## UNIT 5

# Deployment and monitoring

**Spring Boot Quick Start** 



~/Documents/springboot/course-api-data \$ ls
derby.log mvnw mvnw.cmd pom.xml target
~/Documents/springboot/course-api-data \$ mvn clean install

```
Thread-3] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000227: Running hbm2ddl javabrains.io
2016-12-20 16:52:24.543 INFO 64624 --- [
2016-12-20 16:52:24.582 INFO 64624 --- [
                                         Thread-3] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000230: Schema export complete
Results:
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:2.6:jar (default-jar) @ course-api-data ---
[INFO] Building jar: /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:1.4.2.RELEASE:repackage (default) @ course-api-data ---
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ course-api-data ---
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.jar to /Users/kkothagal/.m2/r
epository/io/javabrains/course-api-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/pom.xml to /Users/kkothagal/.m2/repository/io/javabrains/course-api
-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.280 s
[INFO] Finished at: 2016-12-20T16:52:25-08:00
[INFO] Final Memory: 32M/316M
[INFO] -----
~/Documents/springboot/course-api-data $
```

```
2016-12-20 16:52:24.582 INFO 64624 --- [
                                         Thread-3] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000230: Schema export complete
Results:
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:2.6:jar (default-jar) @ course-api-data ---
[INFO] Building jar: /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:1.4.2.RELEASE:repackage (default) @ course-api-data ---
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ course-api-data ---
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.jar to /Users/kkothagal/.m2/r
epository/io/javabrains/course-api-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/pom.xml to /Users/kkothagal/.m2/repository/io/javabrains/course-api
-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.280 s
[INFO] Finished at: 2016-12-20T16:52:25-08:00
[INFO] Final Memory: 32M/316M
[INFO] -----
~/Documents/springboot/course-api-data $
```

2016-12-20 16:52:24.543 INFO 64624 --- Γ

Thread-3] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000227: Running hbm2ddl javabrains.io

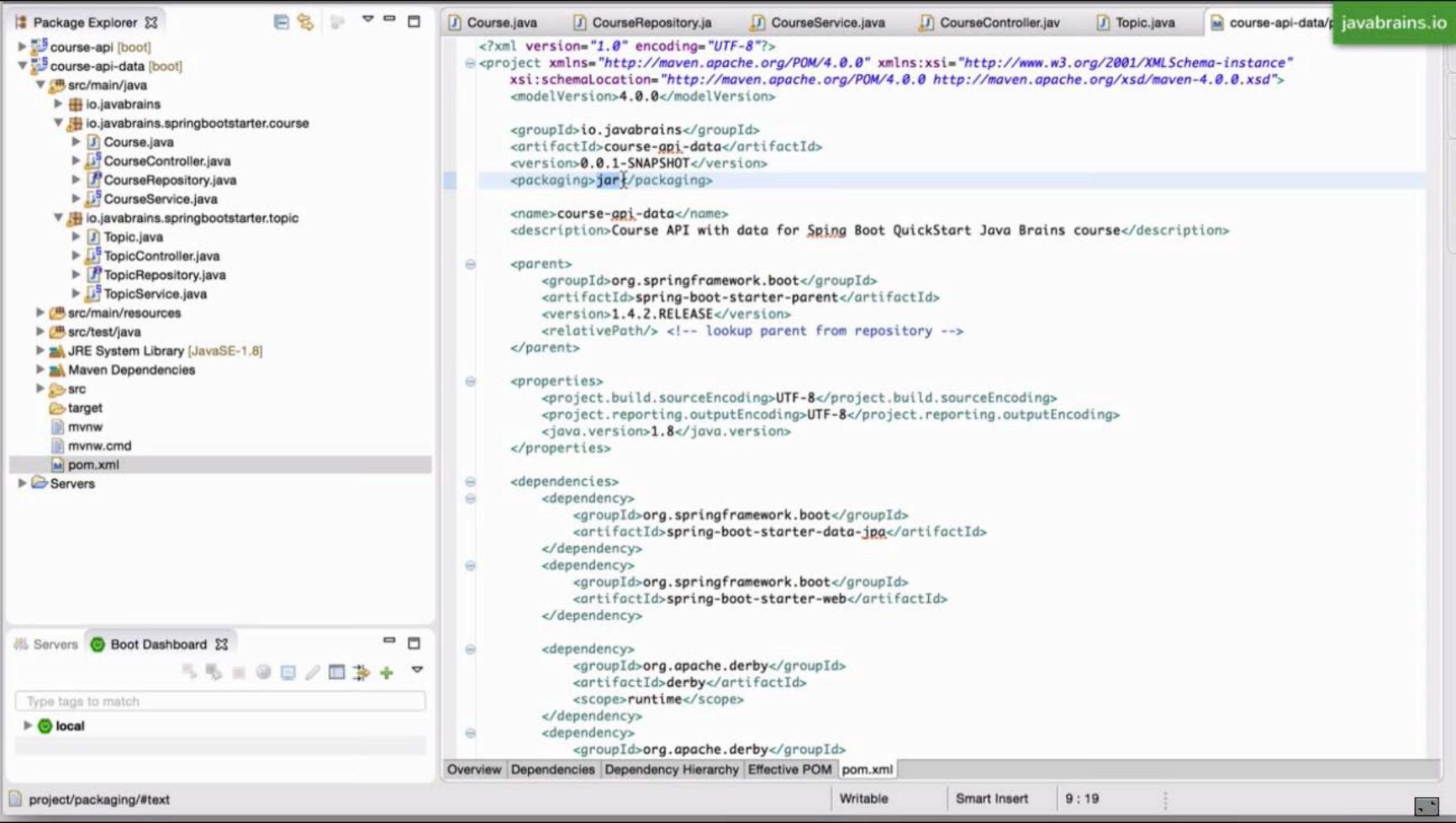
```
Results:
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:2.6:jar (default-jar) @ course-api-data ---
[INFO] Building jar: /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:1.4.2.RELEASE:repackage (default) @ course-api-data ---
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ course-api-data ---
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.jar to /Users/kkothagal/.m2/r
epository/io/javabrains/course-api-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/pom.xml to /Users/kkothagal/.m2/repository/io/javabrains/course-api
-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.280 s
[INFO] Finished at: 2016-12-20T16:52:25-08:00
[INFO] Final Memory: 32M/316M
[INFO] -----
~/Documents/springboot/course-api-data $ java -jar target/cour
course-api-data-0.0.1-SNAPSHOT.jar course-api-data-0.0.1-SNAPSHOT.jar.original
~/Documents/springboot/course-api-data $ java -jar target/course-api-data-0.0.1-SNAPSHOT.jar
```

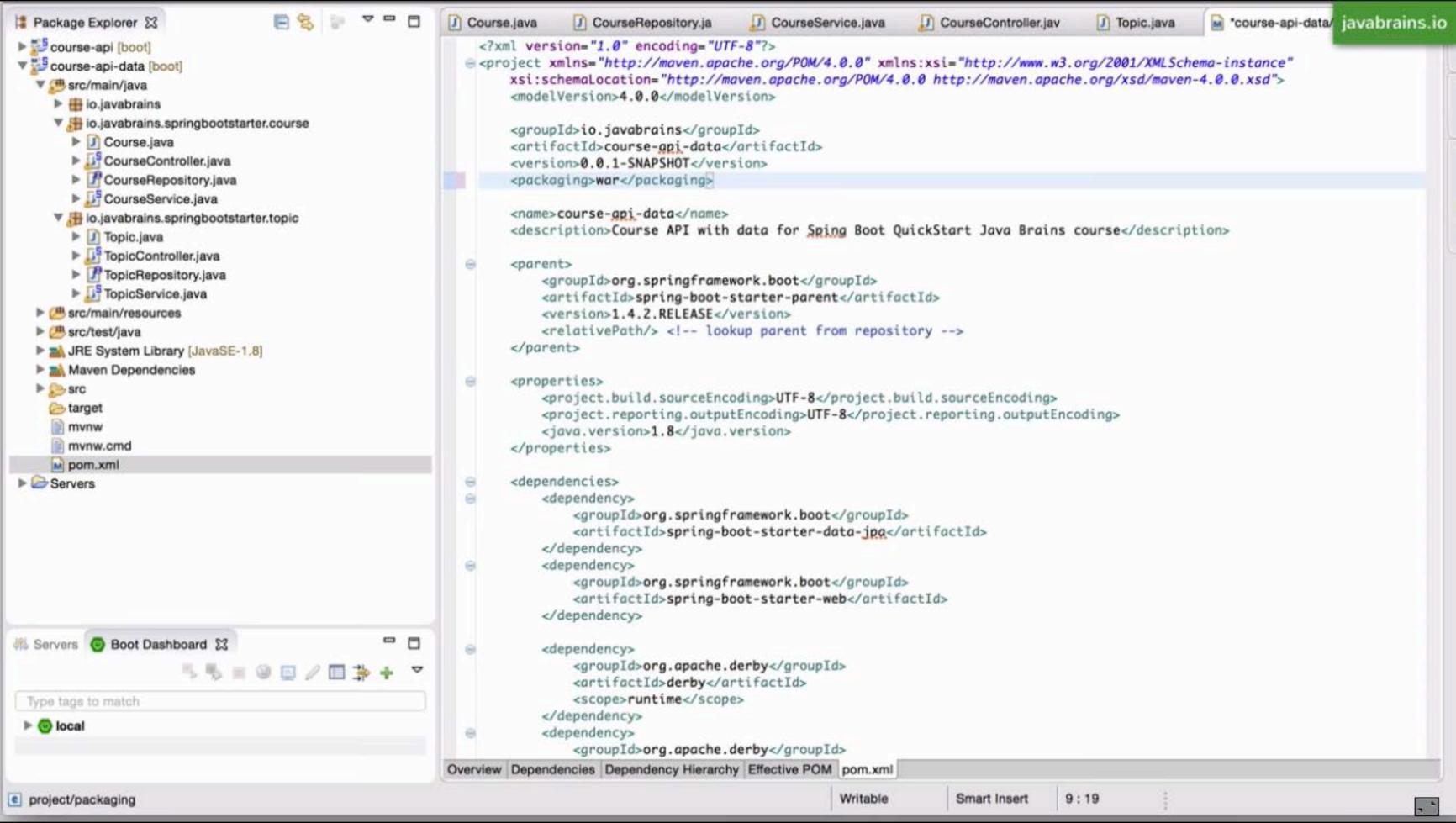
2016-12-20 16:52:24.582 INFO 64624 --- Γ

Thread-3] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000230: Schema export co javabrains.io

```
javabrains.io
[INFO] -----
~/Documents/springboot/course-api-data $ java -jar target/cour
                                      course-api-data-0.0.1-SNAPSHOT.jar.original
course-api-data-0.0.1-SNAPSHOT.jar
~/Documents/springboot/course-api-data $ java -jar target/course-api-data-0.0.1-SNAPSHOT.jar
\\\/_______
\\ __)||_)||||||||(_|| ))))
 :: Spring Boot :: (v1.4.2.RELEASE)
2016-12-20 16:53:21.482 INFO 64629 --- [
                                             main] io.javabrains.CourseApiDataApplication : Starting CourseApiDataApplication v0.0
.1-SNAPSHOT on kkothagal-mbp with PID 64629 (/Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.ja
r started by kkothagal in /Users/kkothagal/Documents/springboot/course-api-data)
2016-12-20 16:53:21.484 INFO 64629 --- [
                                             main] io.javabrains.CourseApiDataApplication : No active profile set, falling back to
default profiles: default
                                             main] ationConfigEmbeddedWebApplicationContext: Refreshing org.springframework.boot.co
2016-12-20 16:53:21.543 INFO 64629 --- [
ntext.embedded.AnnotationConfigEmbeddedWebApplicationContext@5a2e4553: startup date [Tue Dec 20 16:53:21 PST 2016]; root of context hierarc
hy
2016-12-20 16:53:22.864 INFO 64629 --- [ main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.transaction.
annotation.ProxyTransactionManagementConfiguration' of type [class org.springframework.transaction.annotation.ProxyTransactionManagementCon
figuration$$EnhancerBySpringCGLIB$$fabc1bd1] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for
auto-proxying)
```

[INFO] Final Memory: 32M/316M





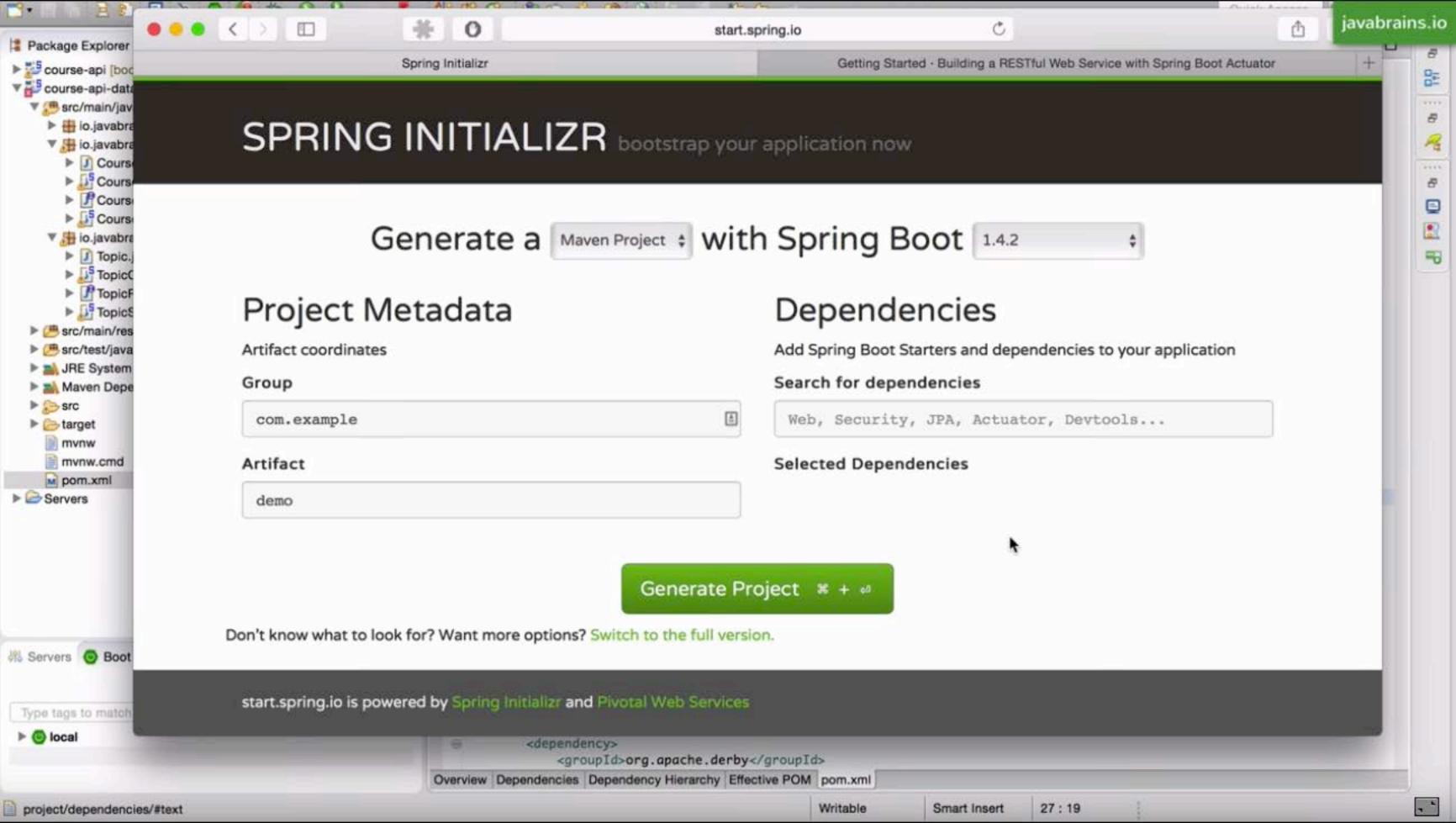
```
javabrains.io
                                                   main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error],produces-
2016-12-20 16:53:26.374 INFO 64629 --- [
}" onto public org.springframework.web.servlet.ModelAndView org.springframework.boot.autoconfigure.web.BasicErrorController.errorHtml(javax
.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse)
2016-12-20 16:53:26.410 INFO 64629 --- [
                                                   main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto han
dler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2016-12-20 16:53:26.411 INFO 64629 --- [
                                                   main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of
type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2016-12-20 16:53:26.461 INFO 64629 --- [
                                                   main] o.s.w.s.handler.SimpleUrlHandlerMapping
                                                                                                    Mapped URL path [/**/favicon.ico] onto
handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2016-12-20 16:53:26.672 INFO 64629 --- [
                                                   main] o.s.j.e.a.AnnotationMBeanExporter
                                                                                                  : Registering beans for JMX exposure on
startup
2016-12-20 16:53:26.737 INFO 64629 --- [
                                                   main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http)
2016-12-20 16:53:26.742 INFO 64629 --- [
                                                   main] io.javabrains.CourseApiDataApplication : Started CourseApiDataApplication in 5.
775 seconds (JVM running for 6.219)
                                                 Thread-4] ationConfigEmbeddedWebApplicationContext : Closing org.springframework.boot.con
^C2016-12-20 16:54:50.660 INFO 64629 --- [
text.embedded.AnnotationConfigEmbeddedWebApplicationContext@5a2e4553: startup date [Tue Dec 20 16:53:21 PST 2016]; root of context hierarch
2016-12-20 16:54:50.662 INFO 64629 --- [
                                               Thread-4] o.s.j.e.a.AnnotationMBeanExporter
                                                                                                  : Unregistering JMX-exposed beans on shu
tdown
2016-12-20 16:54:50.664 INFO 64629 --- [
                                               Thread-4] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for p
ersistence unit 'default'
2016-12-20 16:54:50.664 INFO 64629 --- [
                                               Thread-4] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000227: Running hbm2ddl schema expo
2016-12-20 16:54:50.700 INFO 64629 --- [
                                               Thread-4] org.hibernate.tool.hbm2ddl.SchemaExport : HHH000230: Schema export complete
~/Documents/springboot/course-api-data $ mvn clean install
```

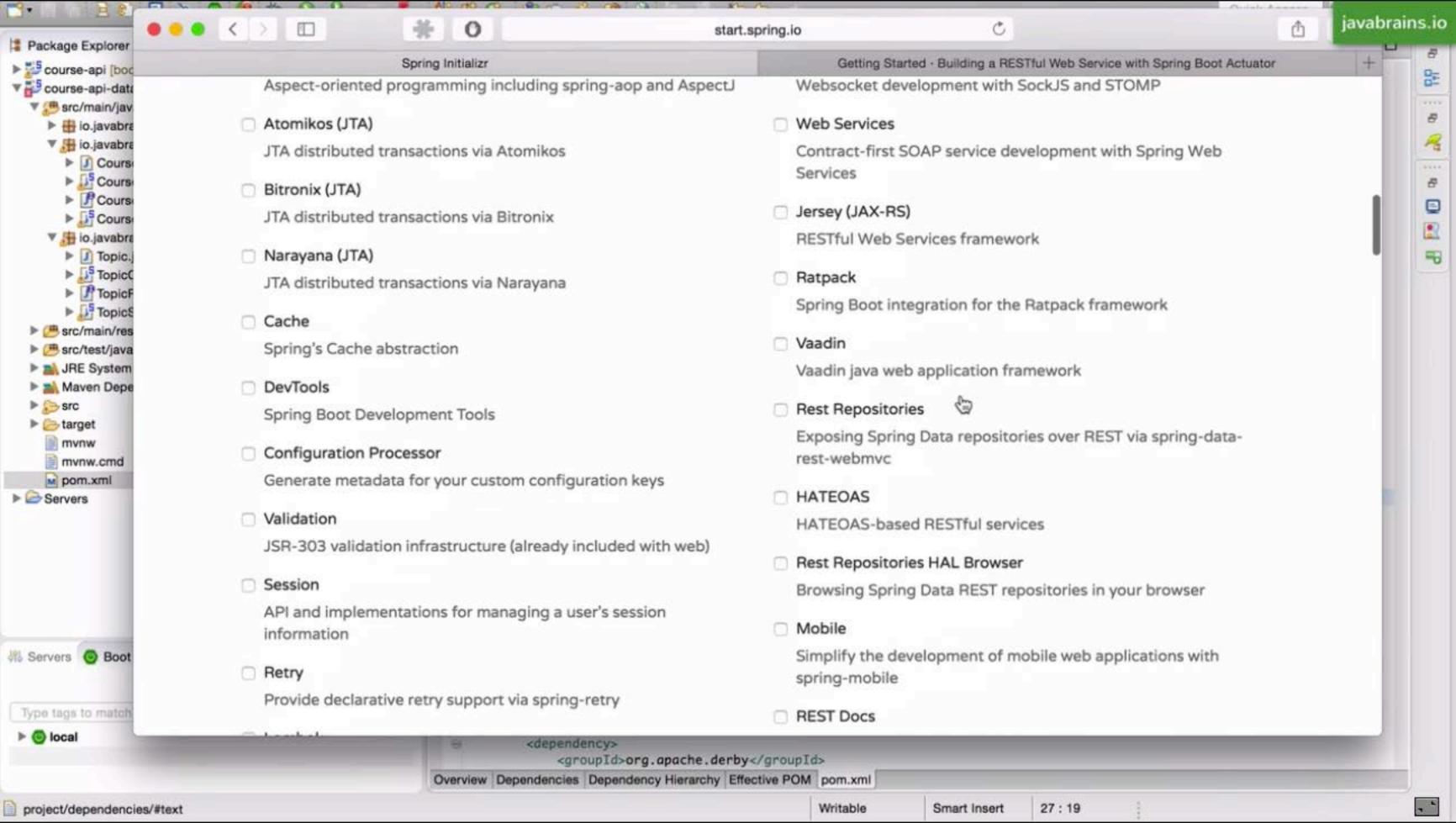
ontroller.error(javax.servlet.http.HttpServletRequest)

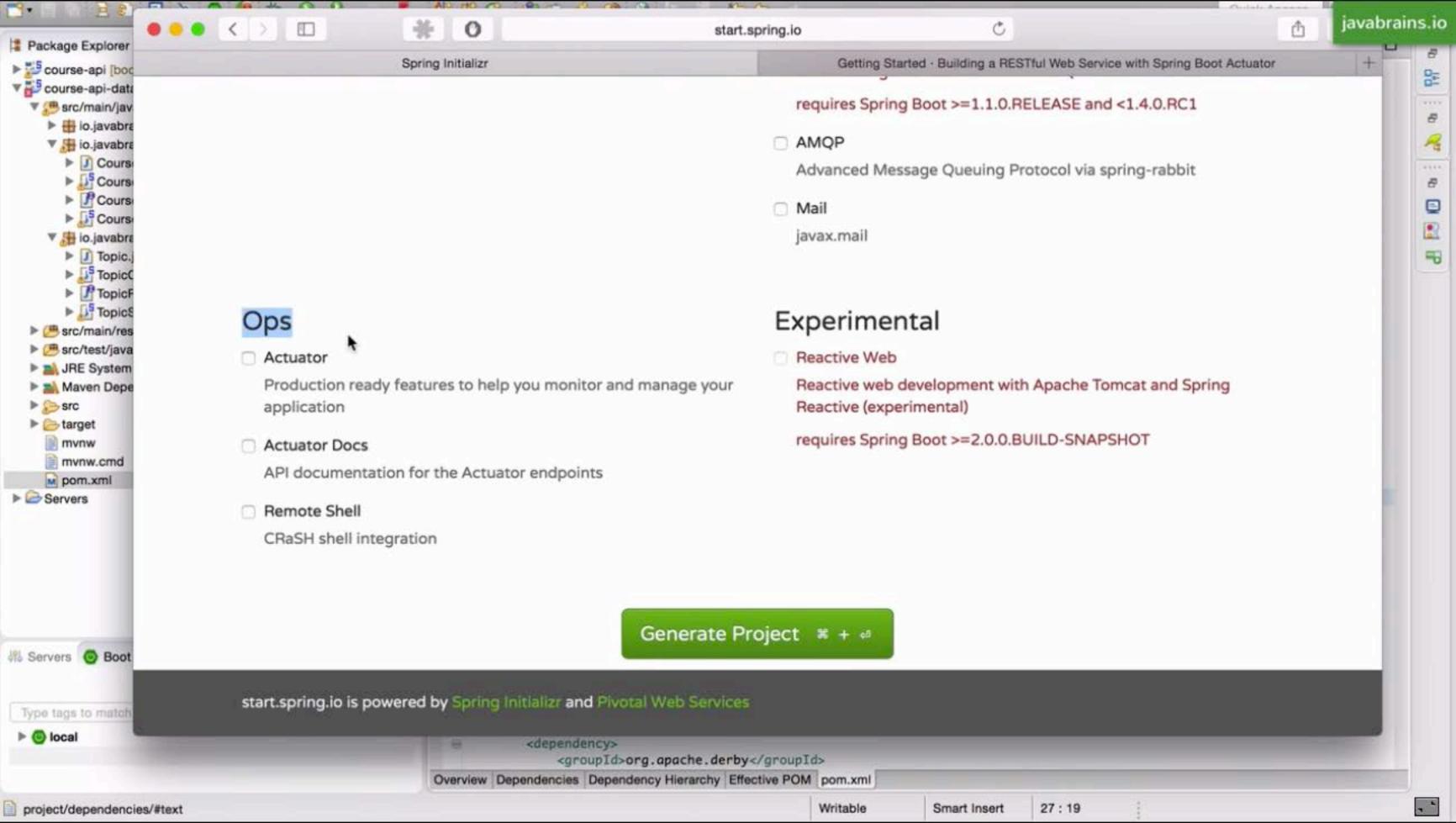
```
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-war-plugin:2.6:war (default-war) @ course-api-data ---
[INFO] Packaging webapp
[INFO] Assembling webapp [course-api-data] in [/Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT]
[INFO] Processing war project
[INFO] Webapp assembled in [474 msecs]
[INFO] Building war: /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.wark
[INFO]
[INFO] --- spring-boot-maven-plugin:1.4.2.RELEASE:repackage (default) @ course-api-data ---
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ course-api-data ---
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/target/course-api-data-0.0.1-SNAPSHOT.war to /Users/kkothagal/.m2/r
epository/io/javabrains/course-api-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.war
[INFO] Installing /Users/kkothagal/Documents/springboot/course-api-data/pom.xml to /Users/kkothagal/.m2/repository/io/javabrains/course-api
-data/0.0.1-SNAPSHOT/course-api-data-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 10.538 s
[INFO] Finished at: 2016-12-20T16:55:42-08:00
[INFO] Final Memory: 36M/309M
[INFO] -----
~/Documents/springboot/course-api-data $
```

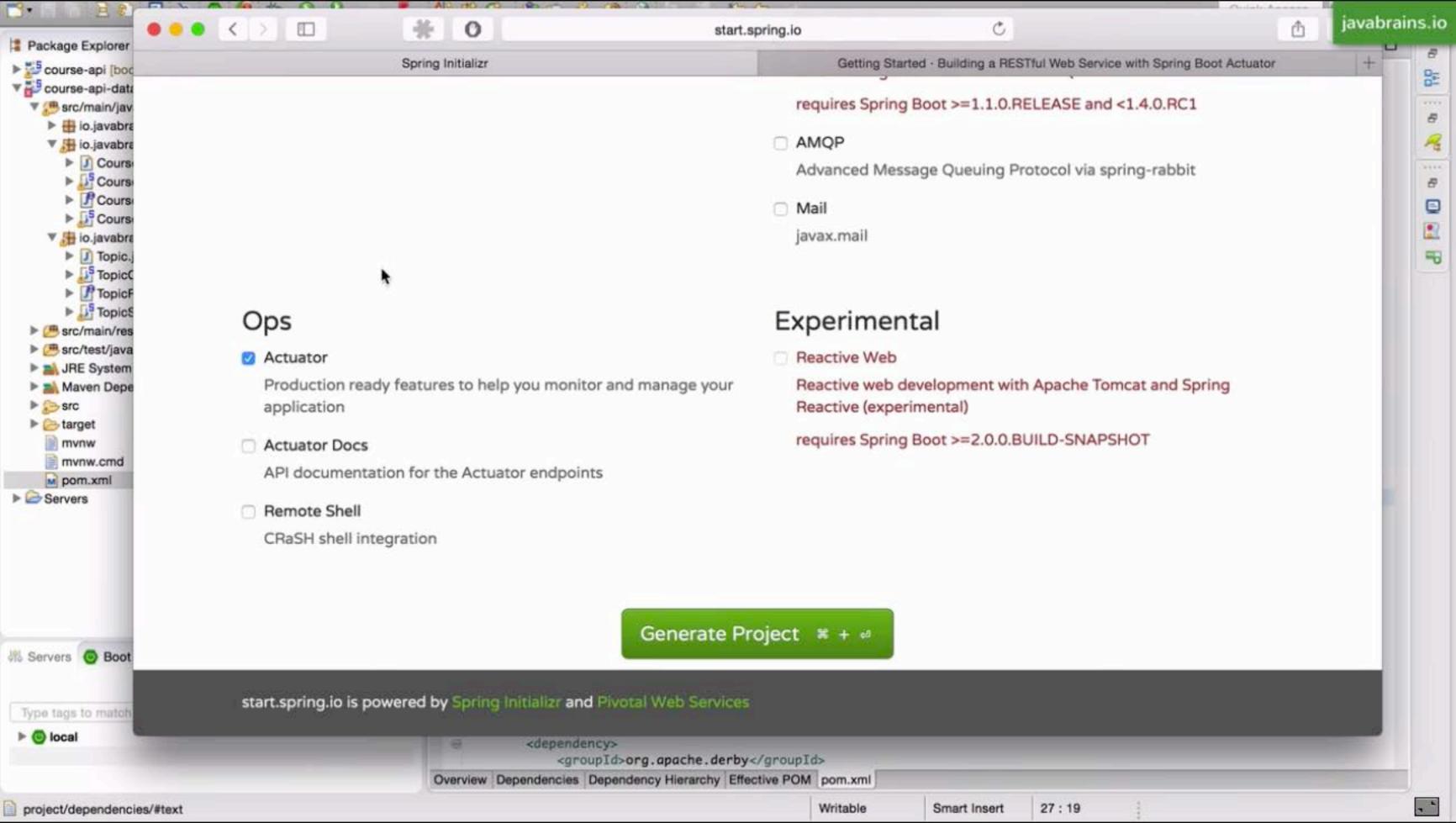
javabrains.io

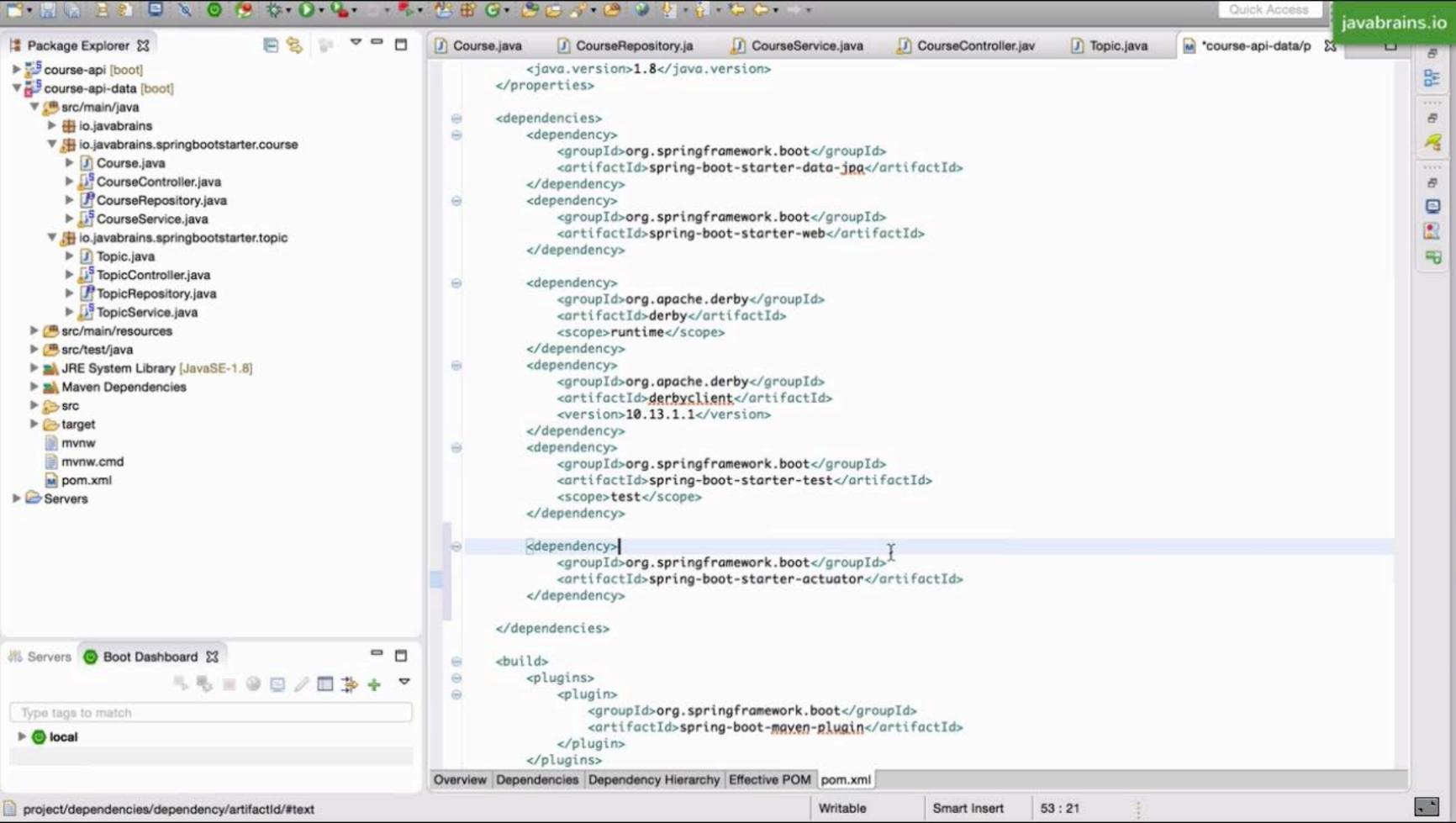
Results:

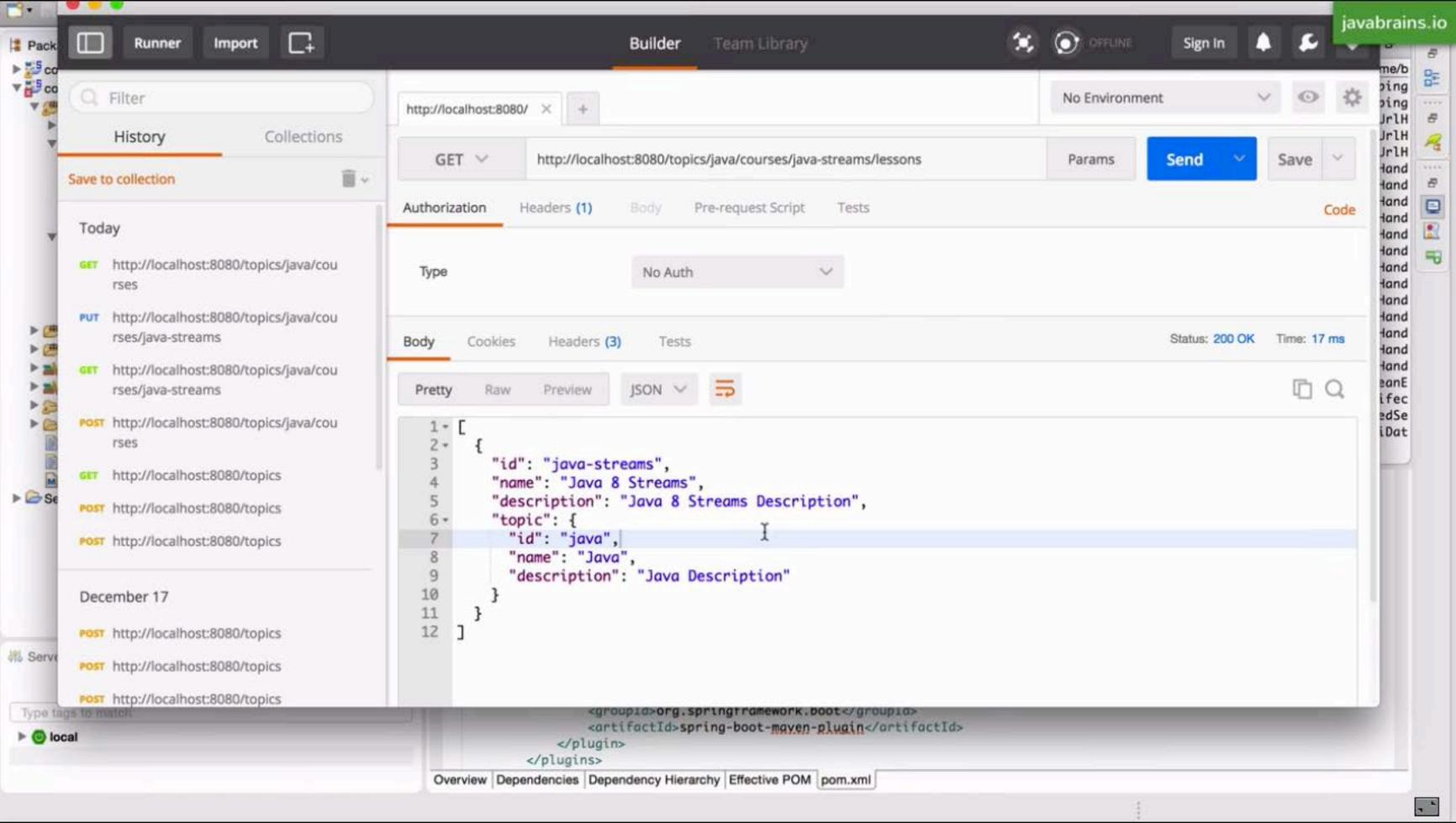


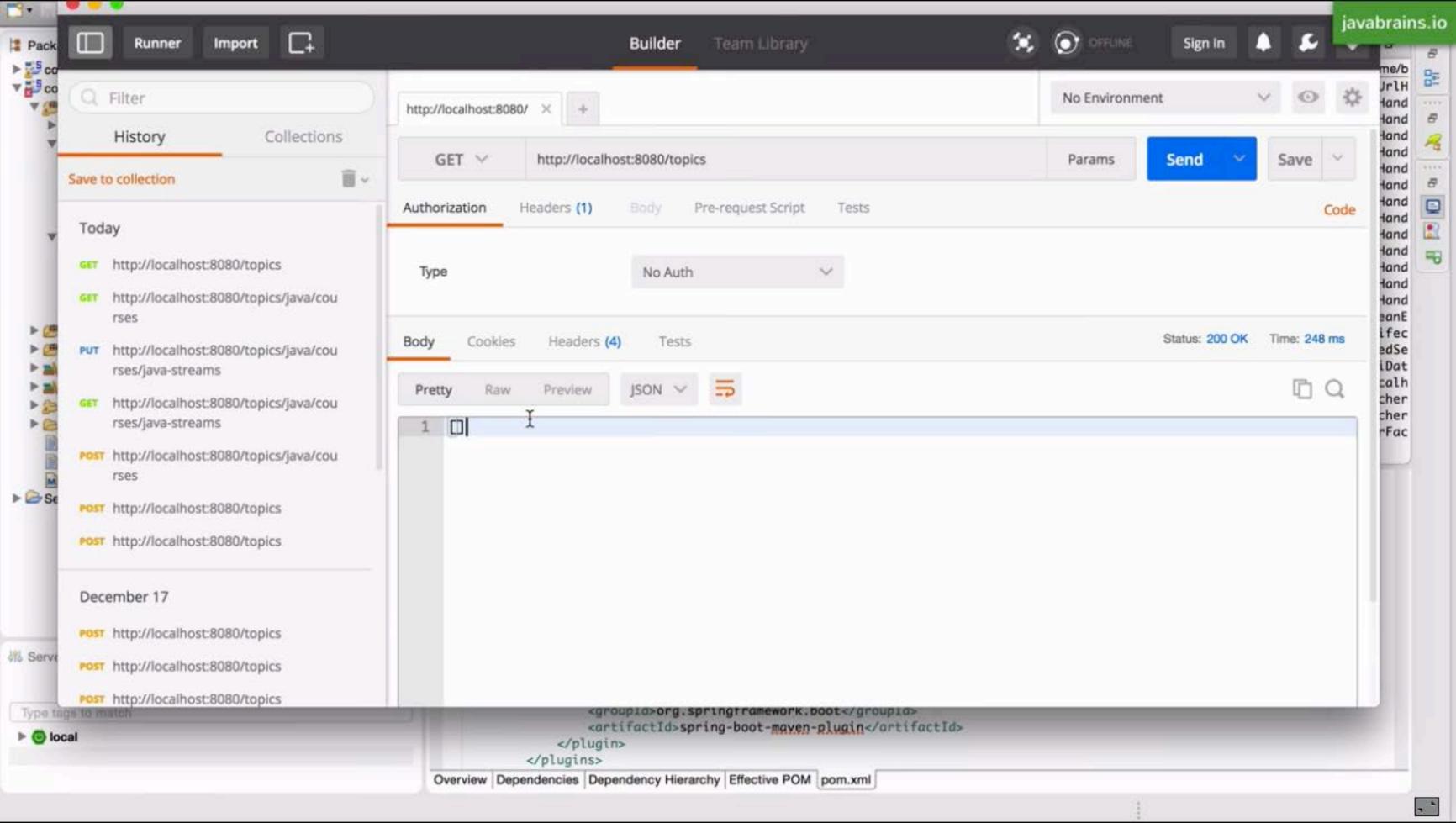


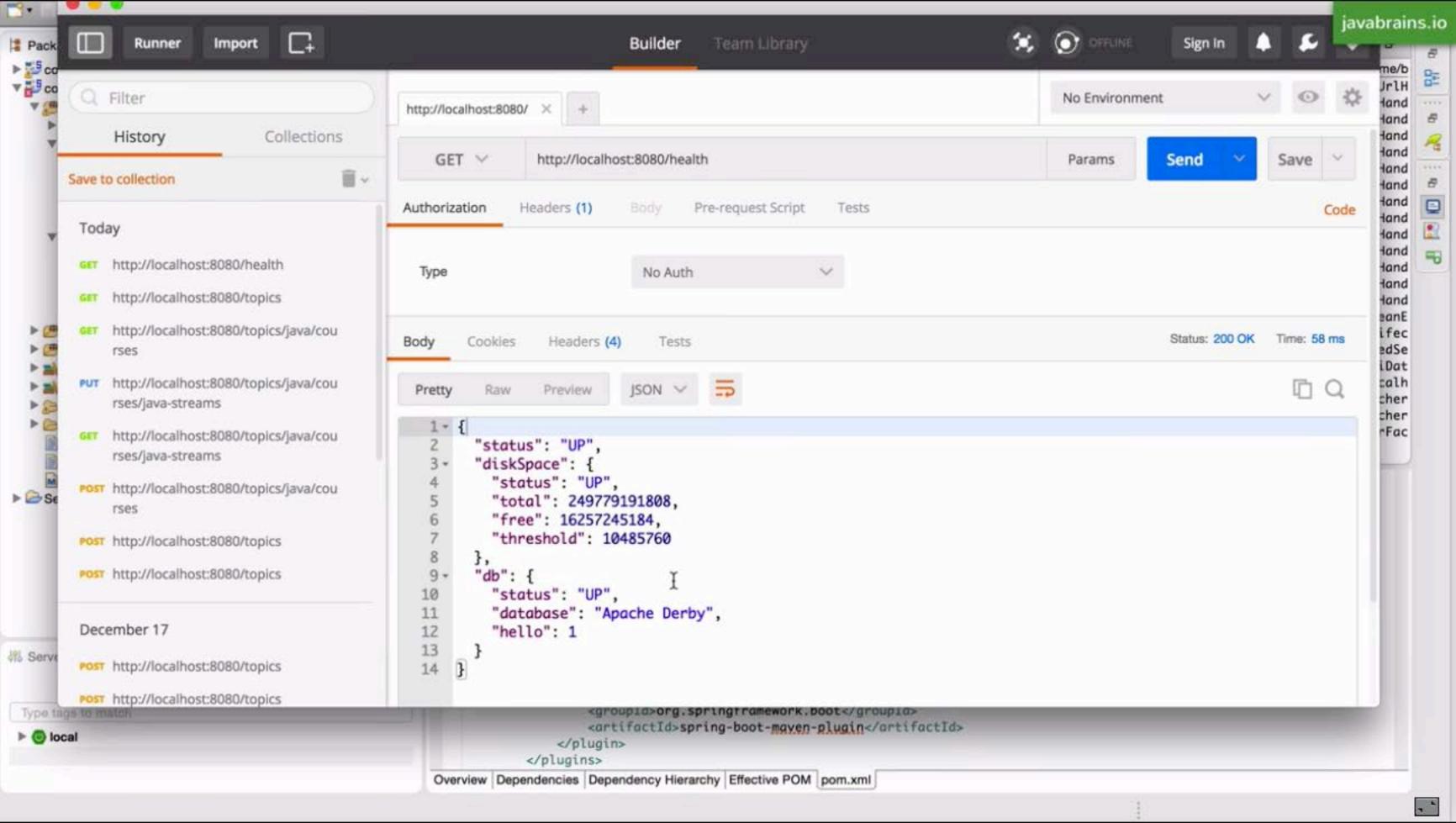


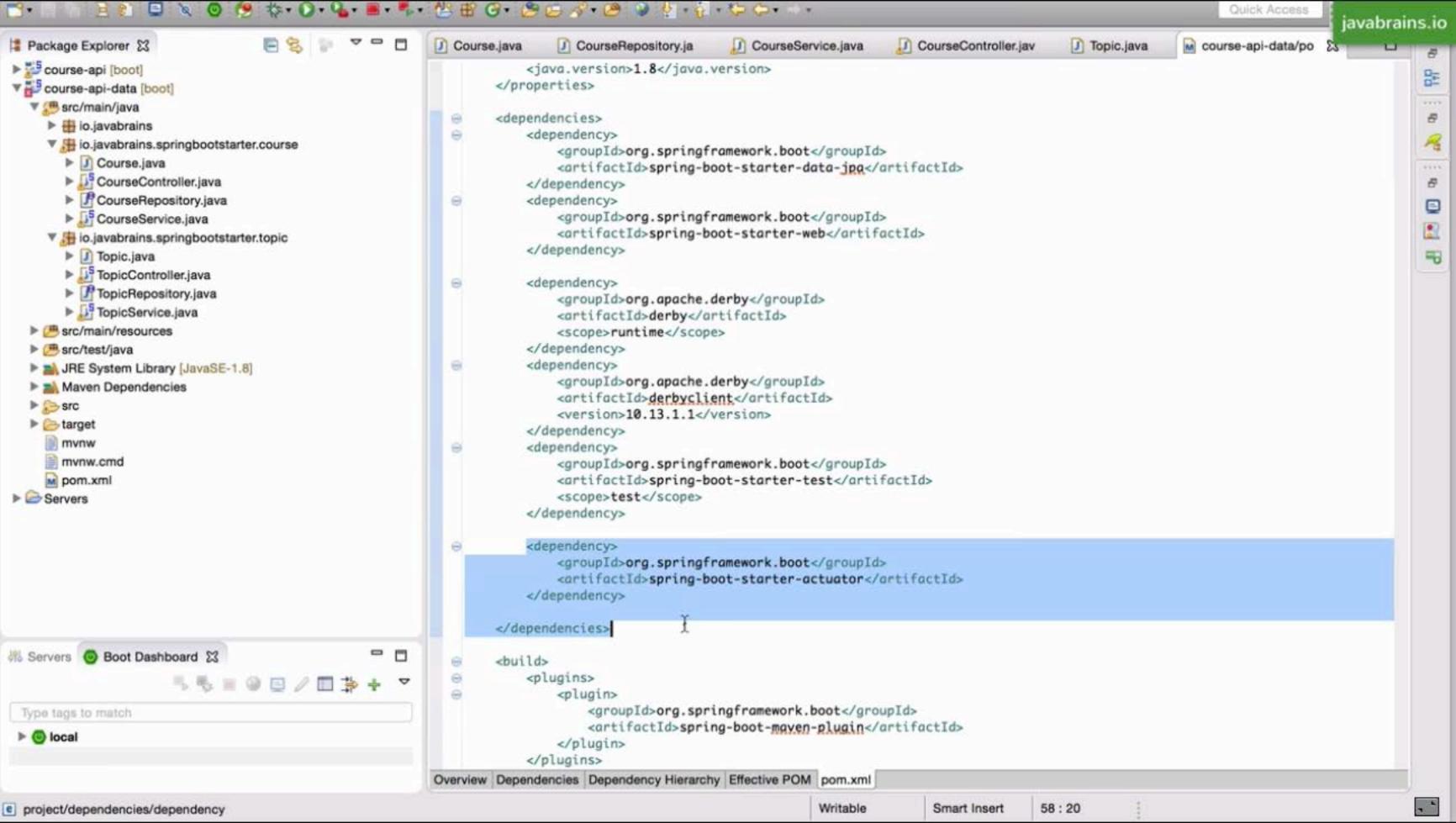


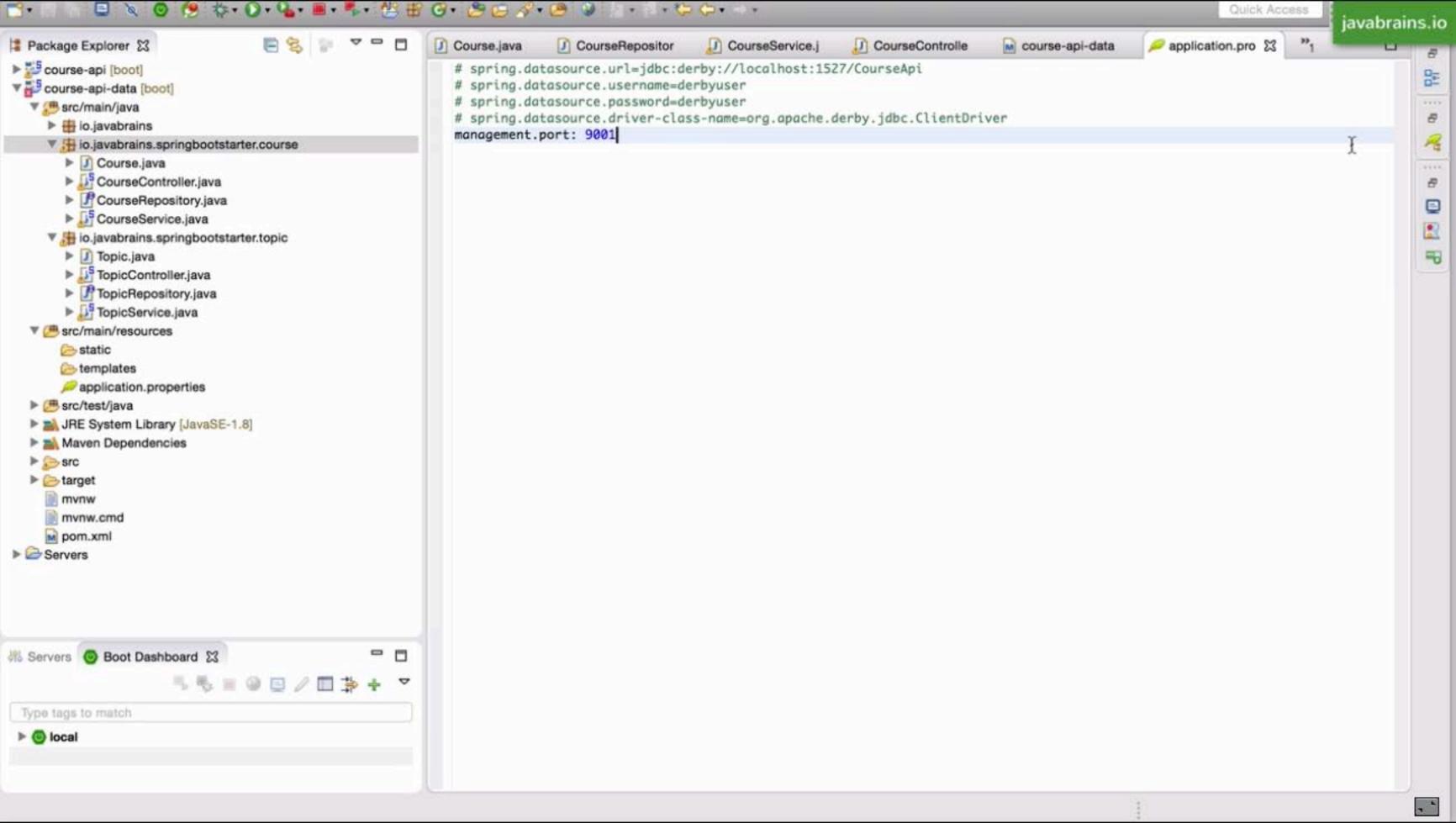


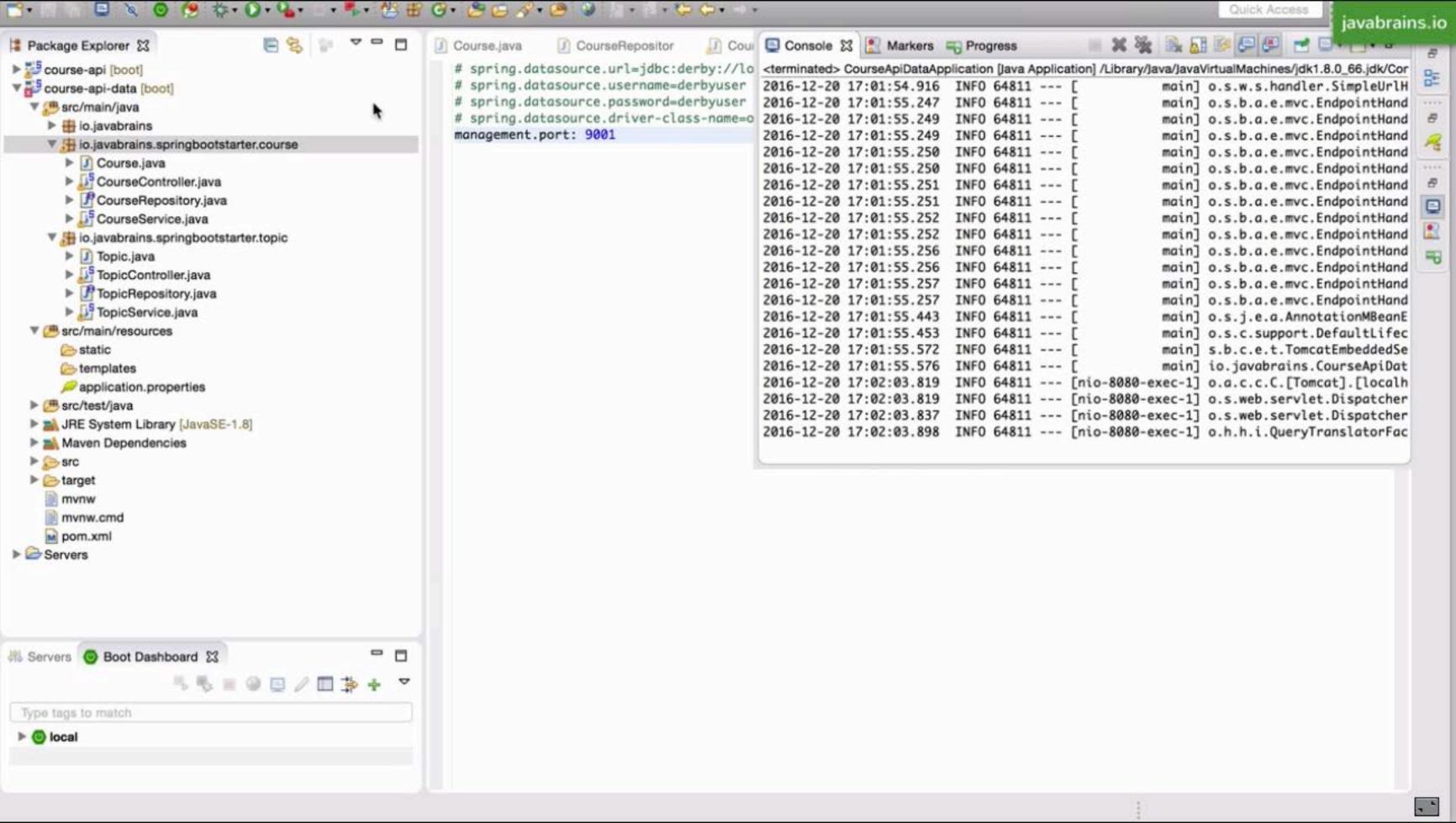


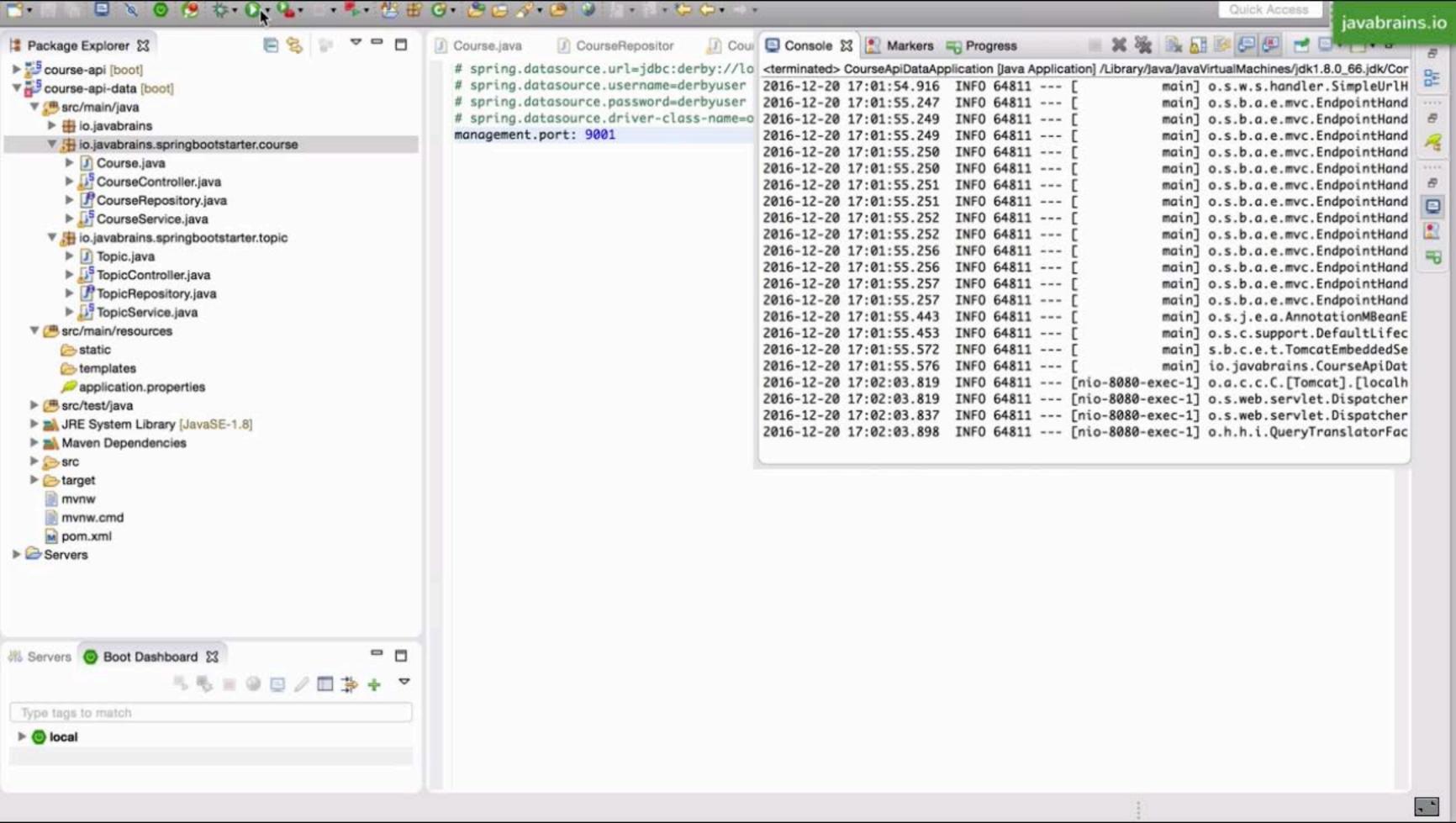


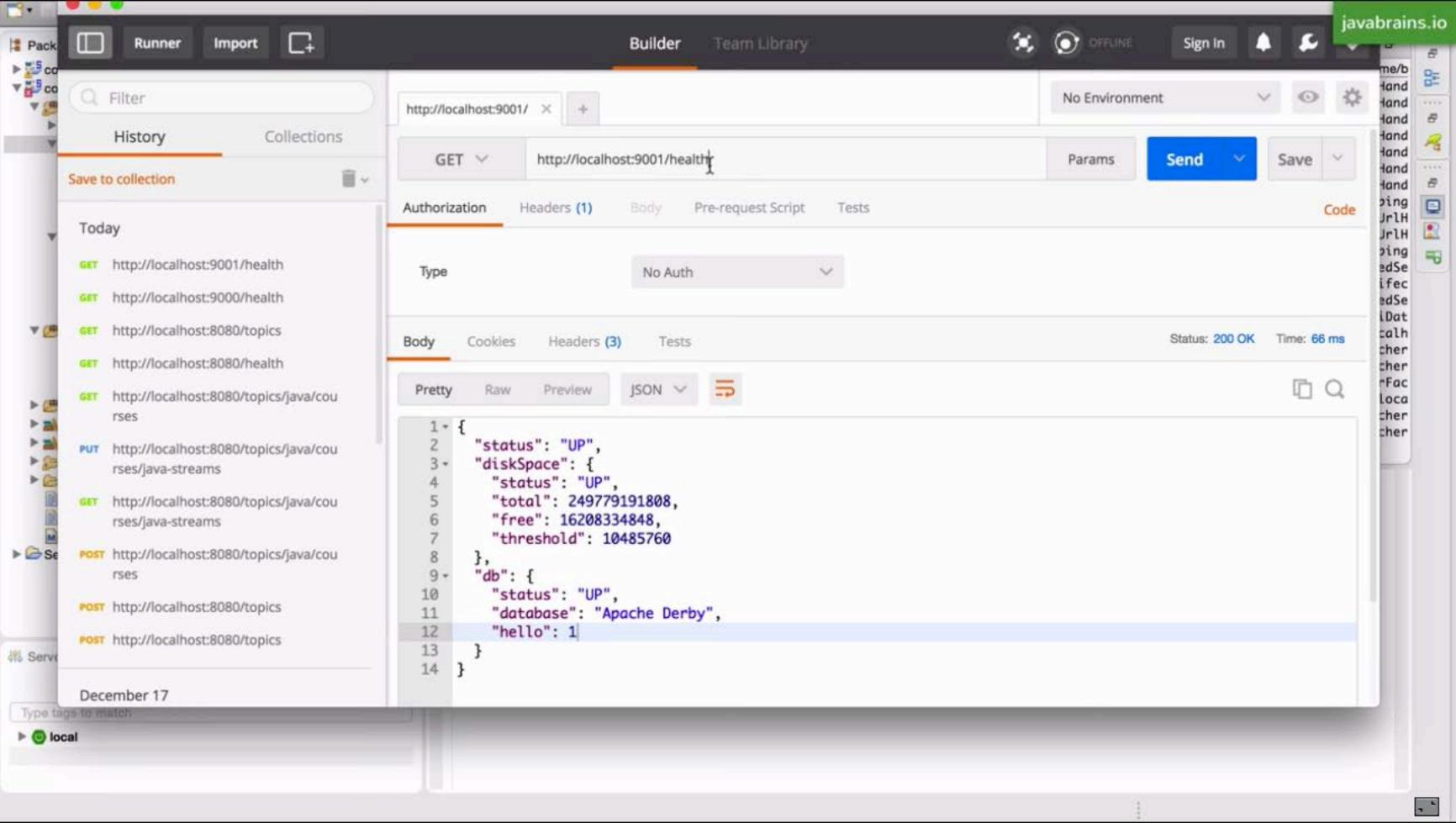


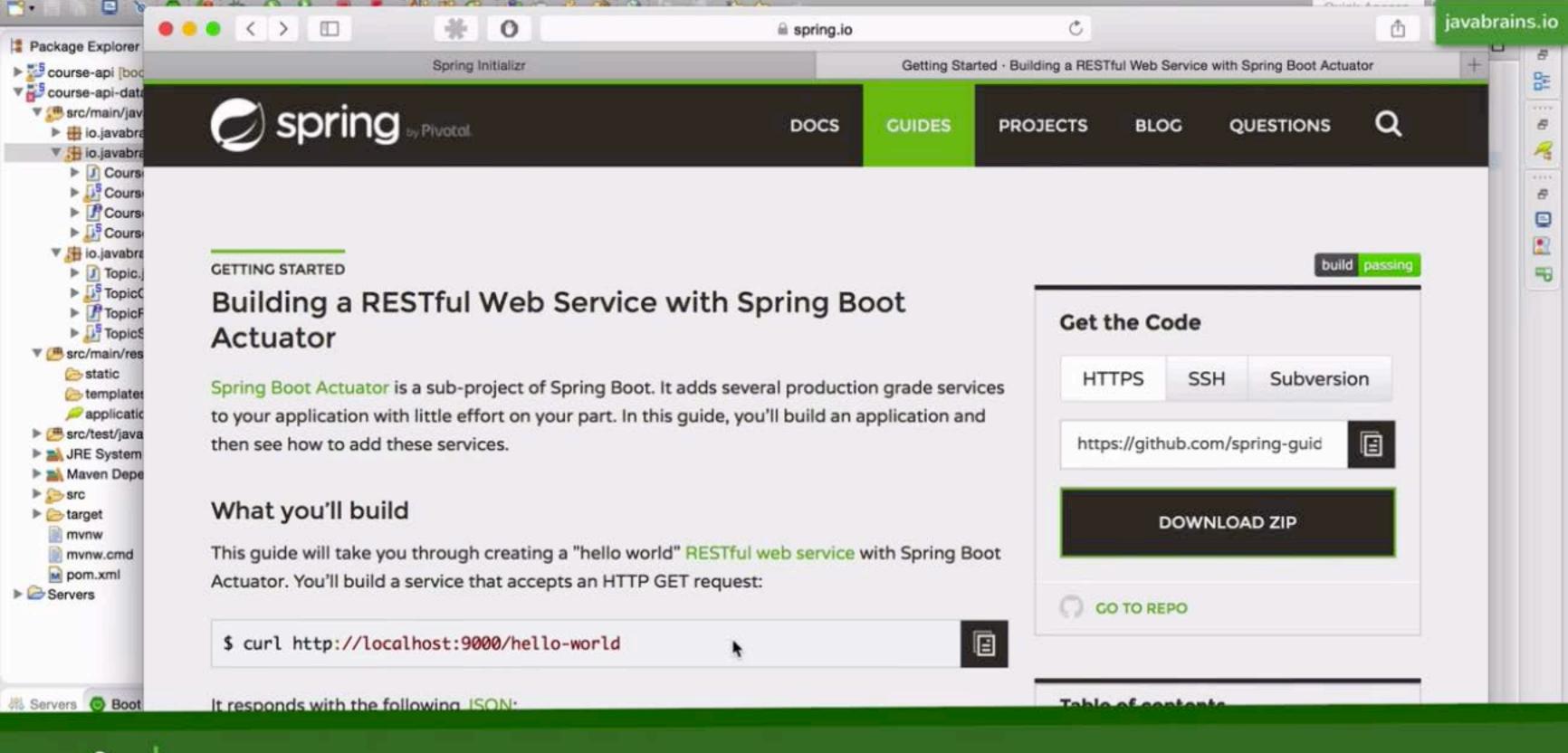






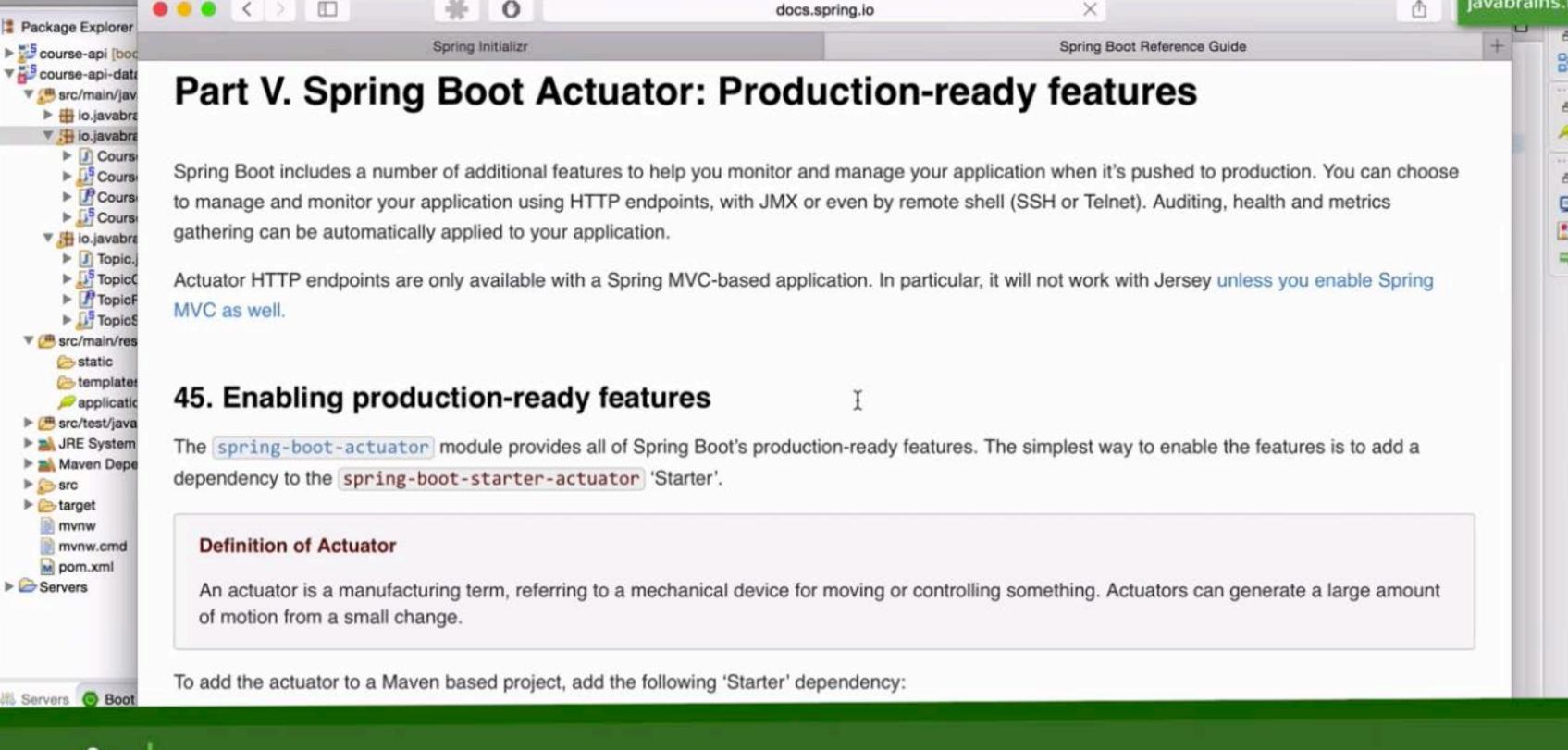








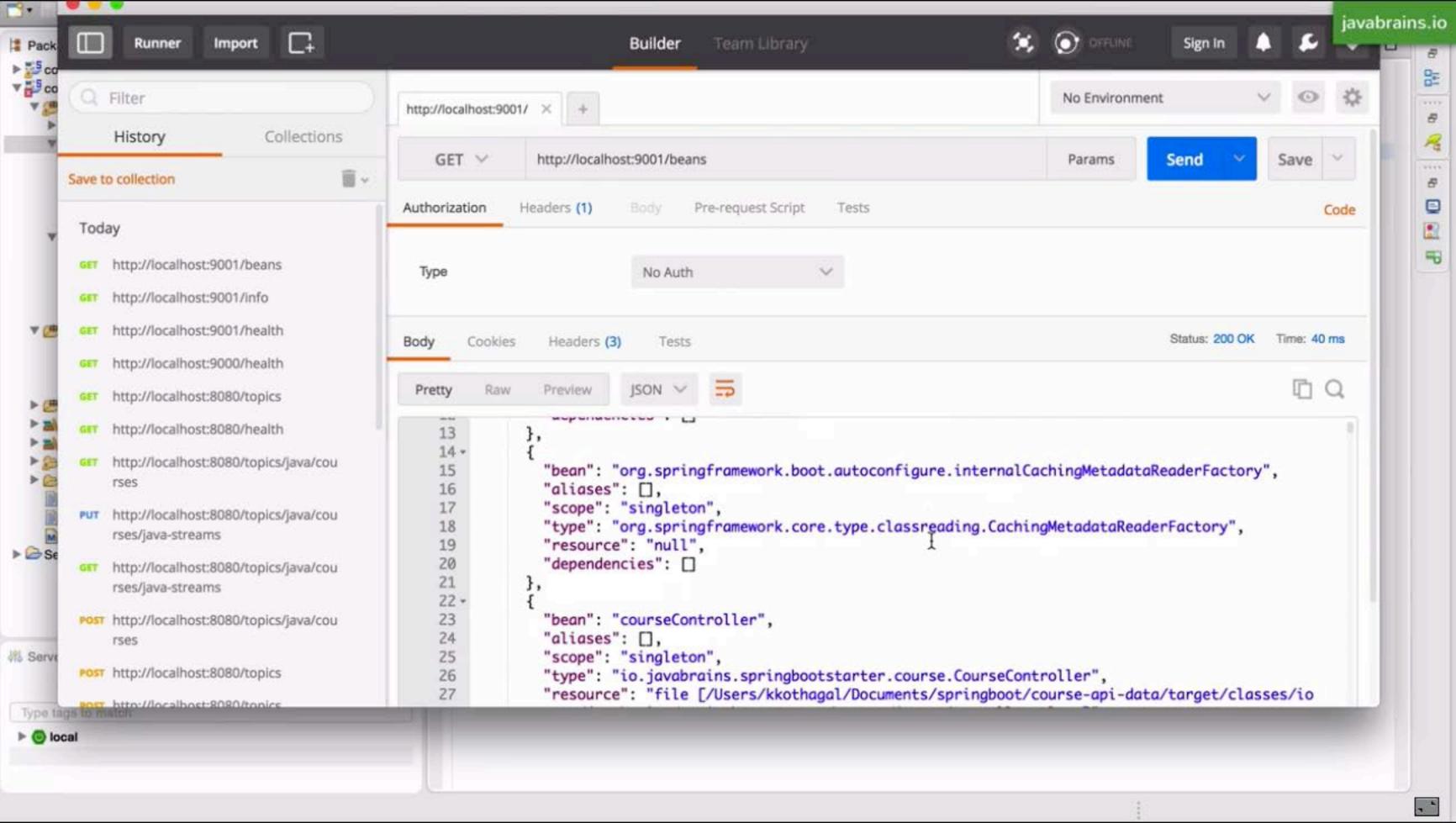
https://spring.io/guides/gs/actuator-service/



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https://spring.io/guides/gs/actuator-service/





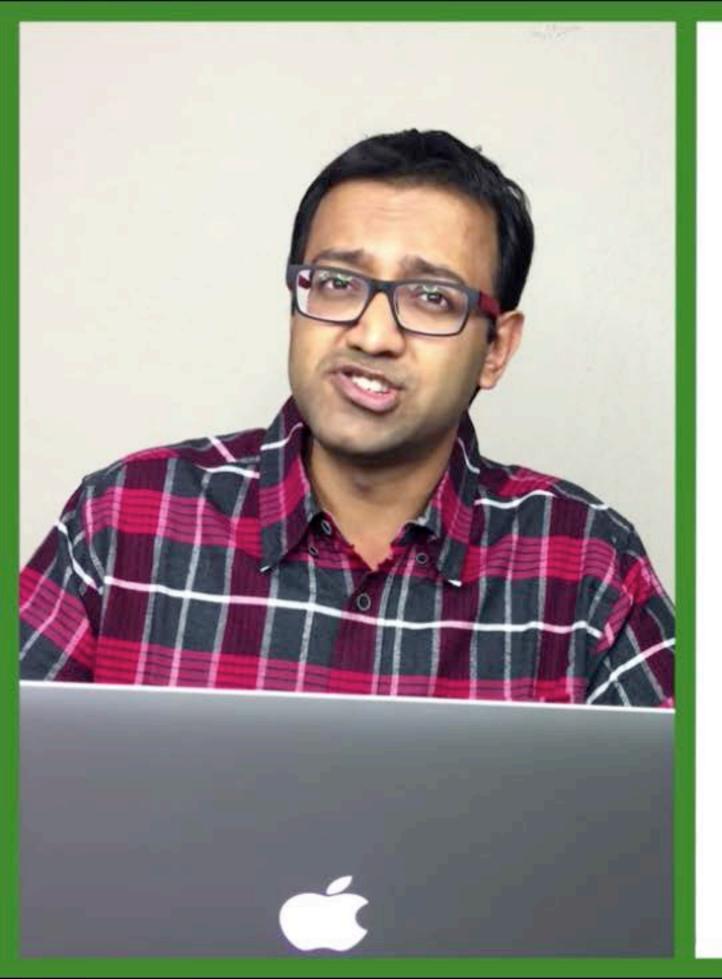
### **Spring Boot Quick Start**

**Spring Framework** 

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#### Summary

```
Unit 1 Starting a Spring Boot App
Unit 2 Spring MVC
Unit 3 Booting Spring Boot
Unit 4 Spring Data JPA
Unit 5 App Execution and Actuator
```



#### **Spring Boot Quick Start**

**Spring Framework** 

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