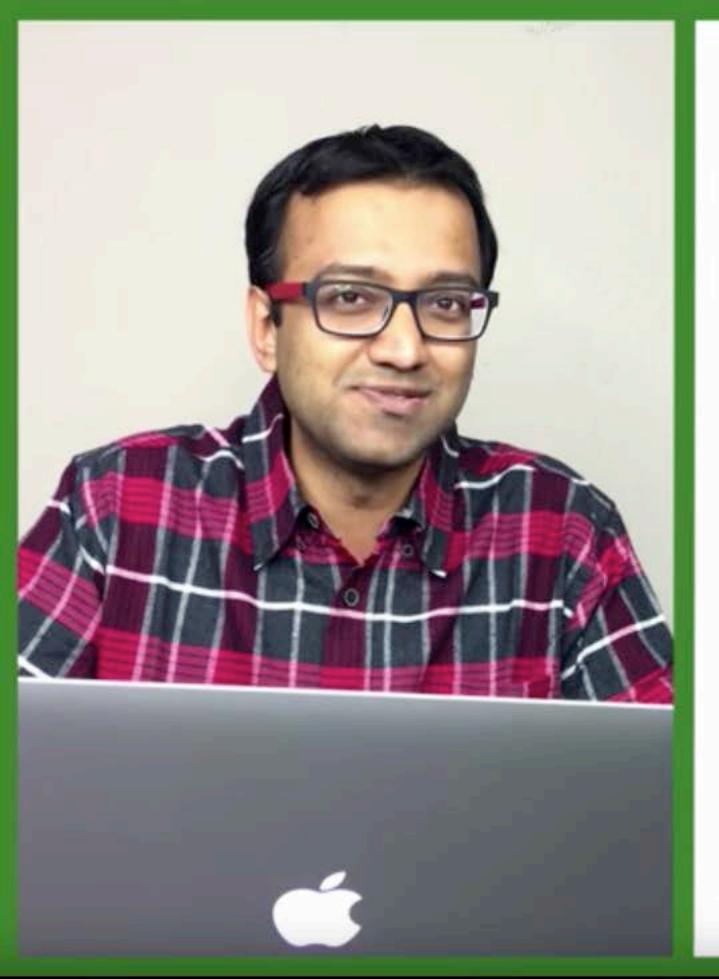
Booting Spring Boot

Spring Boot Quick Start

Java Brains

javaBrains.io





Unit 3

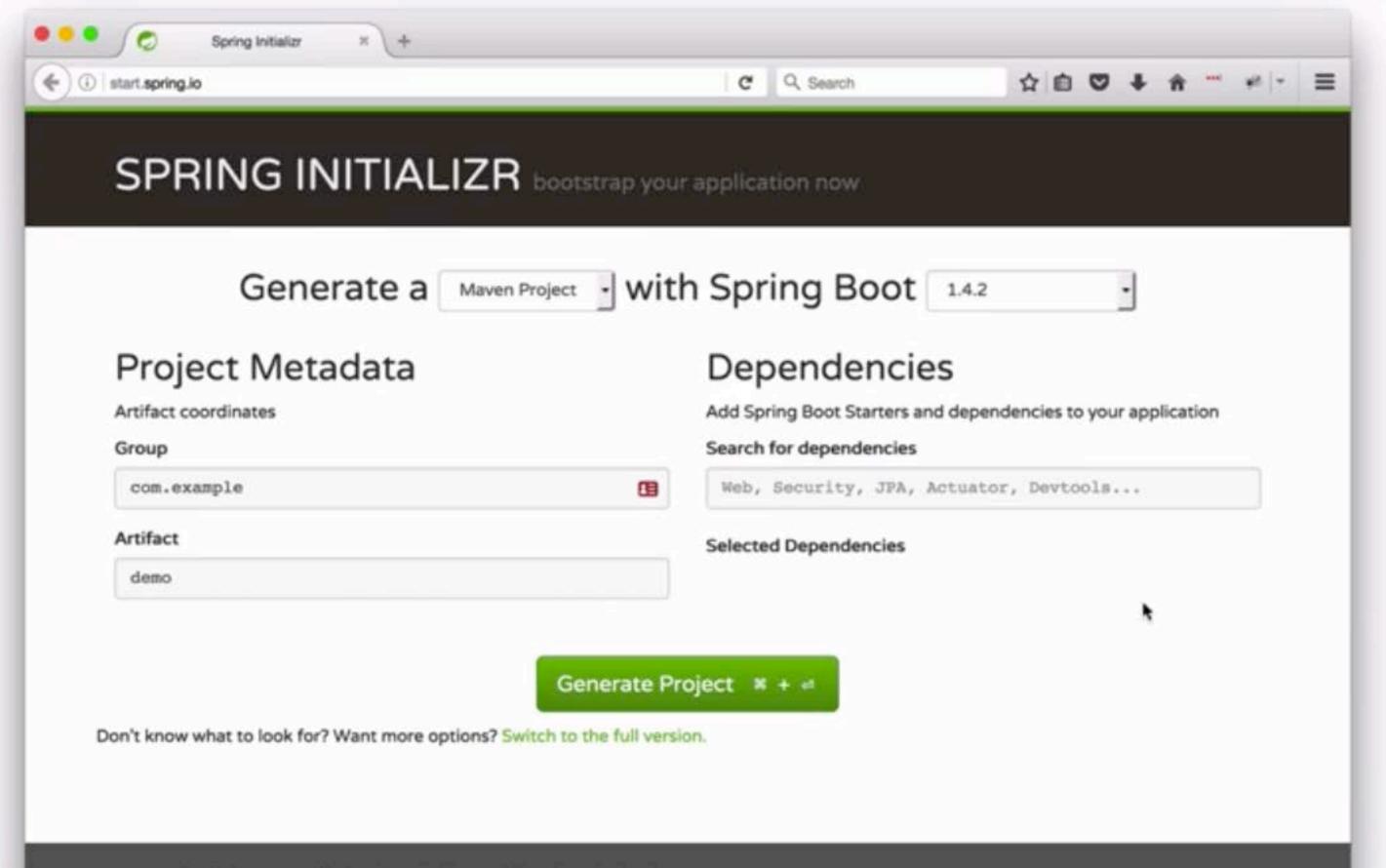
Booting Spring Boot

Spring Boot Quick Start

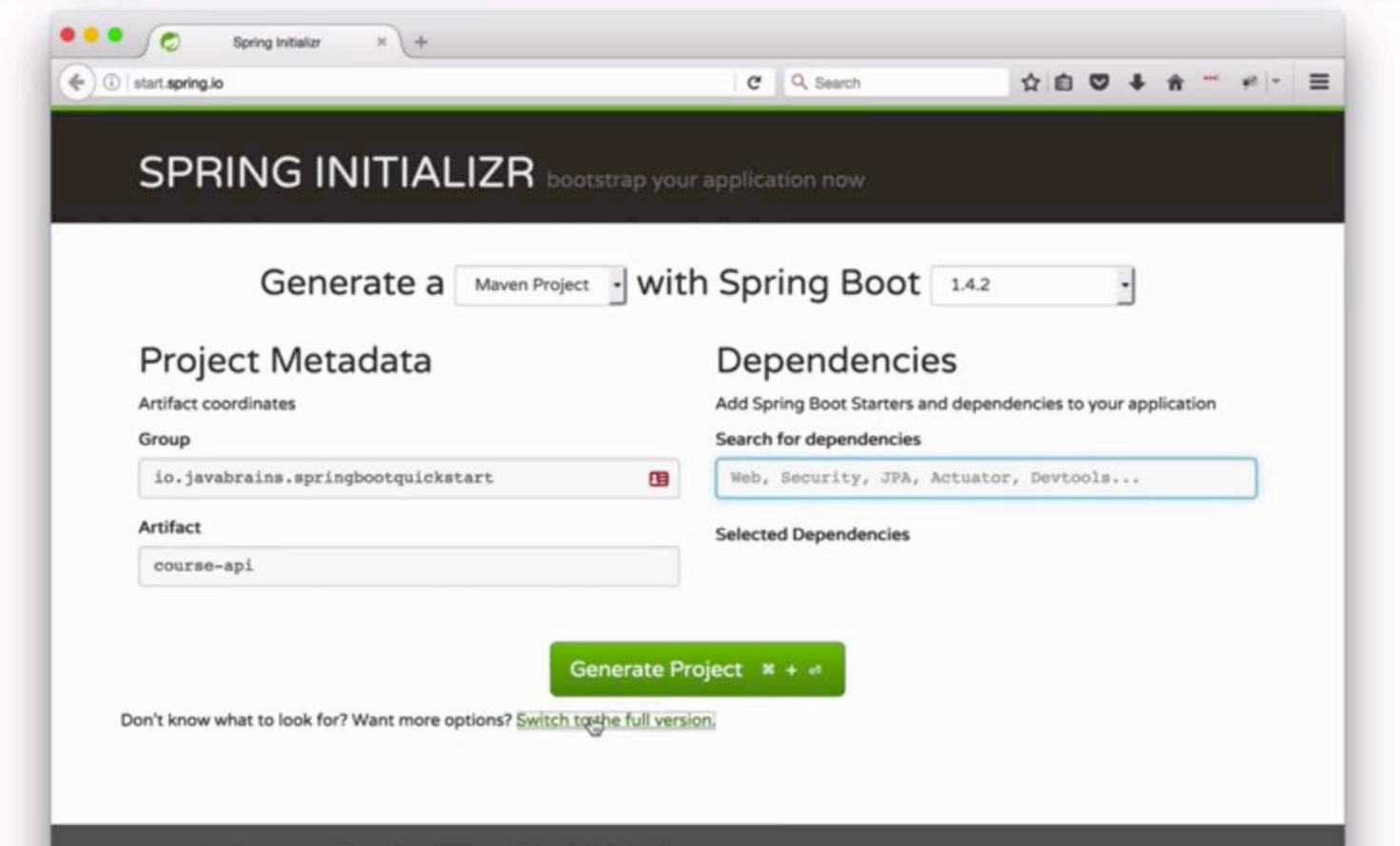
Java Brains javabrains.io

In Unit 3

- Starting a Spring Boot App
 - Spring Initializr
 - Spring Boot CLI
 - STS IDE
- Configuration

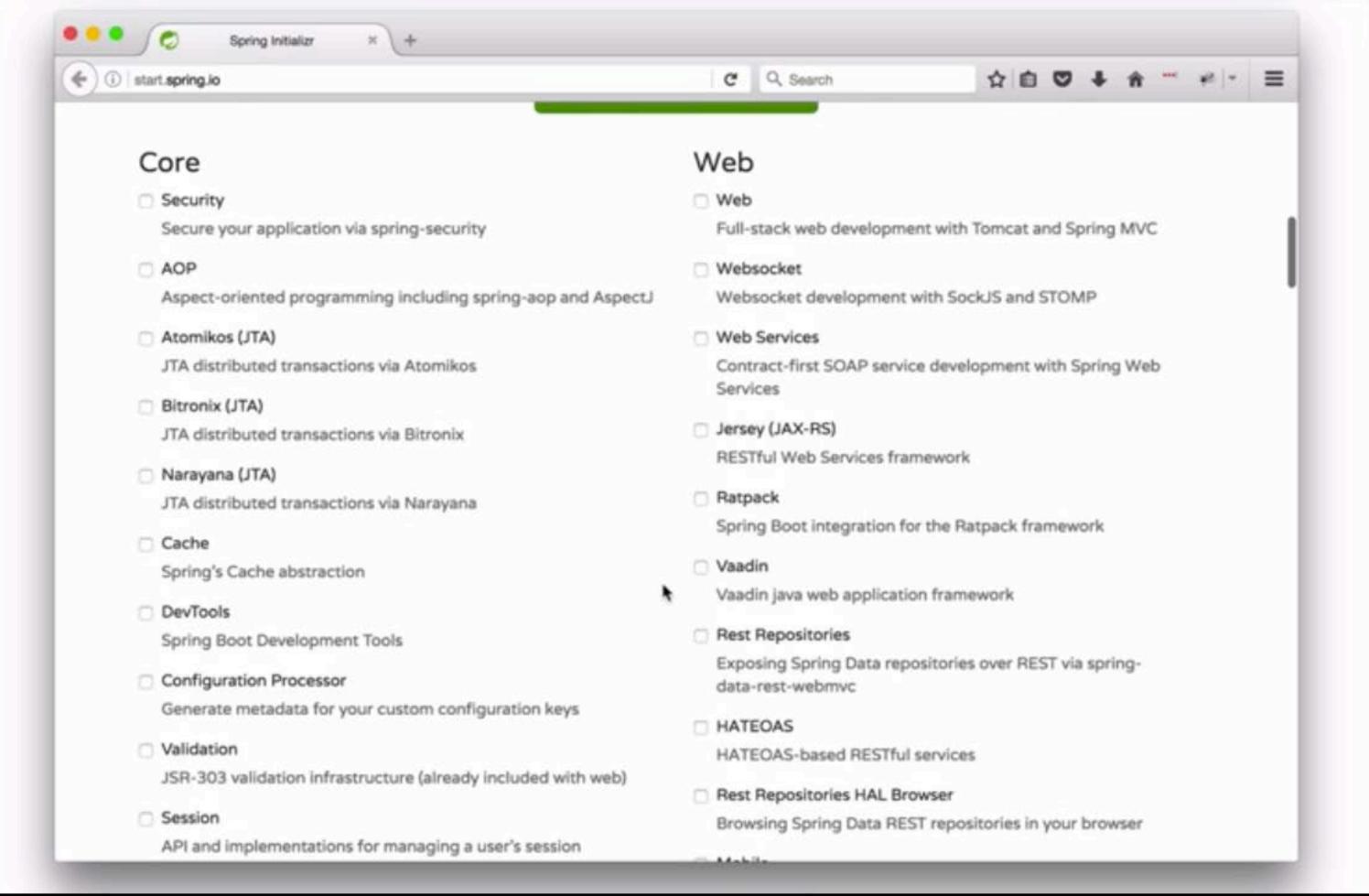


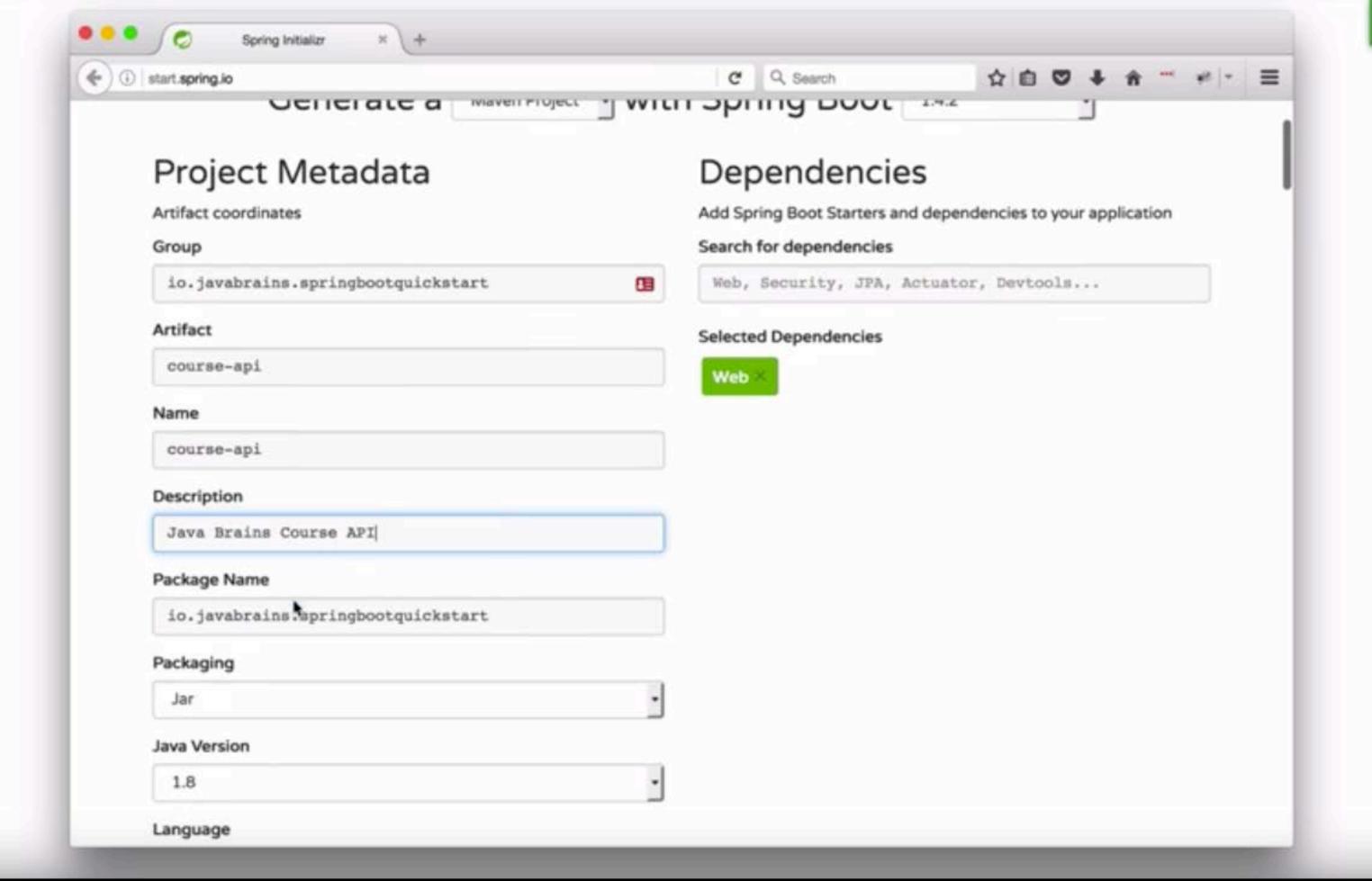
start.spring.io is powered by Spring Initialize and Pivotal Web Services

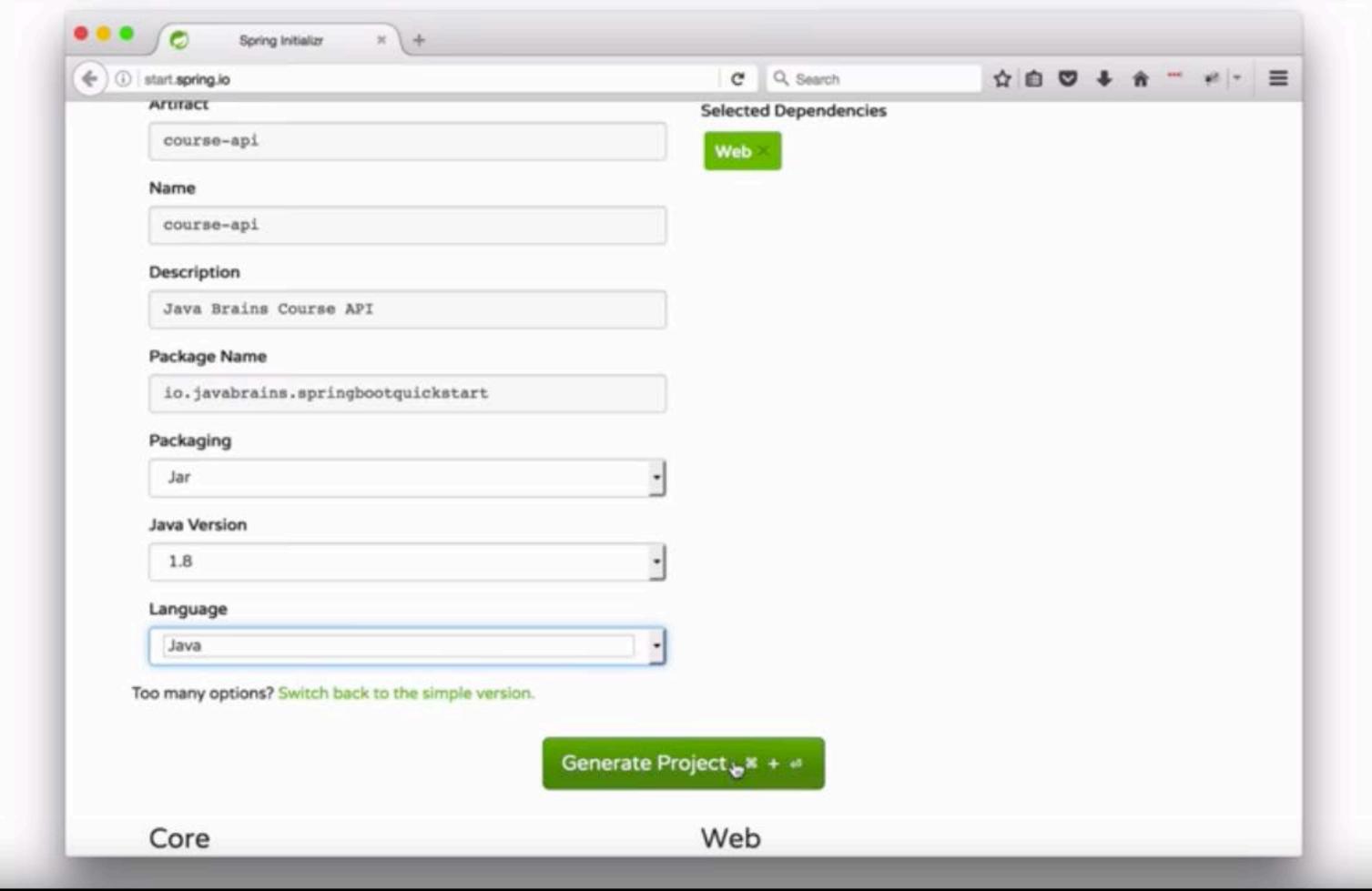


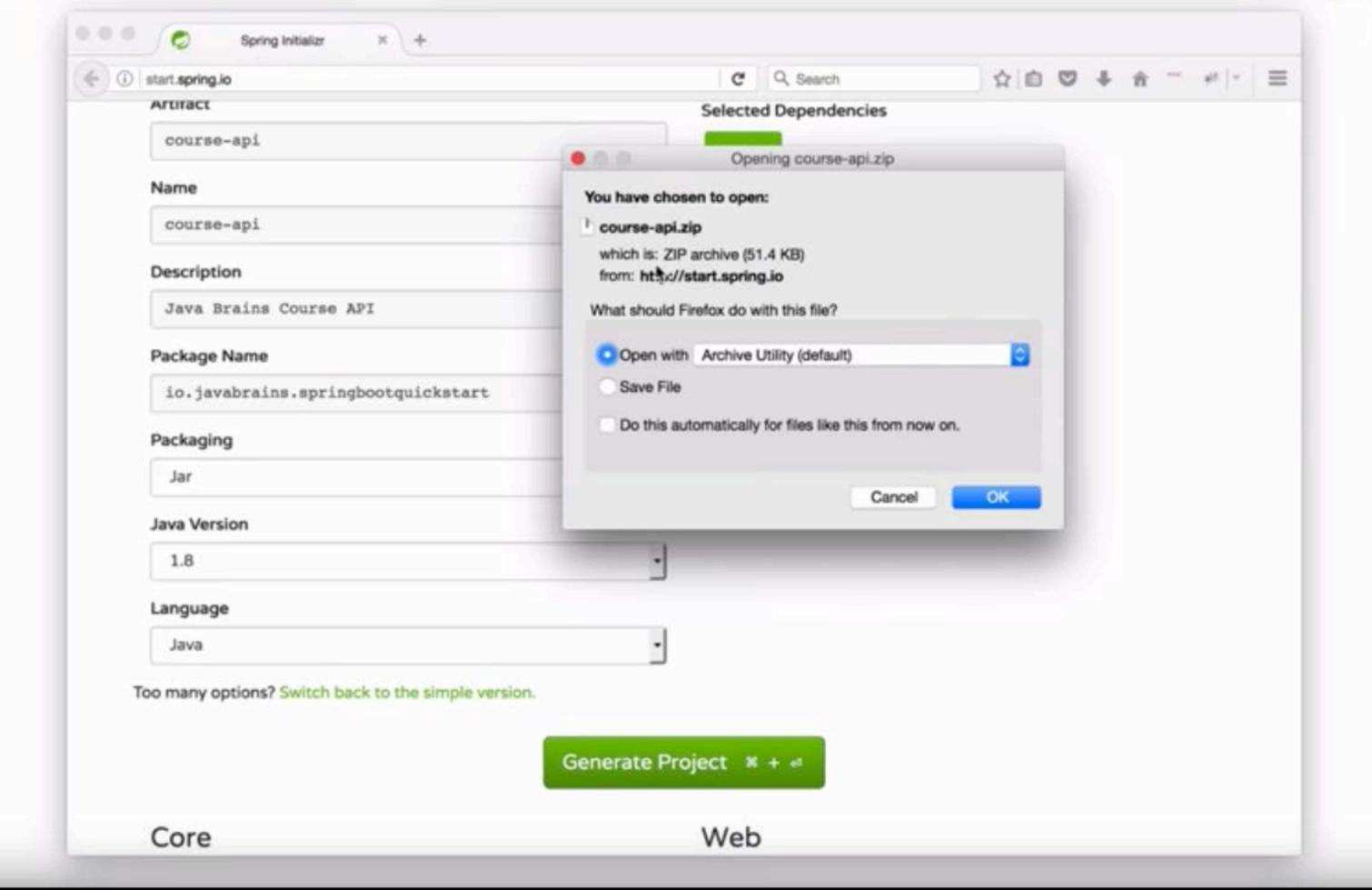
start.spring.io is powered by Spring Initialize and Pivotal Web Services

start.spring.io/#

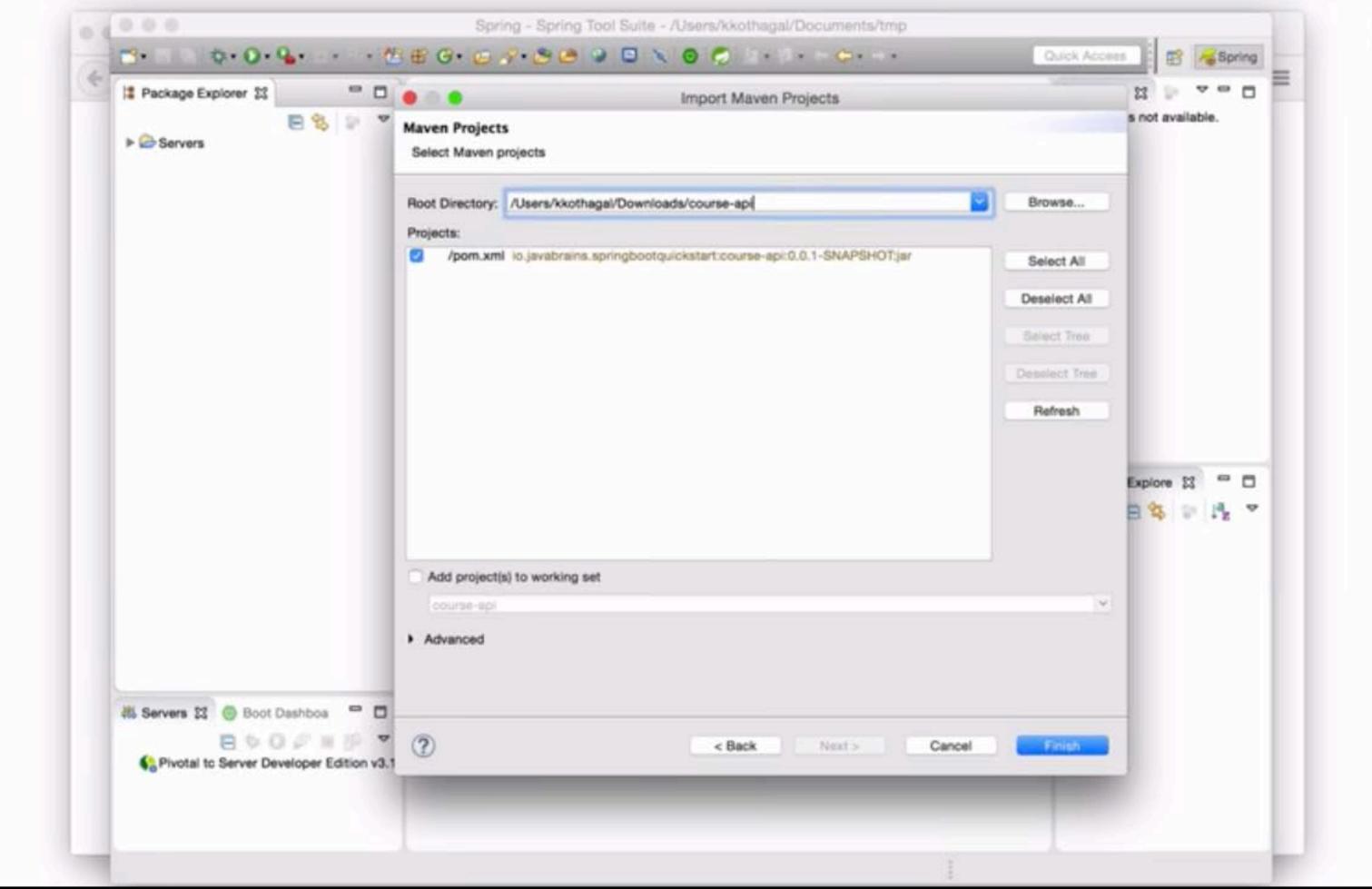


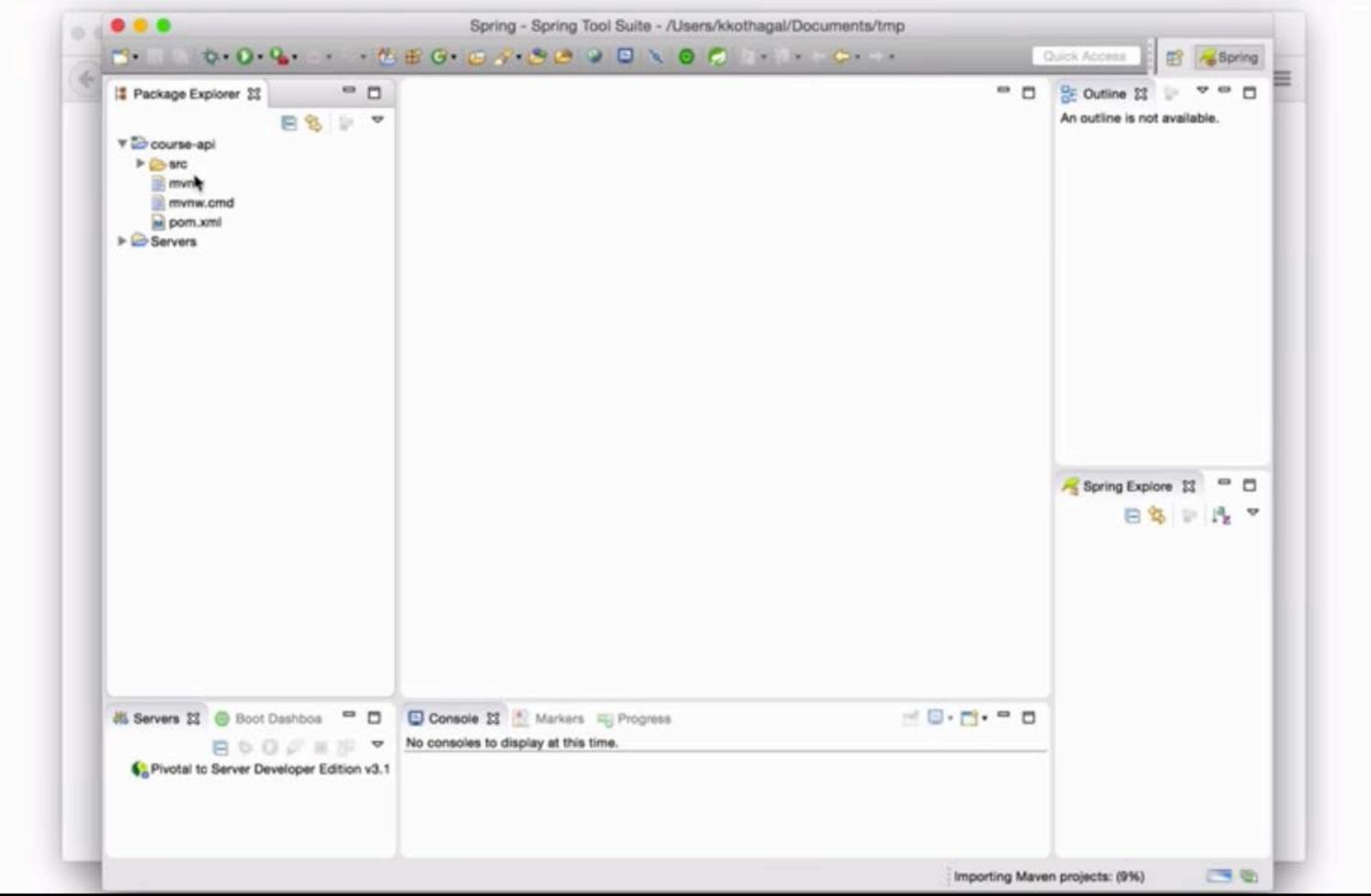


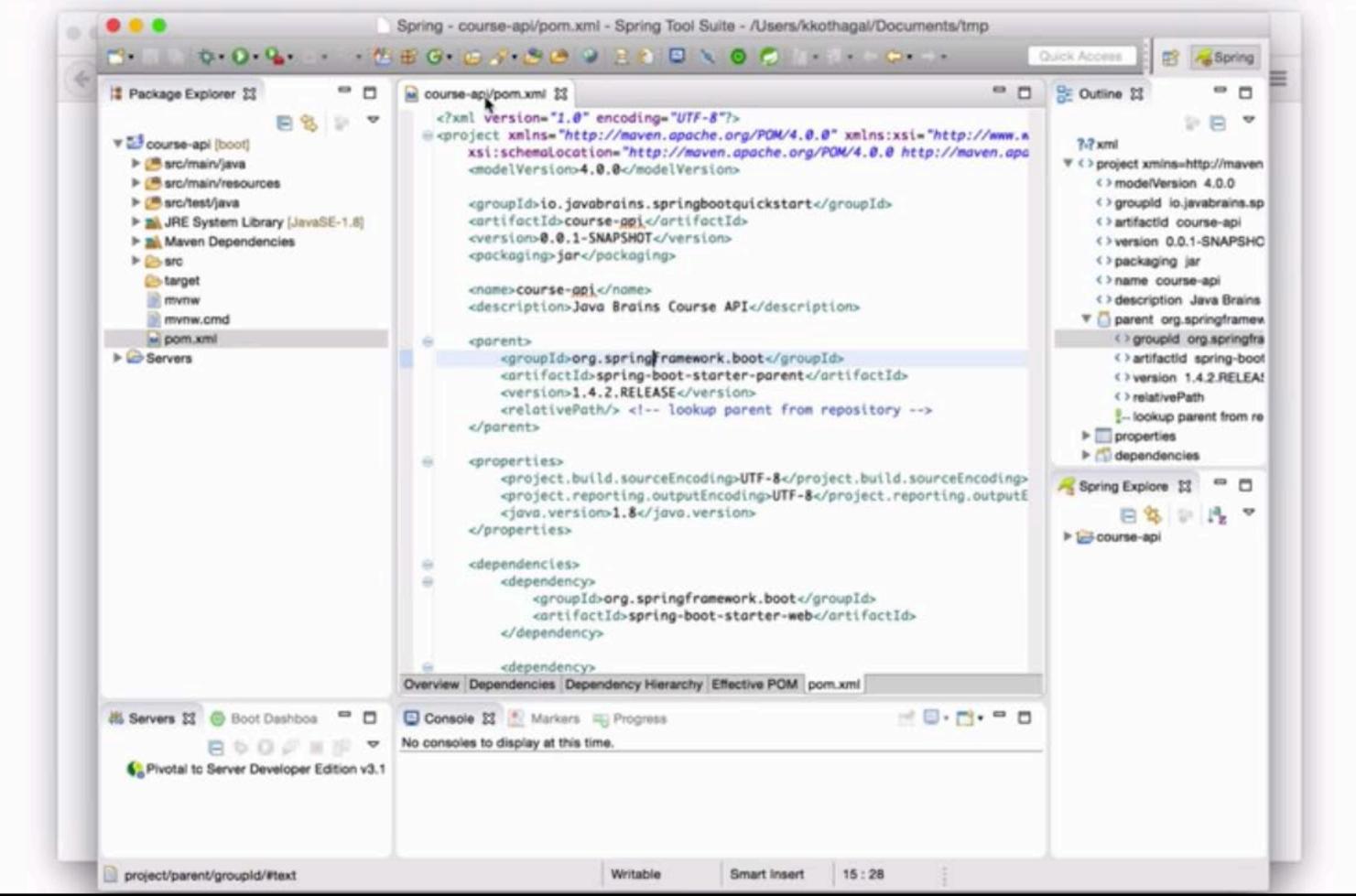




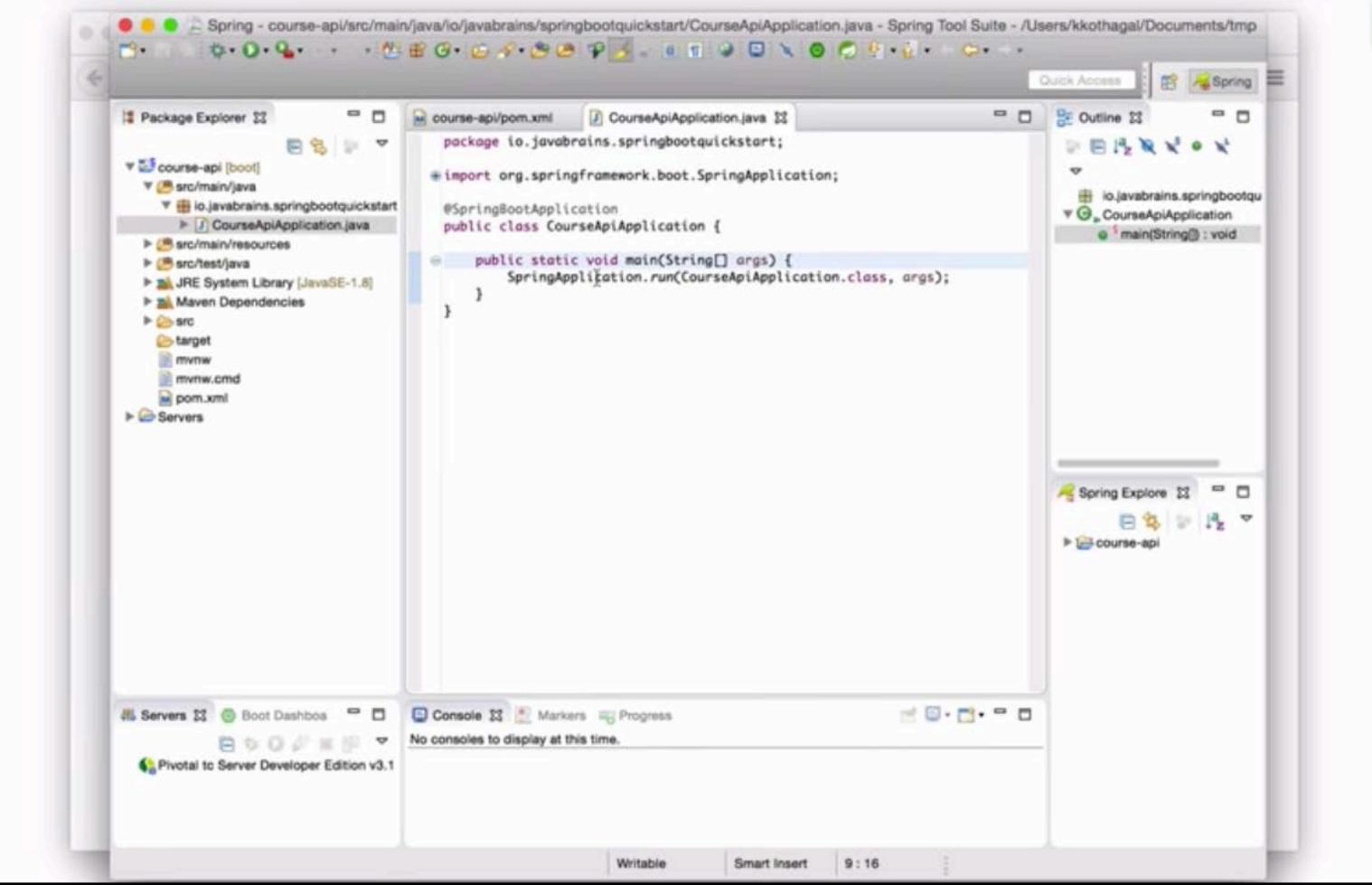
javabrains.io

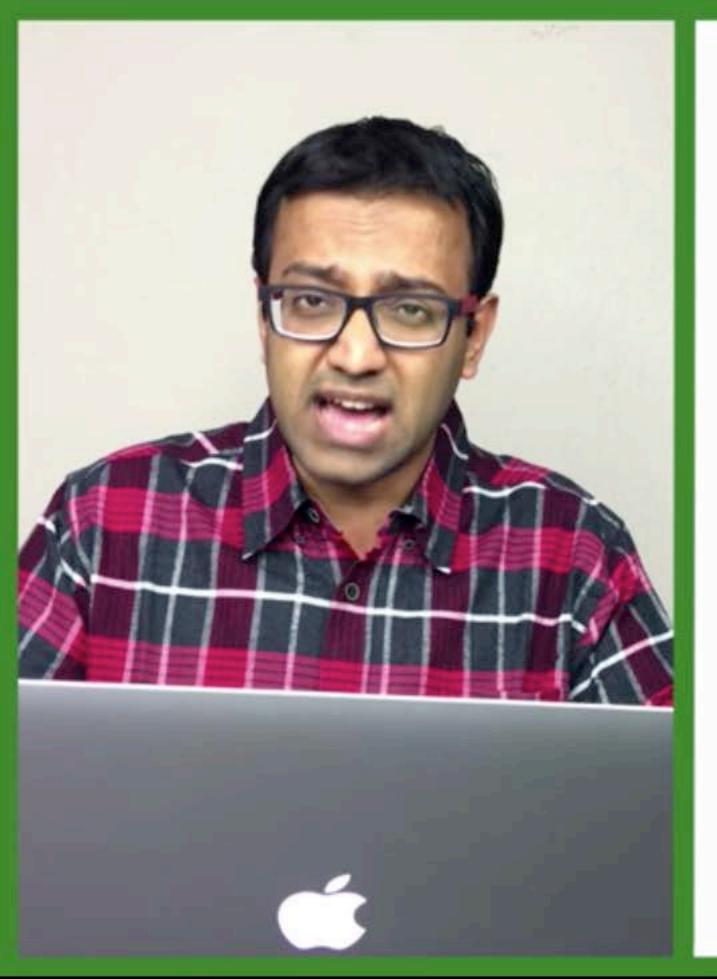






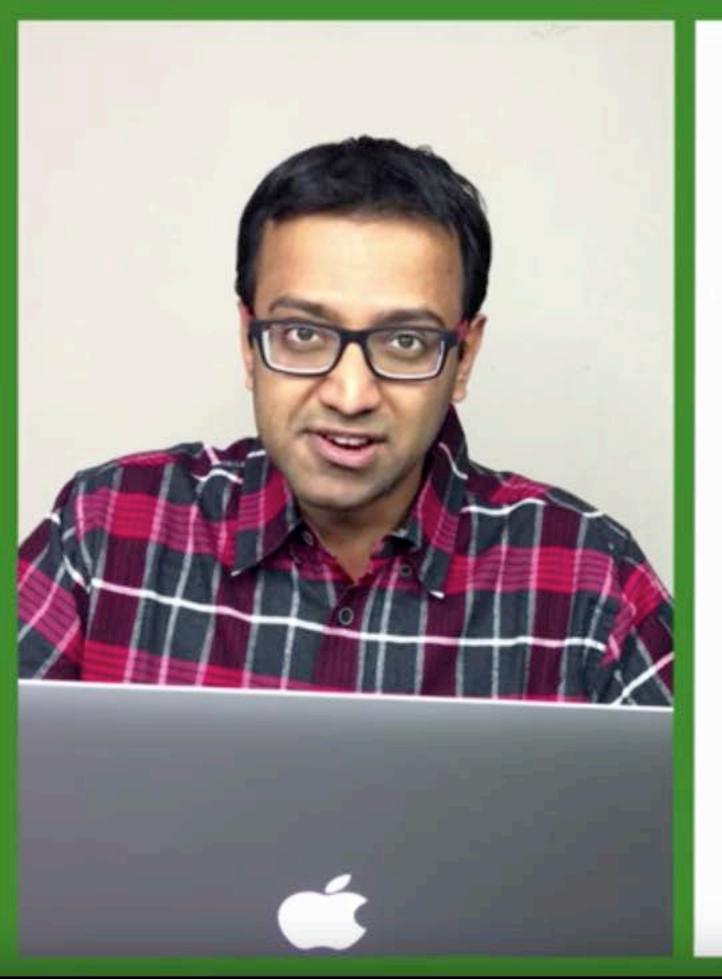
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                             Quick Access
                                                                                                                              ES Spring
    oourse-api/pom.xml 23
12
                                                                                                                                        0
            <name>course-api</name>
            <description>Java Brains Course API</description>
概
                                                                                                                                        =
            <parent>
思
                <groupId>org.springframework.boot</groupId>
                                                                                                                                        B
                <artifactId>spring-boot-starter-parent</artifactId>
                <version>1.4.2.RELEASE
                                                                                                                                        8
                <relativePath/> <!-- lookup parent from repository -->
            </parent>
                                                                                                                                        B
            cproperties>
                eproject.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
                cproject.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
                <java.version>1.8</java.yersion>
            properties>
            <dependencies>
                <dependency>
                    <groupId>org.springframework.boot</groupId>
                    <artifactId>spring-boot-starter-web</artifactId>
                </dependency>
                <dependency>
                    <groupId>org.springframework.boot</groupId>
                    <artifactId>spring-boot-starter-test</artifactId>
                    <scope>test</scope>
                </dependency>
            </dependencies>
            <br/>
<br/>
d>
                <plugins>
                    <plugin>
                       <groupId>org.springframework.boot</groupId>
                       <artifactId>spring-boot-mayen-plugin</artifactId>
                    </plugin>
                </plugins>
            k/build>
        </project>
    Overview Dependencies Dependency Hierarchy Effective POM pom.xml
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                                                                          Smart Insert
                                                                                        47:13
                                                                                                     http://download.ec...11531/content.jar
```





Spring Initializr

http://start.spring.io



Spring Boot CLI



10.2 Installing the Spring Boot CLI

The Spring Boot CLI is a command line tool that can be used if you want to quickly prototype with Spring. It allows you to run Groovy scripts, which means that you have a familiar Java-like syntax, without so much boilerplate code.

You don't need to use the CLI to work with Spring Boot but it's definitely the quickest way to get a Spring application off the ground.

10.2.1 Manual installation

You can download the Spring CLI distribution from the Spring software repository:

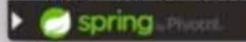
- spring-boot-cli-1.4.2.RELEASE-bin.zip
- spring-boot-cli-1.4.2.RELEASE-bin.tar.gz

Cutting edge snapshot distributions are also available.

Once downloaded, follow the INSTALL.txt instructions from the unpacked archive. In summary: there is a spring script (spring.bat for Windows) in a bin/ directory in the .zip file, or alternatively you can use java -jar with the .jar file (the script helps you to be sure that the classpath is set correctly).

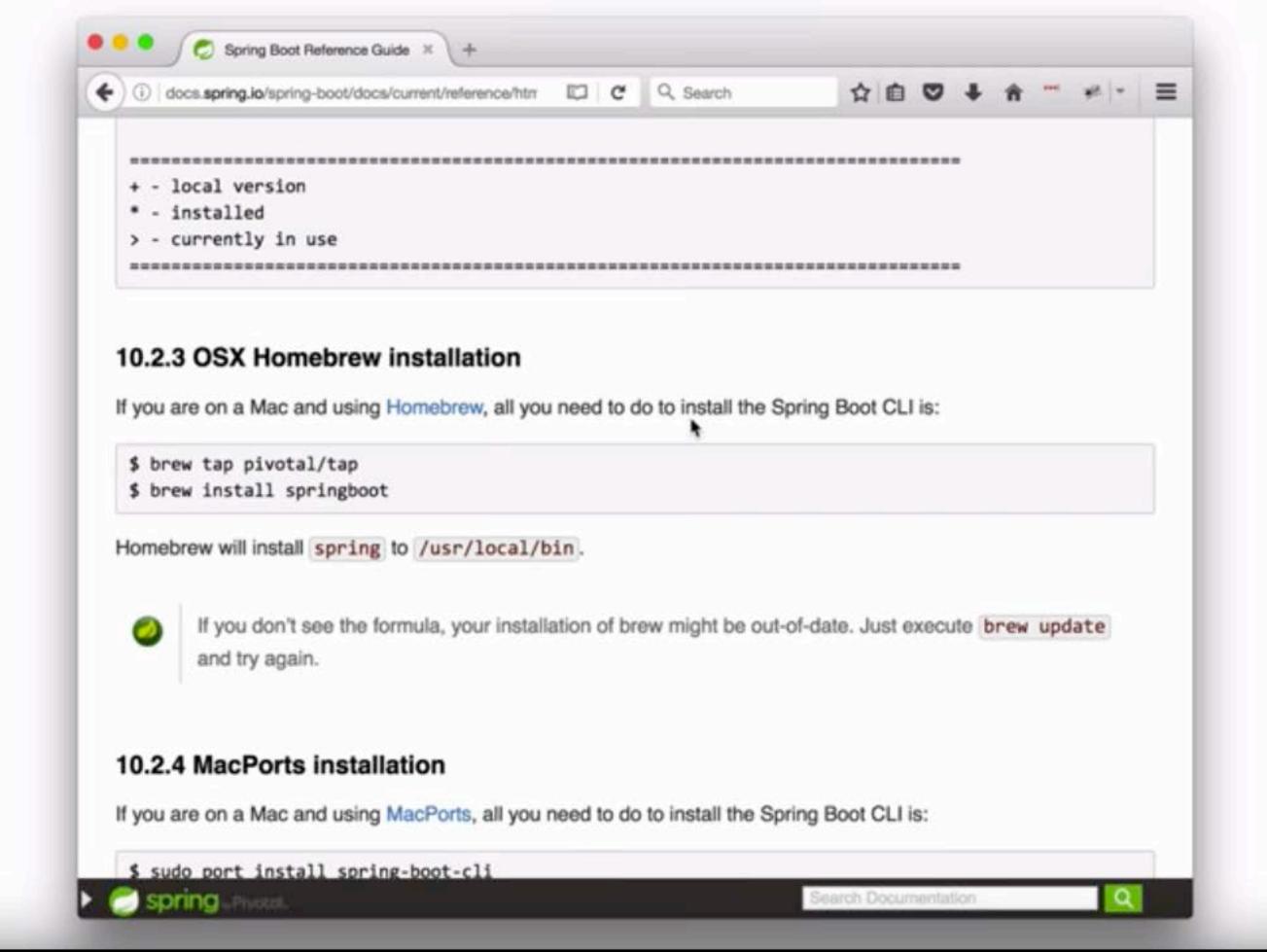
10.2.2 Installation with SDKMAN!

SDKMAN! (The Software Development Kit Manager) can be used for managing multiple versions of various binary









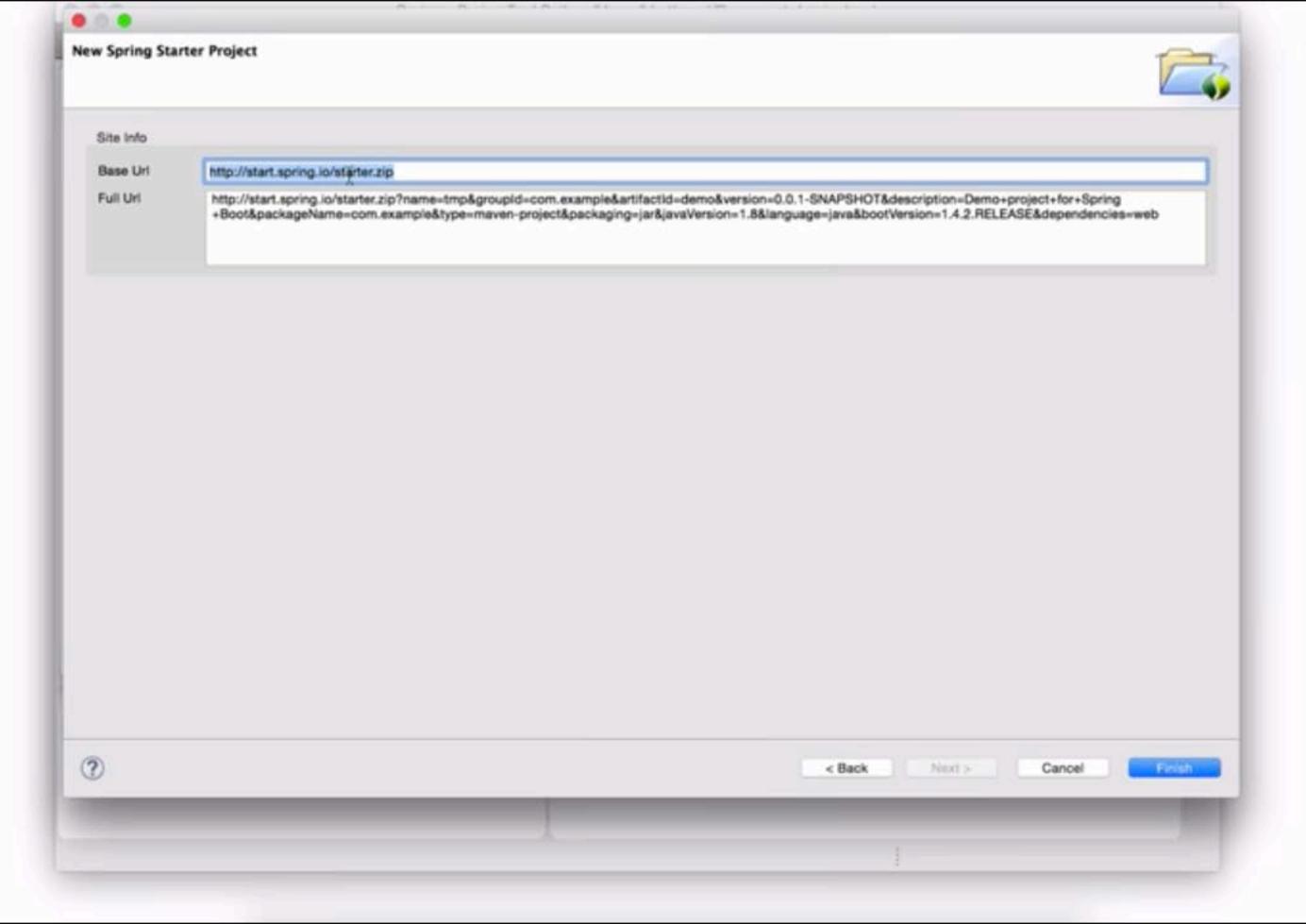
000				
New Spring Sta	arter Project			
Name	demo			
Use default	location			
Location	/Users/kkothagal/Documents/springboot/de			Browse
Type:	Maven Project	Packaging:	Jar 📴	
Java Version:	1.8	Language:	Java	
Group	com.example			
Artifact	demo			
Version	0.0.1-SNAPSHOT			
Description	Demo project for Spring Boot			
Package	com.example			
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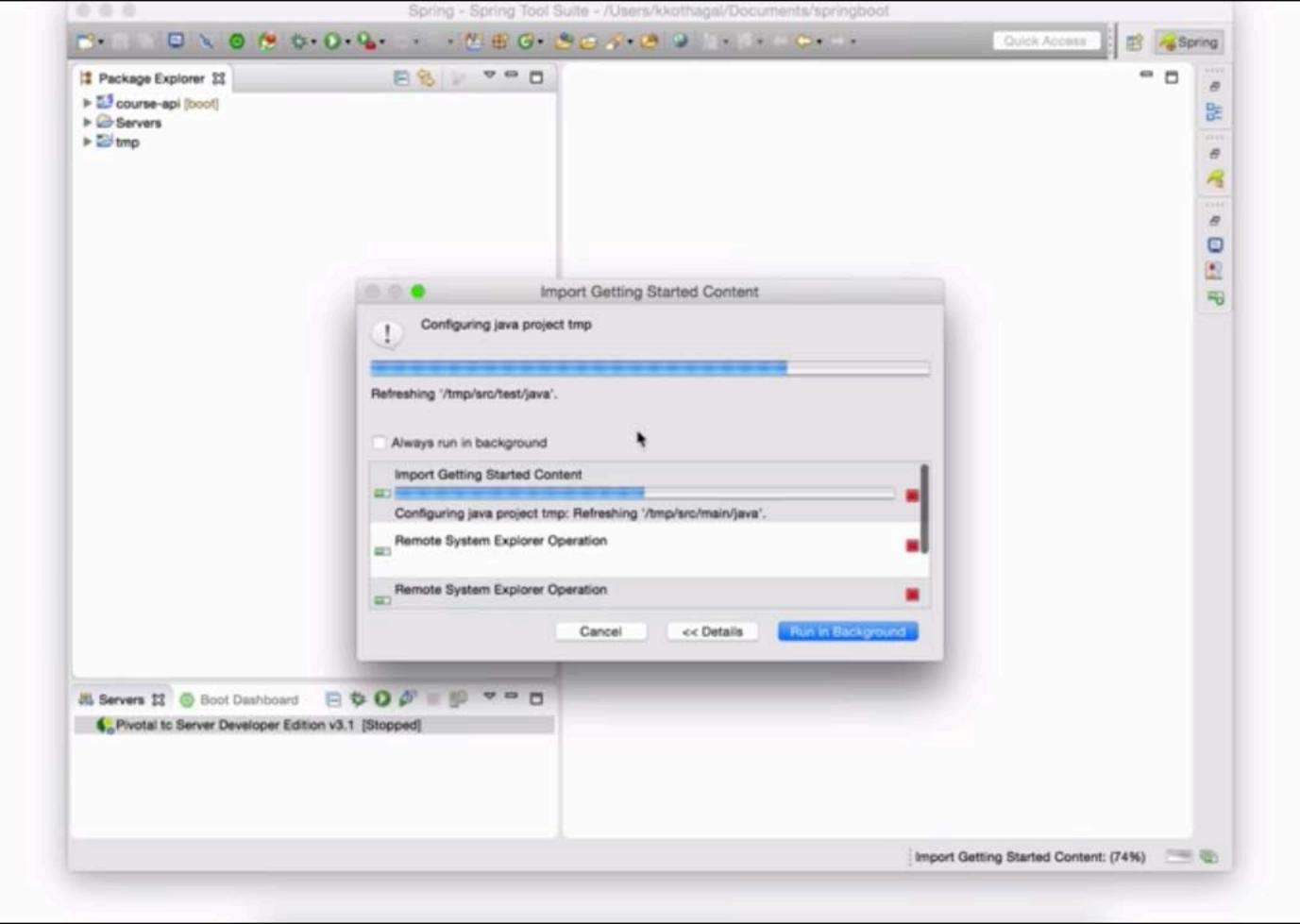
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Java Version:	1.8	Language:	Java 📋		
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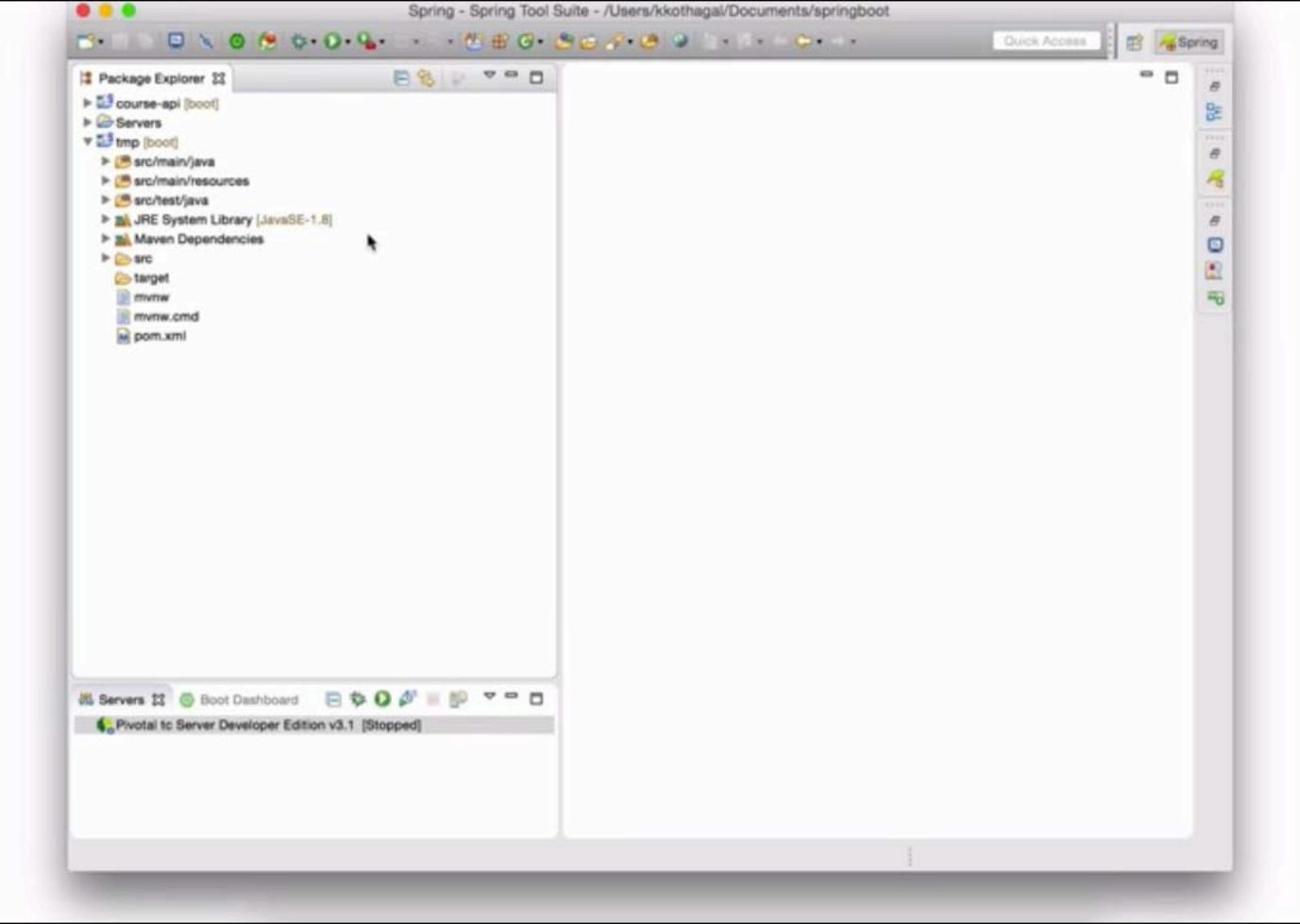
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ew Spring Starter Project				1
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Cloud Circuit Breaker				
Cloud Cluster				
Cloud Config				
Cloud Contract				
Cloud Core				
Cloud Data Flow				
Cloud Discovery				
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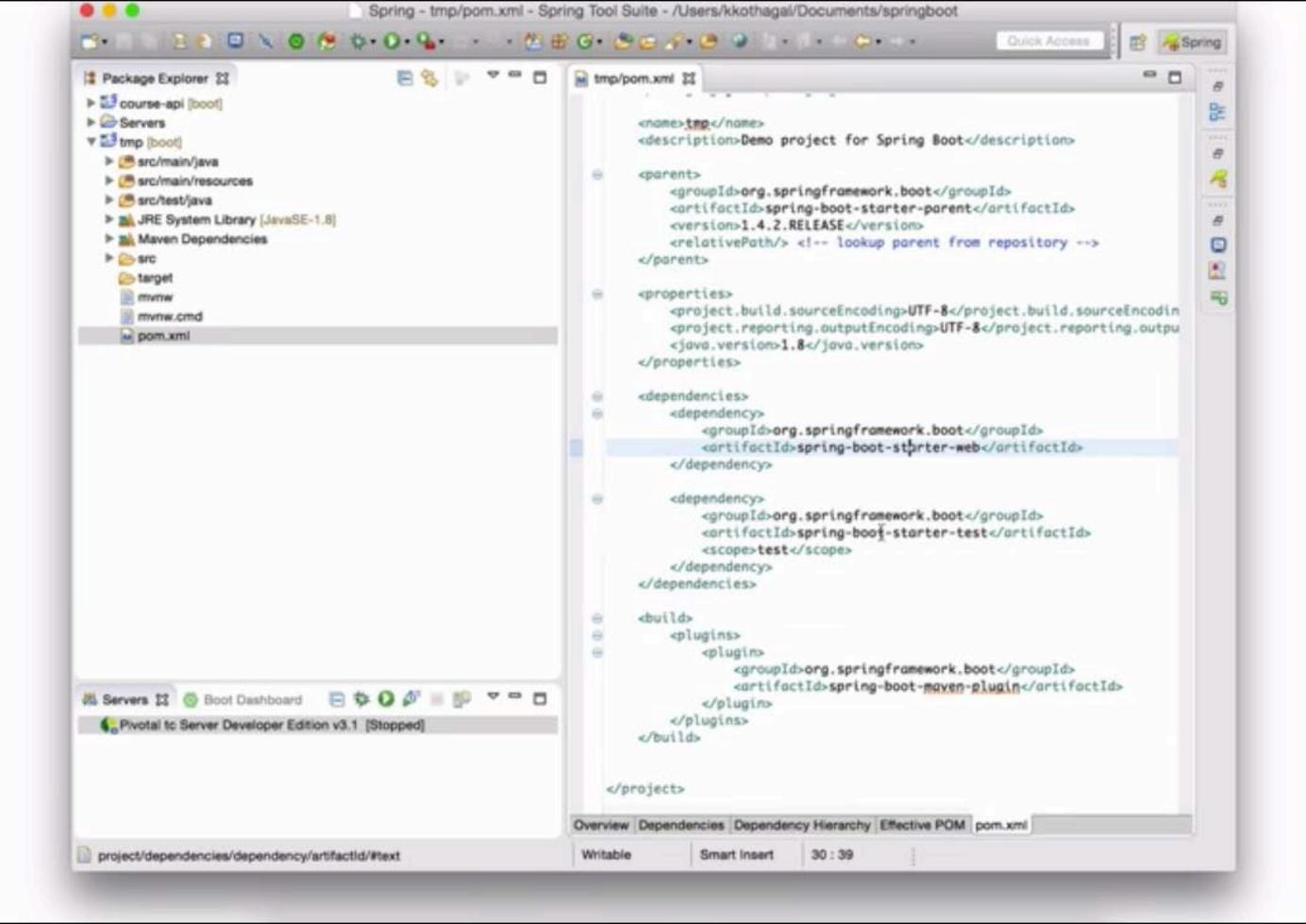
0.0					
New Spring Starter Project					
Cloud AWS					
▶ Cloud Circuit Breaker					
➤ Cloud Cluster					
► Cloud Config					- 1
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Cloud Core					
Cloud Data Flow					
Cloud Discovery					
► Cloud Messaging					
▶ Cloud Routing					
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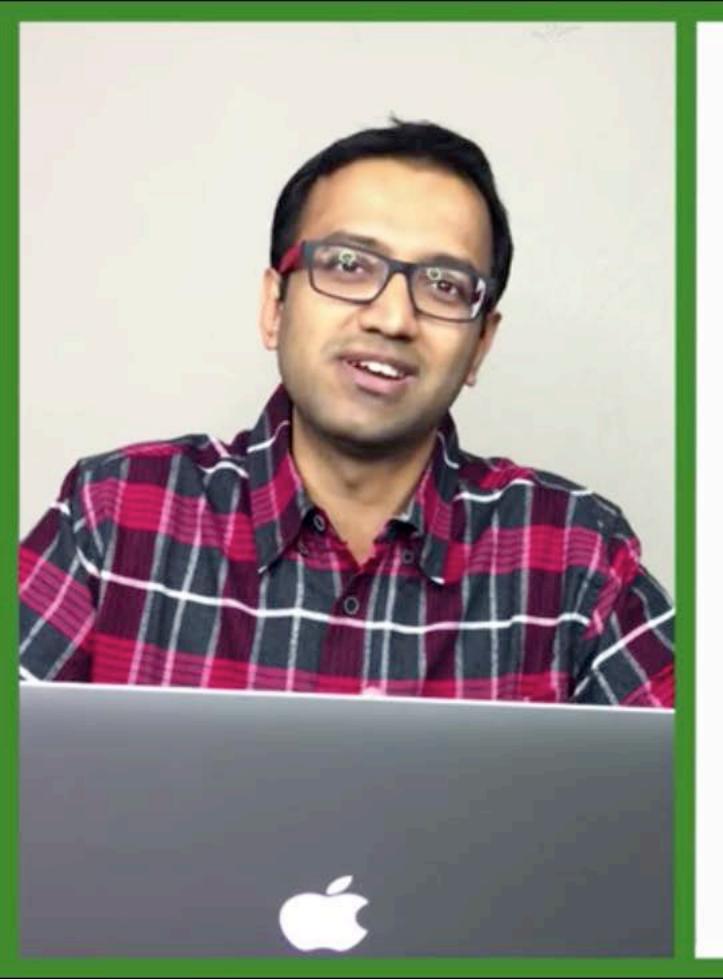






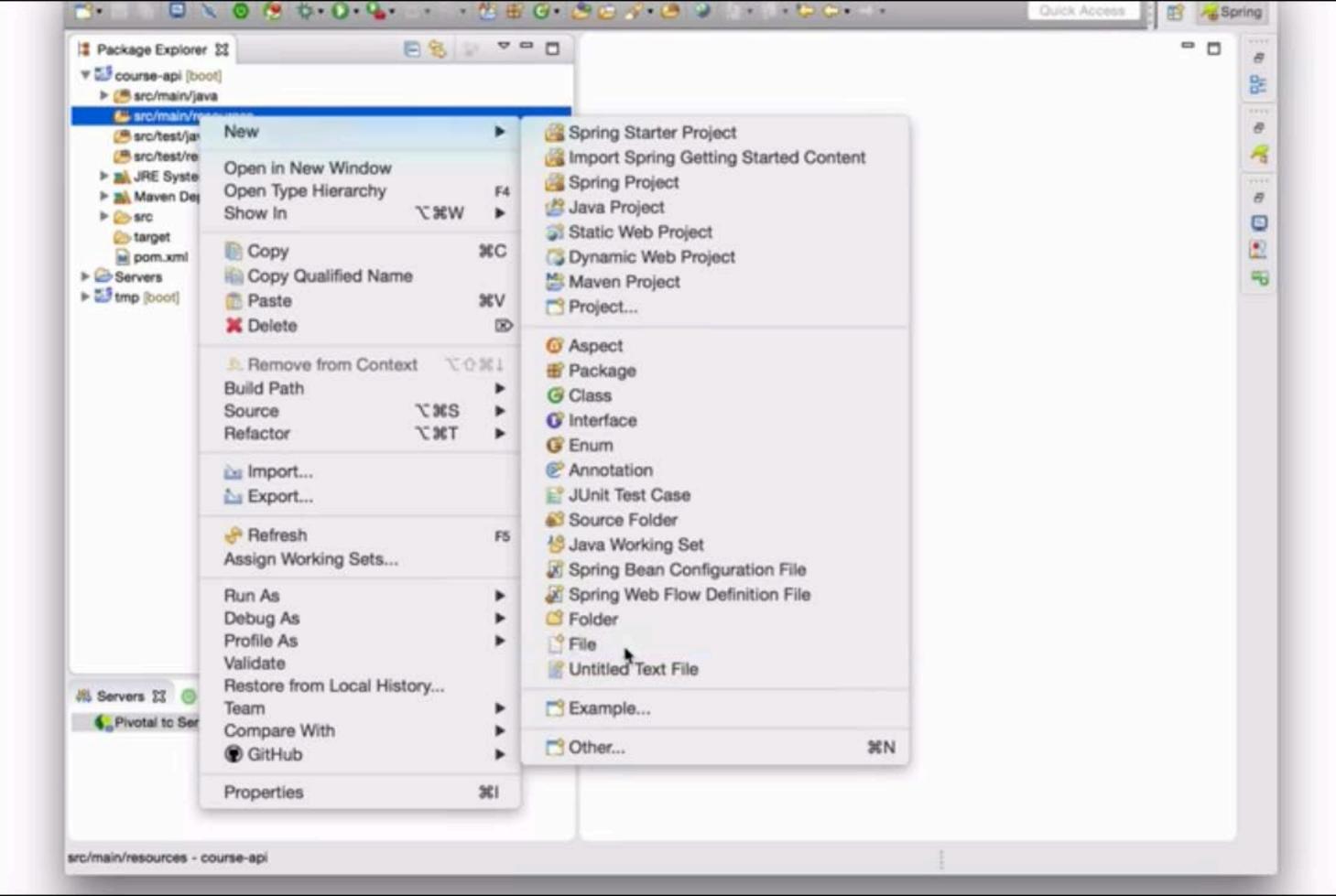




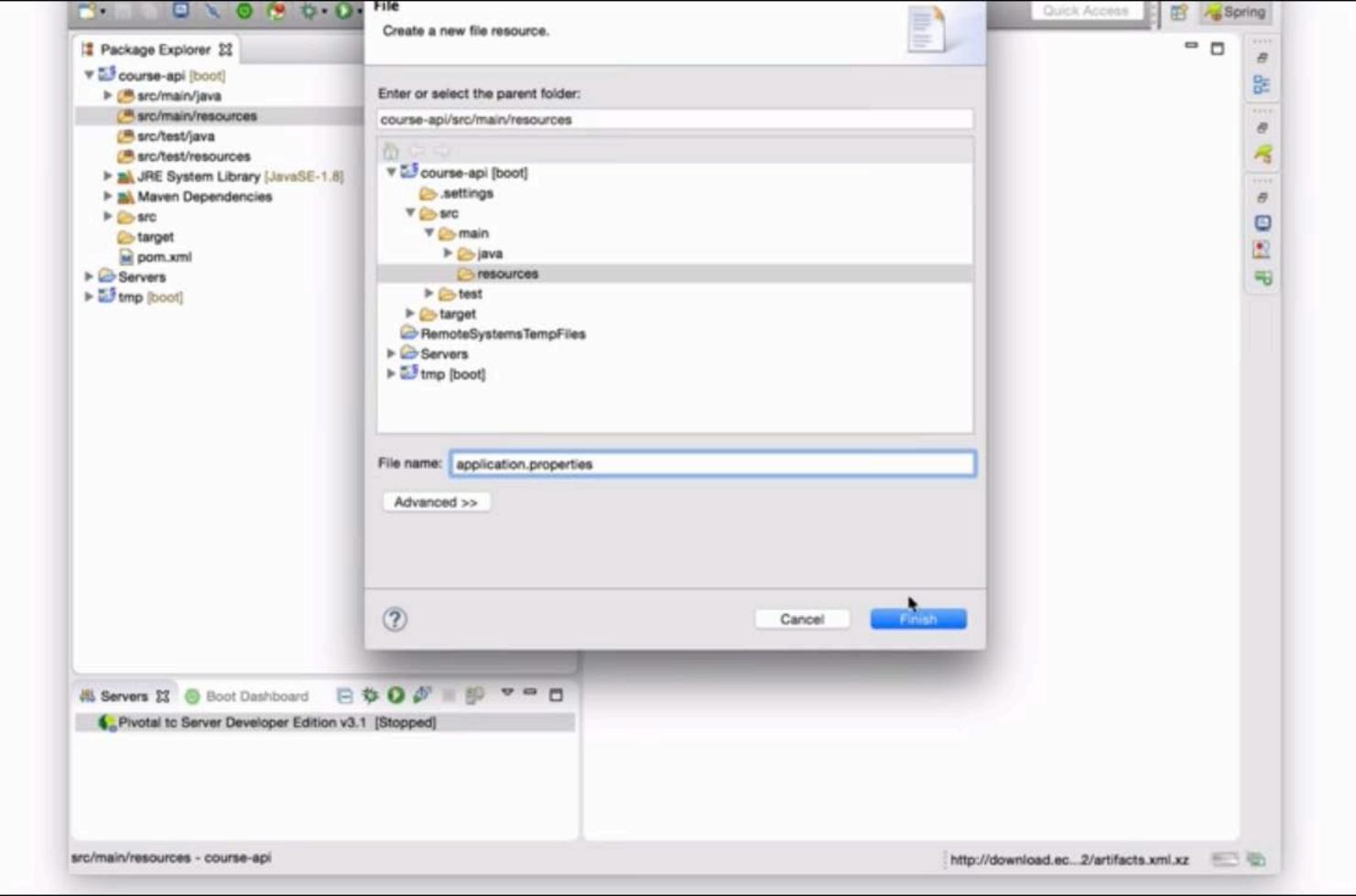


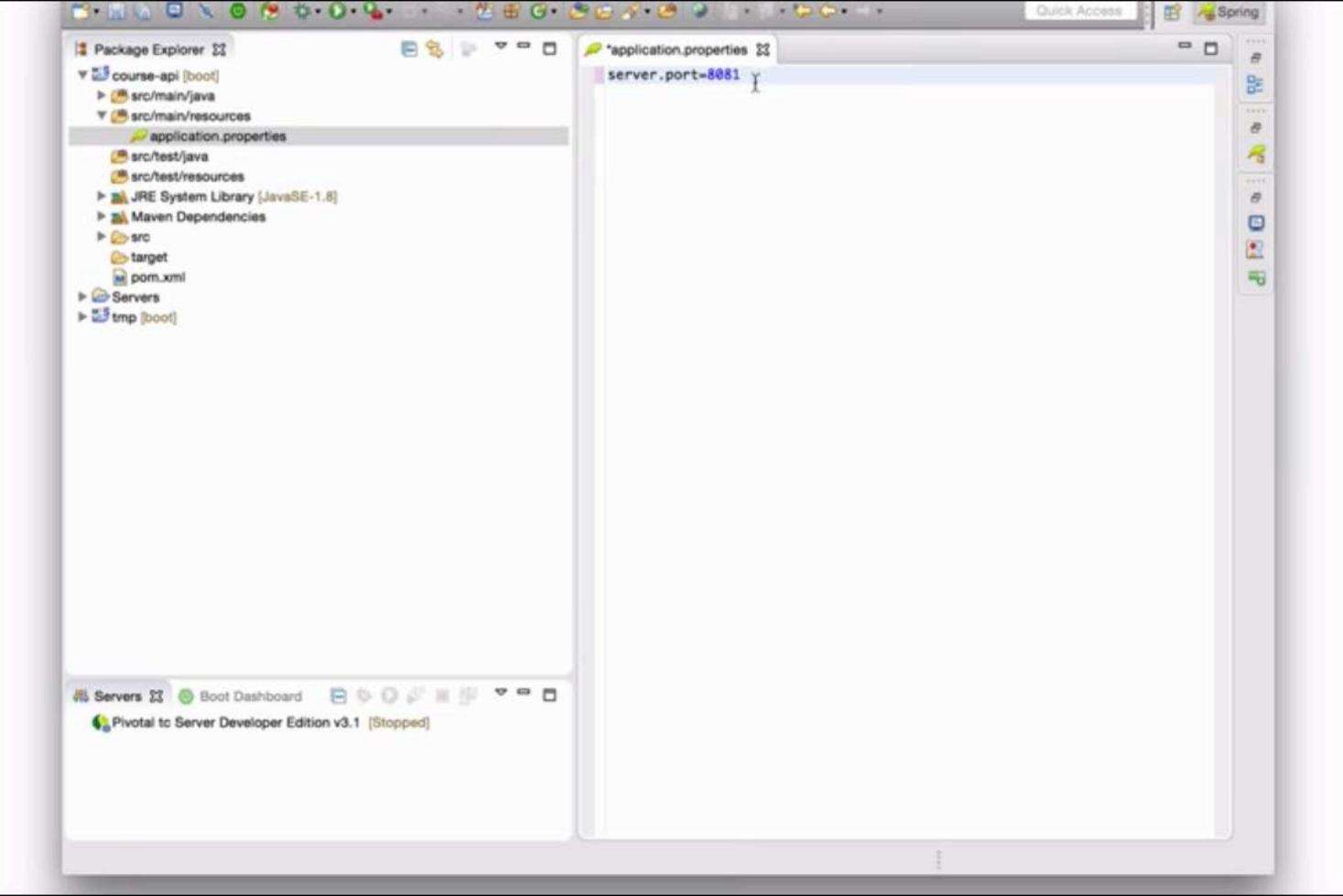
Customizing Spring Boot

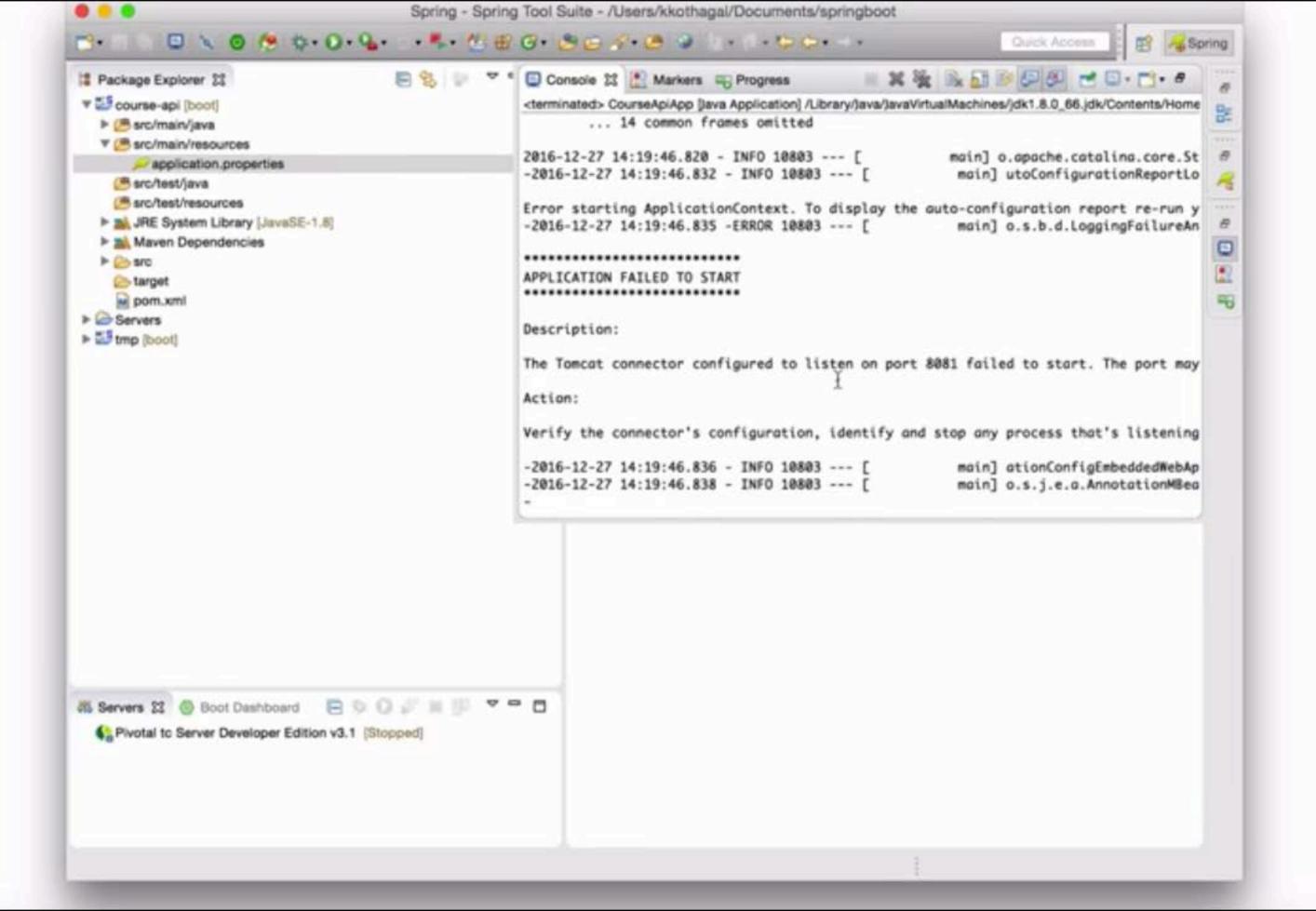
application.properties



javabrains.io

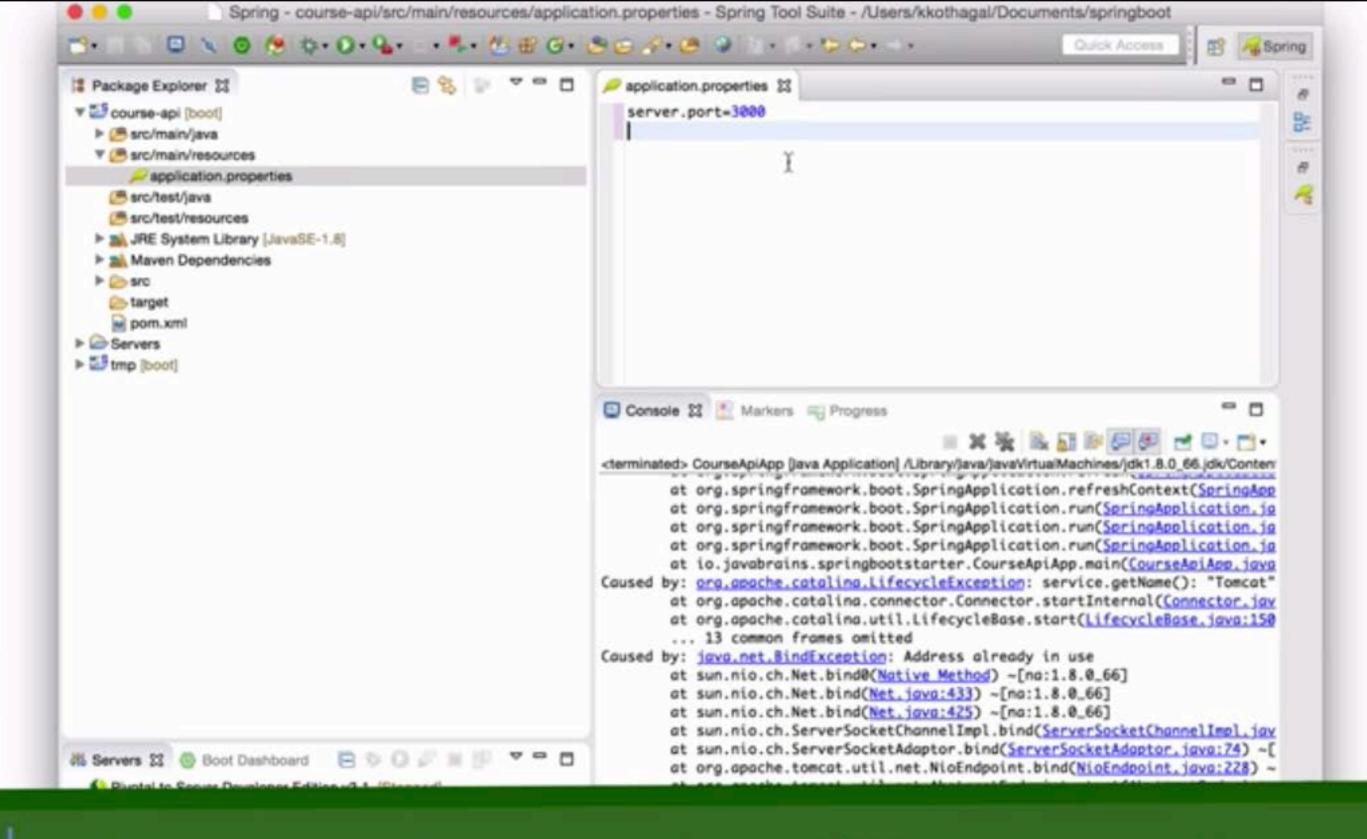






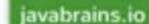
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                                                                                                                                     Spring
                                                                                             # X & R. A B (D (D ) - - 8
    Console 23 Markers Progress
    <terminated> CourseApiApp [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_66.jdk/Contents/Home/bin/java (Dec 6, 2016, 2:19:43 PM)
12
           at org.springframework.boot.SpringApplication.refreshContext(SpringApplication, java: 371) [spring-boot-1.4.2.RELEASE.jar:1.4.2.R
           at org.springframework.boot.SpringApplication.run(SpringApplication, java; 315) [spring-boot-1.4.2.RELEASE.jar:1.4.2.RELEASE]
#
                                                                                                                                            8
            at org.springframework.boot.SpringApplication.run(SpringApplication.java:1186) [spring-boot-1.4.2.RELEASE.jar:1.4.2.RELEASE]
           at org.springframework.boot.SpringApplication.run(SpringApplication.jaya:1175) [spring-boot-1.4.2.RELEASE.jar:1.4.2.RELEASE]
                                                                                                                                           R
枞
            at io.javabrains.springbootstarter.CourseApiApp.main(CourseApiApp,java:10) [classes/:na]
    Caused by: org.apache.cataling.LifecycleException: service.getName(): "Tomcat"; Protocol handler start failed
                                                                                                                                            B
            at org.apache.catalina.connector.Connector.startInternal(Connector.java:976) ~[tomcat-embed-core-8.5.6.jar:8.5.6]
            at org.apache.catalina.util.LifecycleBase.start(LifecycleBase.java:150) ~[tomcat-embed-core-8.5.6.jar:8.5.6]
            ... 13 common frames omitted
    Caused by: java.net.BindException: Address already in use
            at sun.nio.ch.Net.bind@(Native Method) ~[na:1.8.0_66]
            at sun.nio.ch.Net.bind(Net.java:433) ~[na:1.8.0_66]
            at sun.nio.ch.Net.bind(Net.java:425) ~[na:1.8.0_66]
            at sun.nio.ch.ServerSocketChannelImpl.bind(ServerSocketChannelImpl.java:223) ~[na:1.8.0_66]
            at sun.nio.ch.ServerSocketAdaptor.bind(ServerSocketAdaptor.java:74) ~[na:1.8.0_66]
            at org.apache.tomcat.util.net.NioEndpoint.bind(NioEndpoint.java:228) ~[tomcat-embed-core-8.5.6.jar:8.5.6]
           at org.apache.tomcat.util.net.AbstractEndpoint.start(AbstractEndpoint.java:874) ~[tomcat-embed-core-8.5.6.jar:8.5.6]
           at org.apache.coyote.AbstractProtocol.start(AbstractProtocol.java:590) ~[tomcat-embed-core-8.5.6.jar:8.5.6]
           at org.apache.catalina.connector.Connector.startInternal(Connector.java:969) ~[tomcat-embed-core-8.5.6.jar:8.5.6]
            ... 14 common frames omitted
                                                        main] o.apache.catalina.core.StandardService : Stopping service Tomcat
    2016-12-27 14:19:46.820 - INFO 10803 --- [
    -2016-12-27 14:19:46.832 - INFO 10803 --- [
                                                         main] utoConfigurationReportLoggingInitializer :
    Error starting ApplicationContext. To display the auto-configuration report re-run your application with 'debug' enabled.
    -2016-12-27 14:19:46.835 -ERROR 10803 --- [
                                                         main] o.s.b.d.LoggingFailureAnalysisReporter :
    .........
    APPLICATION FAILED TO START
    ........
    Description:
    The Tomcat connector configured to listen on port 8081 failed to start. The port may already be in use or the connector may be misconfi-
    Action:
    Verify the connector's configuration, identify and stop any process that's listening on port 8081, or configure this application to lis-
    -2016-12-27 14:19:46.836 - INFO 10803 --- [
                                                         main] ationConfigEmbeddedWebApplicationContext : Closing org.springframework.boot
    -2016-12-27 14:19:46.838 - INFO 10803 --- [
                                                         main] o.s.j.e.a.AnnotationMBeanExporter
                                                                                                        : Unregistering JMX-exposed beans
```

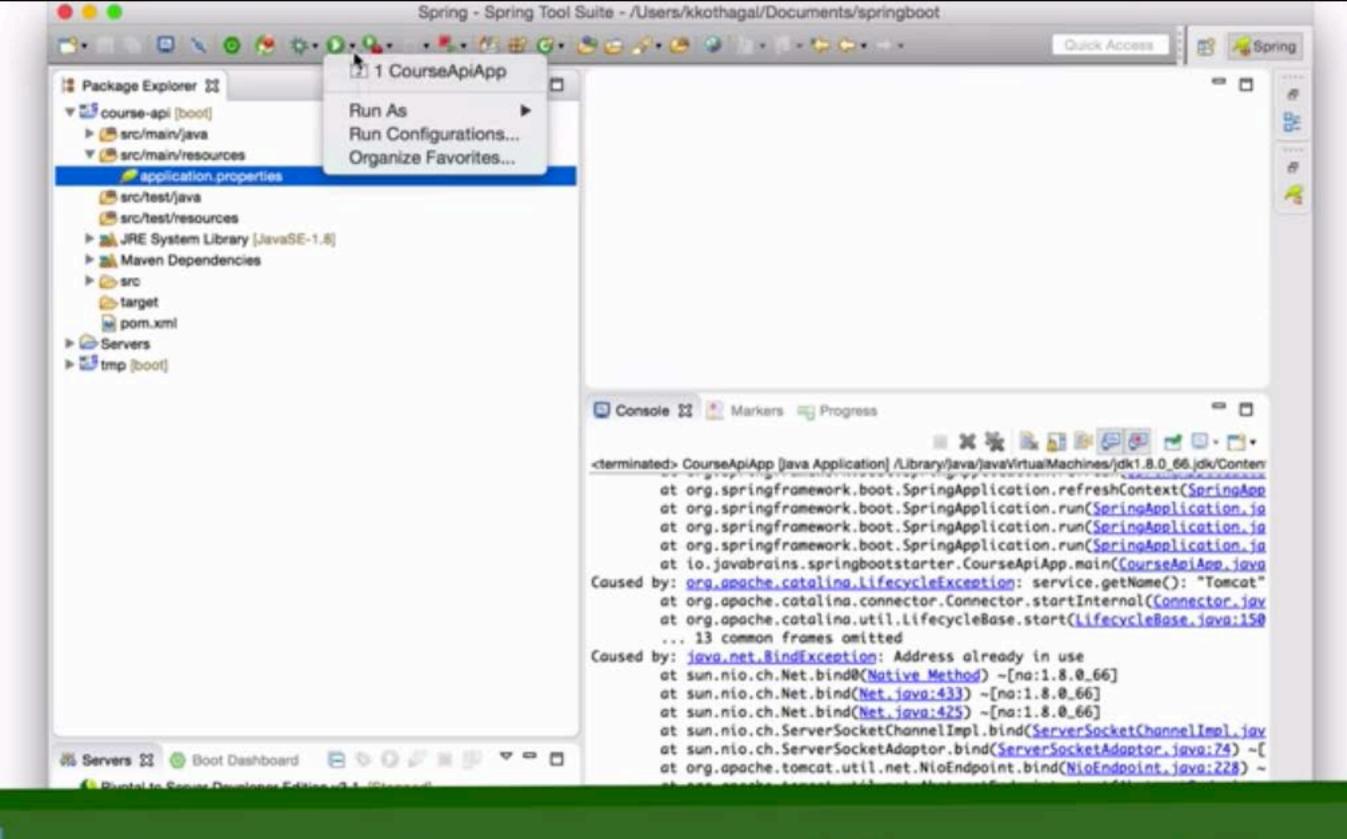
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Looks like there is another program using port 8081 on my machine. That's why this failed to start. This might work on your machine!







Looks like there is another program using port 8081 on my machine. That's why this failed to start. This might work on your machine!

