

Chapter 1: Starting Up

UI Themes → Default plugins → Featured plugins

Set UI theme

IntelliJ Darcula

UI theme can be changed later in Settings | Appearance & Behavior | Appearance

Skip All and Set Defaults Next: Default plugins

Tune IDEA to your tasks

IDEA has a lot of tools enabled by default. You can set only ones you need or leave them all.



Java Frameworks

Google App Engine, Grails, GWT, Vaadin, JBoss Seam...

[Customize...](#) [Disable All](#)



Build Tools

Ant, Maven, Gradle

[Customize...](#) [Disable All](#)



Web Development

HTML, Haml, CSS, Less, Sass, Stylus, JavaScript...

[Customize...](#) [Disable All](#)



Version Controls

ClearCase, CVS, Git, GitHub, hg4idea, Perforce...

[Customize...](#) [Disable All](#)



Test Tools

JUnit, TestNG-J, Cucumber for Java, Coverage

[Customize...](#) [Disable All](#)



Application Servers

Application Servers View, Geronimo, GlassFish, JBoss...

[Customize...](#) [Disable All](#)



Clouds

Cloud Foundry, CloudBees, Heroku, OpenShift

[Customize...](#) [Disable All](#)



Swing

UI Designer

[Disable](#)



Android

Android

[Disable](#)

[Skip Remaining and Set Defaults](#)

[Back to UI Themes](#)

[Next: Featured plugins](#)

Download featured plugins

We have a few plugins in our repository that most users like to download. Perhaps, you need them too?

Scala

Custom Languages

Plugin for Scala language support

Install

Live Edit Tool

Web Development


Provides live edit HTML/CSS/JavaScript

Install

IdeaVim

Editor

Emulates Vim editor

 Recommended only if you are familiar with Vim.

Install and Enable

NodeJS

JavaScript

Node.js integration

Install

Angular

Web Development

Angular 1&2 support

Install

New plugins can also be downloaded in Settings | Plugins

Skip Remaining and Set Defaults


Back to Default plugins

Start using IntelliJ IDEA





IntelliJ IDEA



Version 2017.2 EAP (172.3198.6)

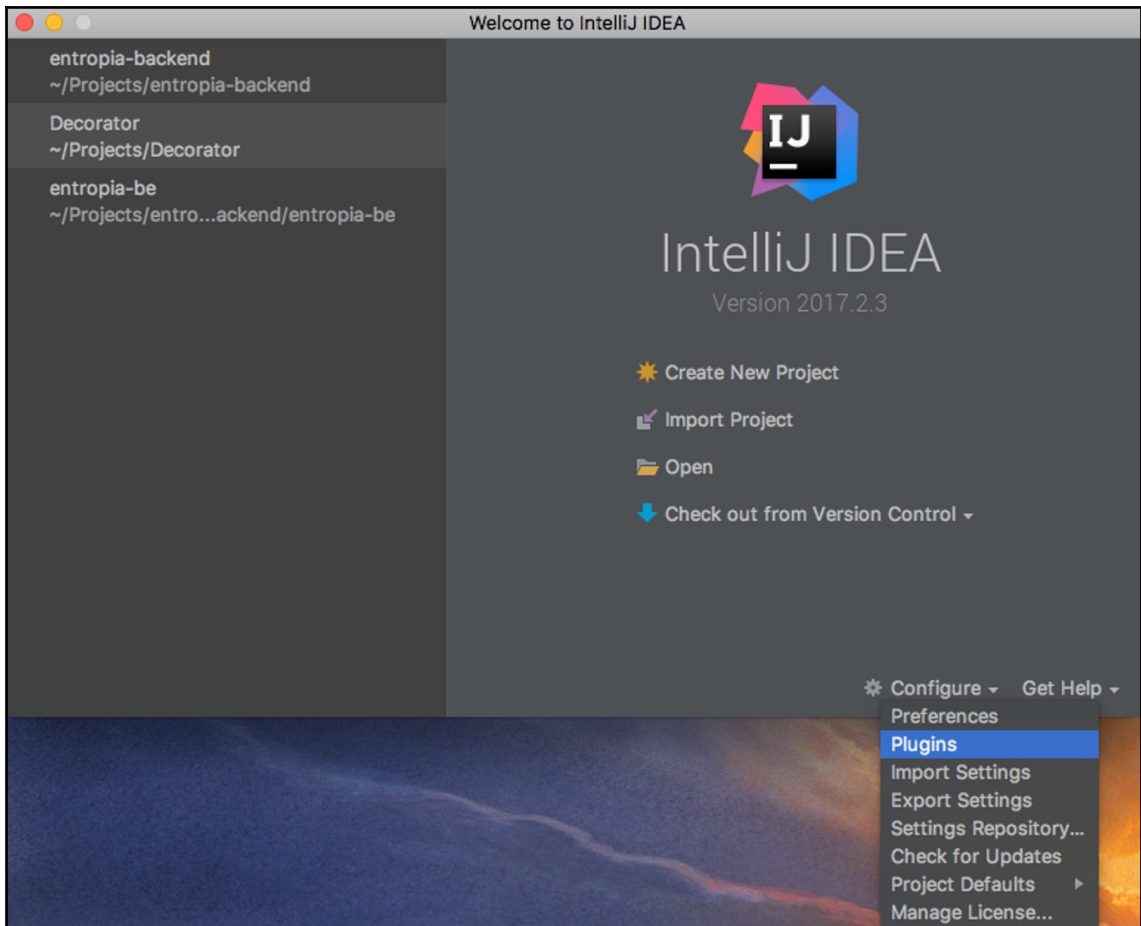
 Create New Project

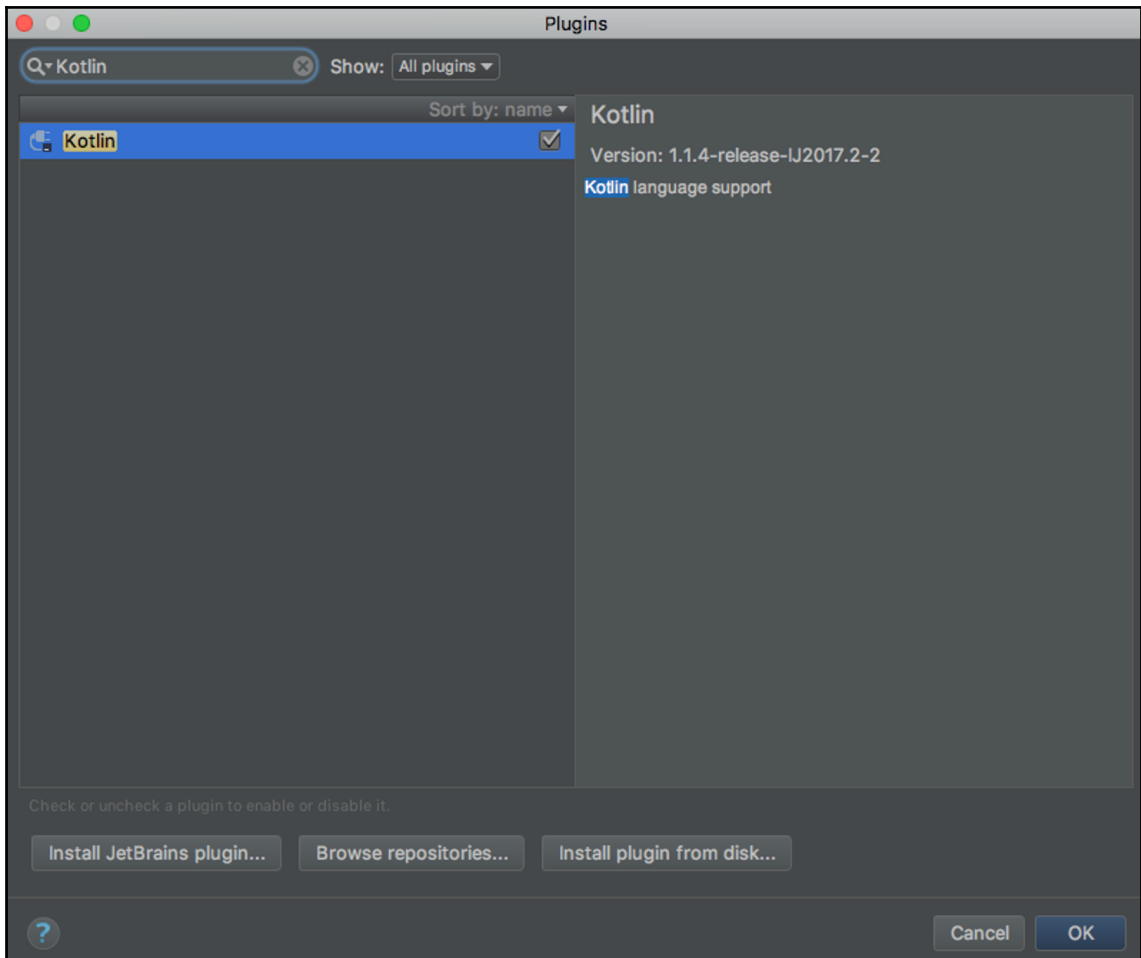
 Import Project

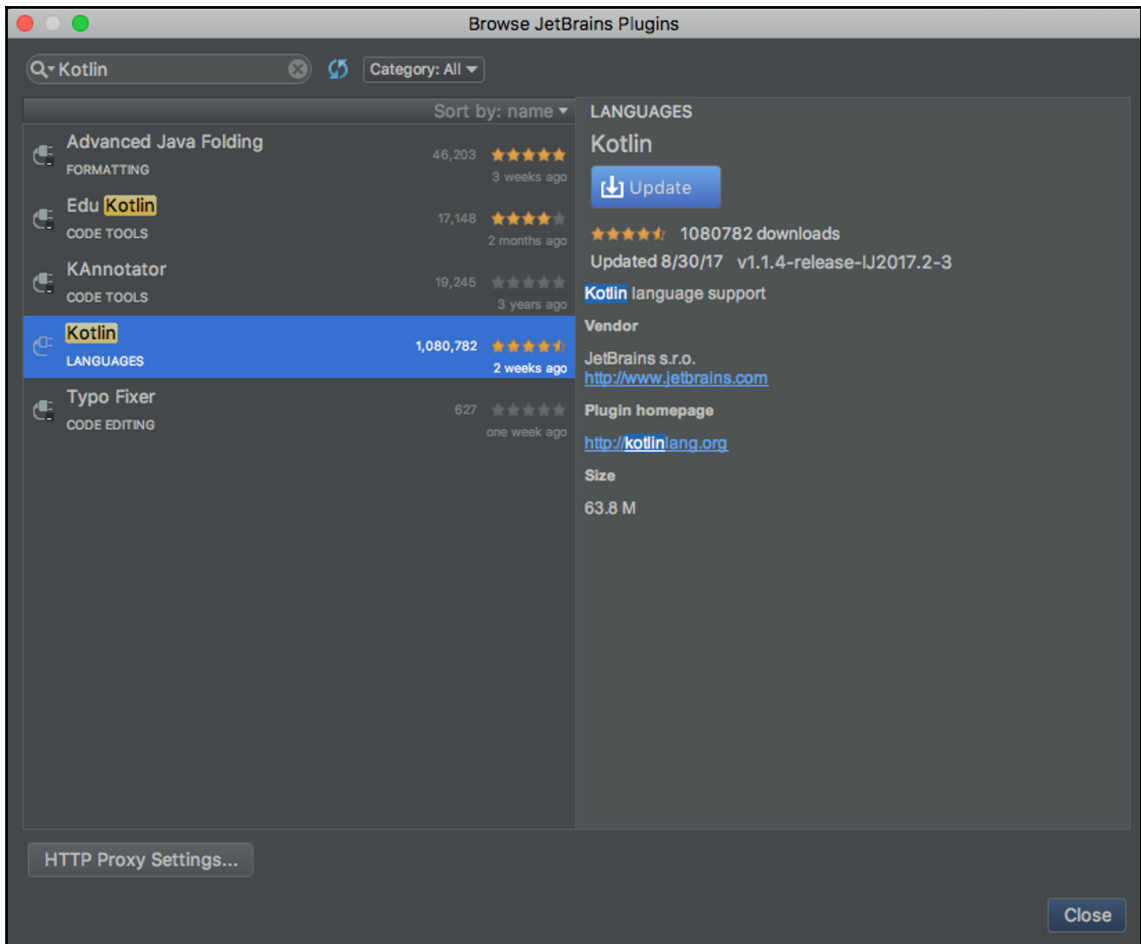
 Open

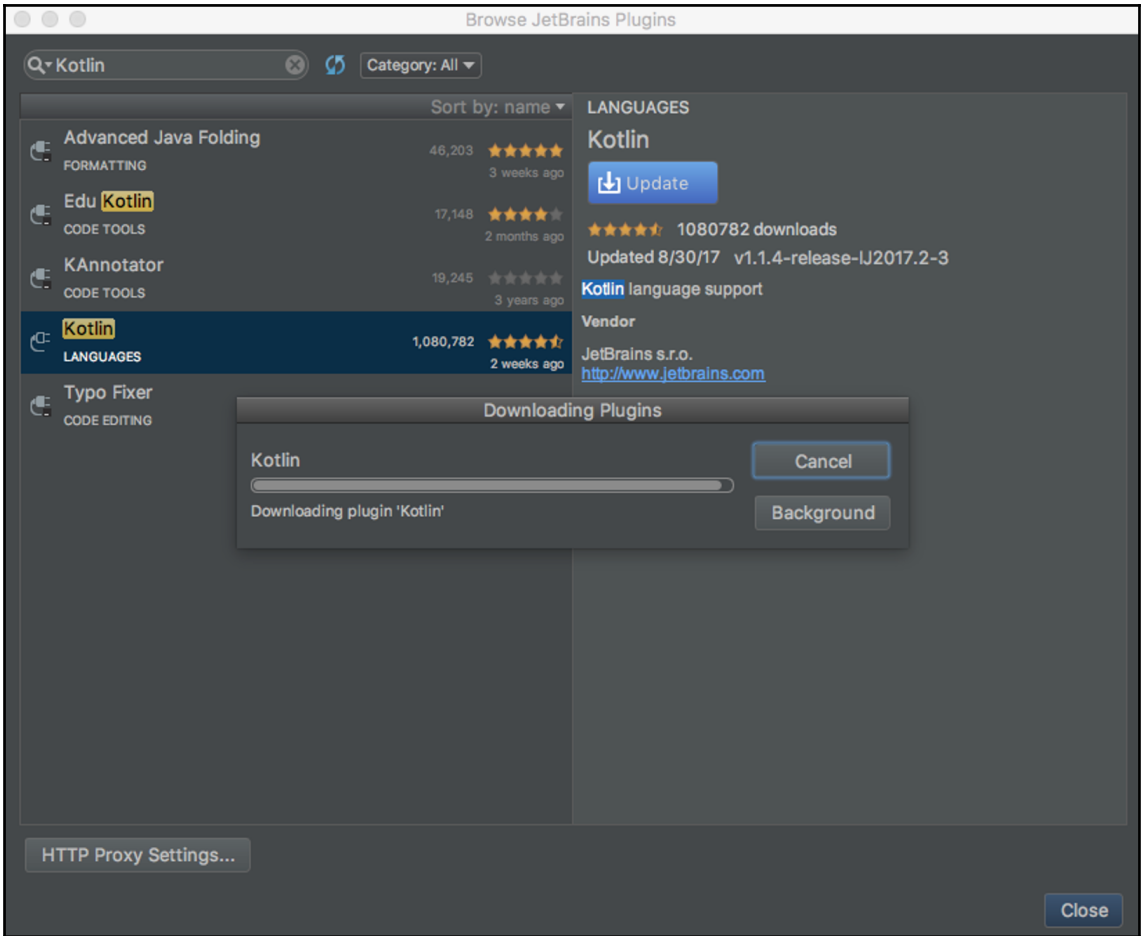
 Check out from Version Control ▾

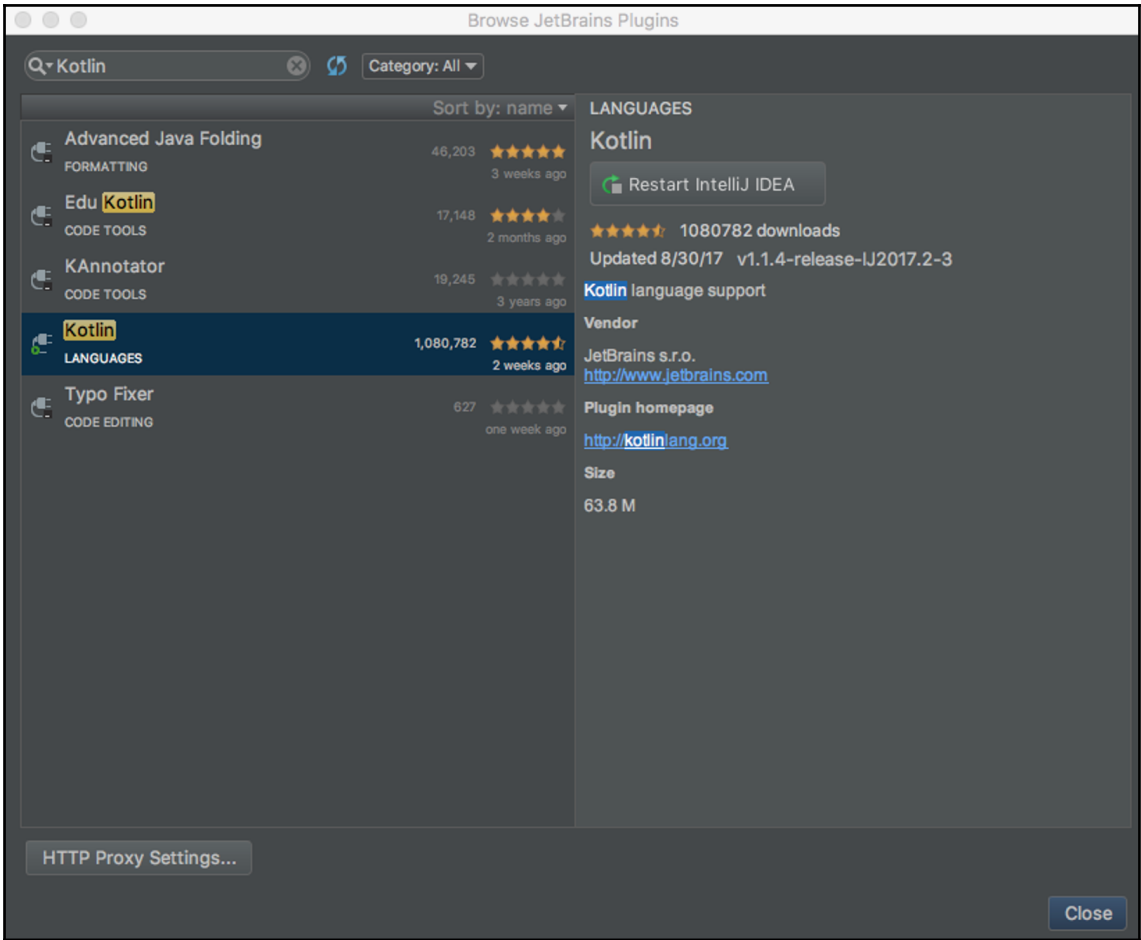
 Configure ▾  Get Help ▾














Postman

offered by www.getpostman.com

★★★★★ (8644) | [Developer Tools](#) | 3,907,963 users

↑ LAUNCH APP

↔

OVERVIEW

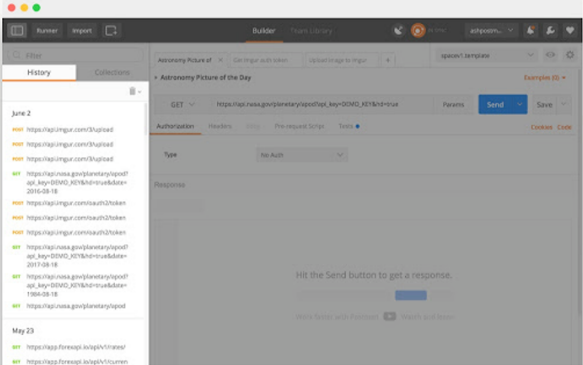
REVIEWS

SUPPORT

RELATED

G+

Request history



⚡ Runs Offline

📱 Compatible with your device

Postman makes API development faster, easier, and better. The free app is used by more than 3.5 million developers and 30,000...

Postman makes API development faster, easier, and better. The free app is used by more than 3.5 million developers and 30,000 companies worldwide. Postman is designed with the developer in mind, and packed with features and options.



Postman features include:

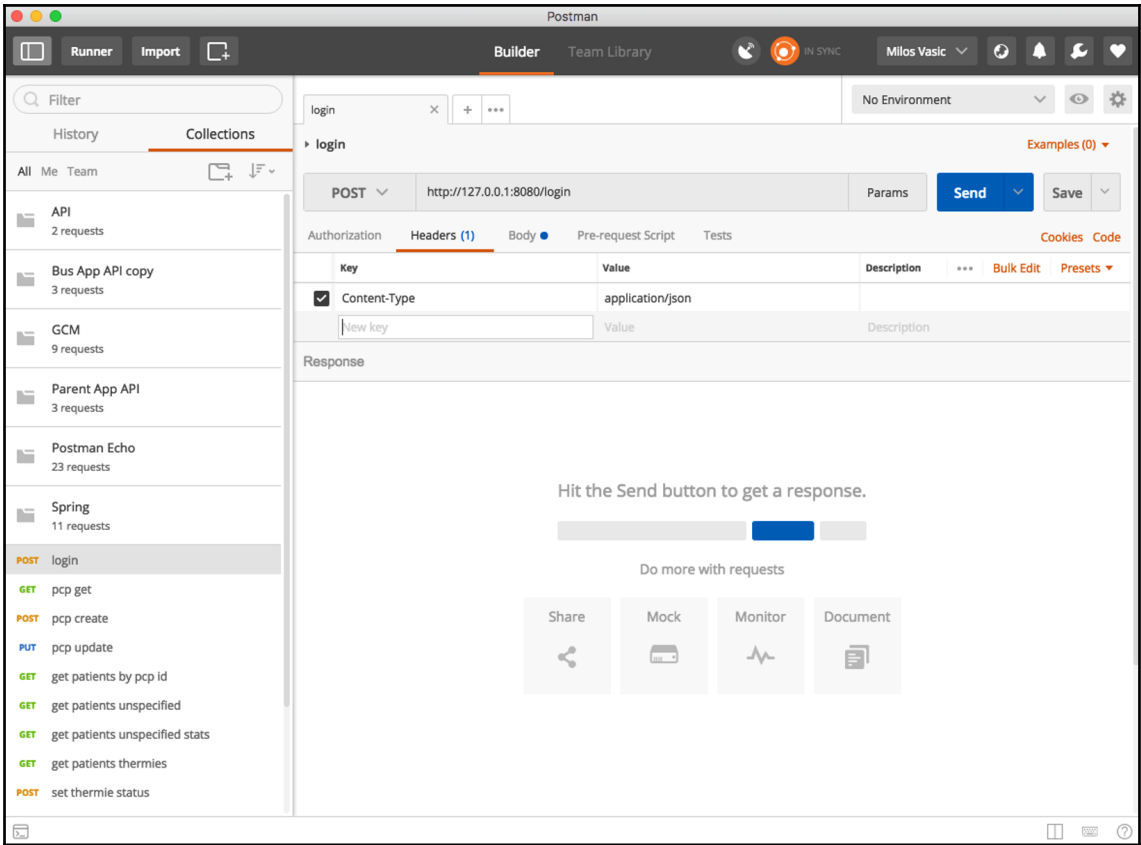
- 🏠 Website
- 🚩 Report Abuse

Additional Information

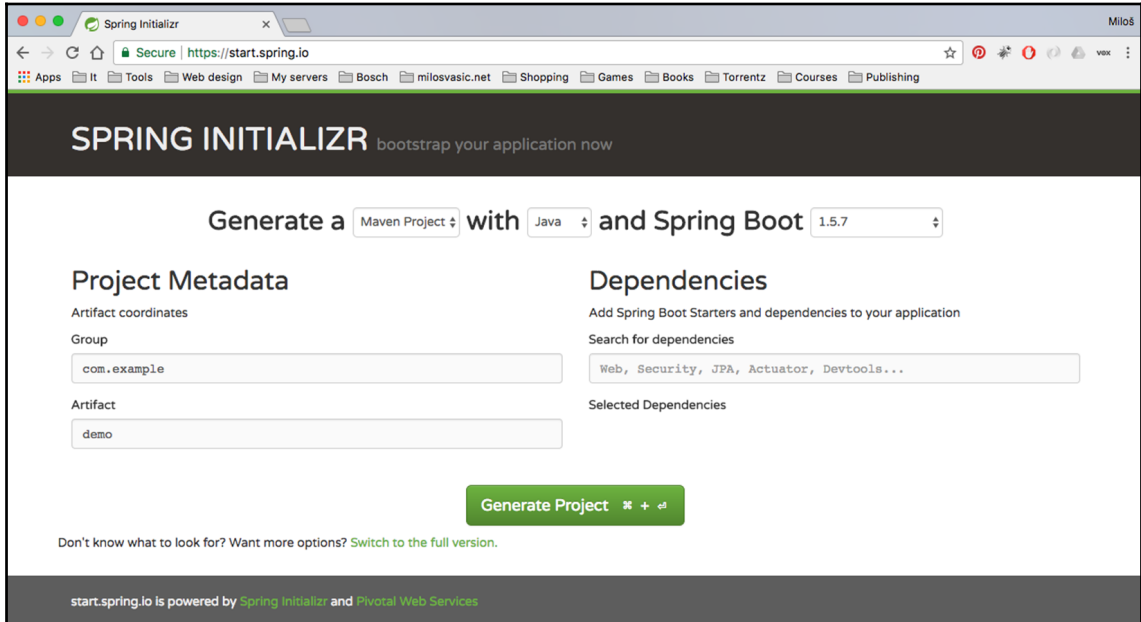
Version: 5.2.0
 Updated: August 30, 2017
 Size: 6.3MiB
 Language: English

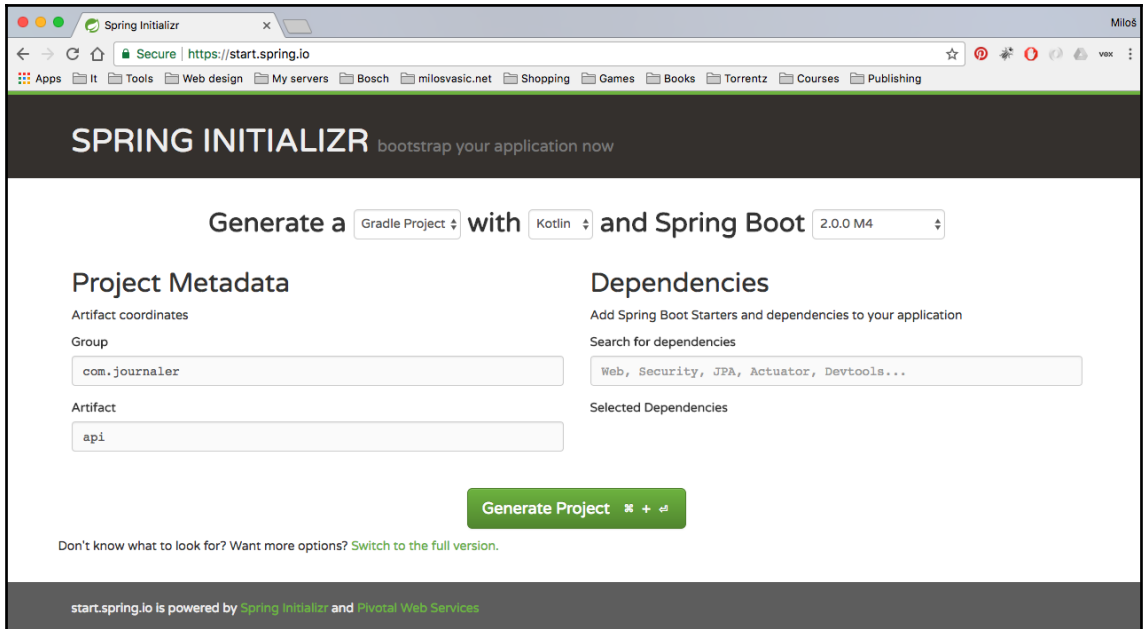
USERS OF THIS APP HAVE ALSO USED

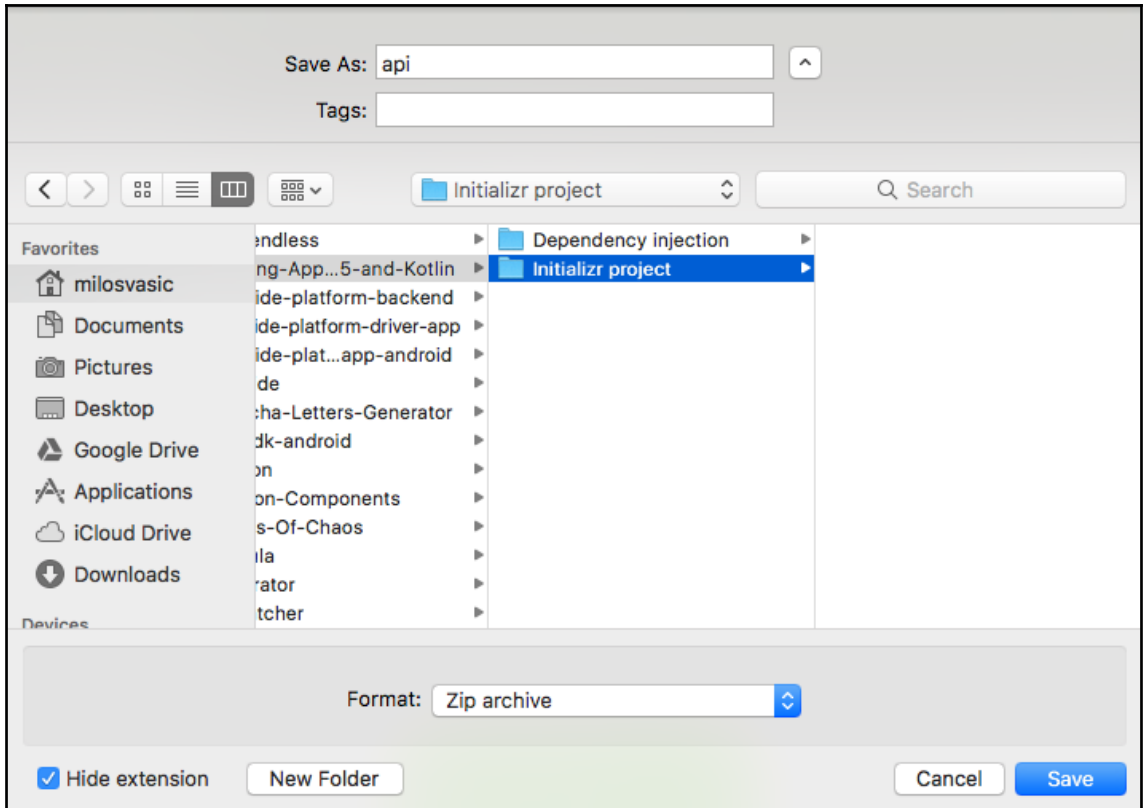
<div style="display: flex; align-items: center; justify-content: center;"> ← <div style="margin: 0 5px;"> Advanced REST client <small>★★★★★ (12172)</small> </div> <div style="margin: 0 5px; font-size: 1.5em;">↑</div> </div>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin: 0 5px;"> OMG! Ubuntu! <small>★★★★★ (227)</small> </div> <div style="margin: 0 5px; font-size: 1.5em;">↑</div> </div>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin: 0 5px;">  </div> <div style="margin: 0 5px;"> WorkFlow <small>★★★★★ (1214)</small> </div> <div style="margin: 0 5px; font-size: 1.5em;">↑</div> </div>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin: 0 5px;">  </div> <div style="margin: 0 5px;"> Google Apps Script <small>★★★★★ (984)</small> </div> <div style="margin: 0 5px; font-size: 1.5em;">→</div> </div>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

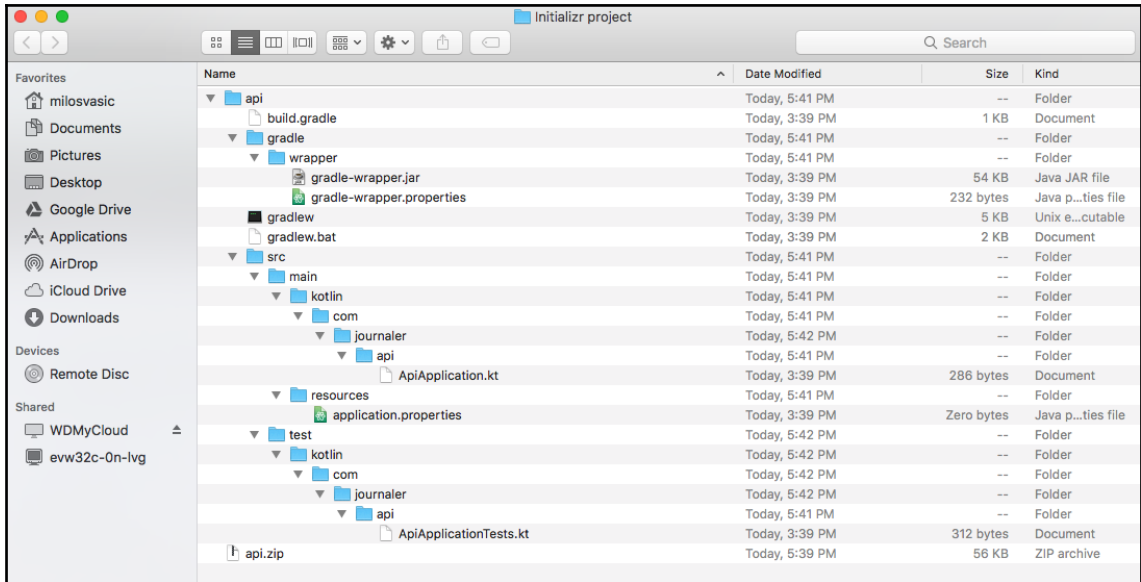


Chapter 2: Starting with Spring





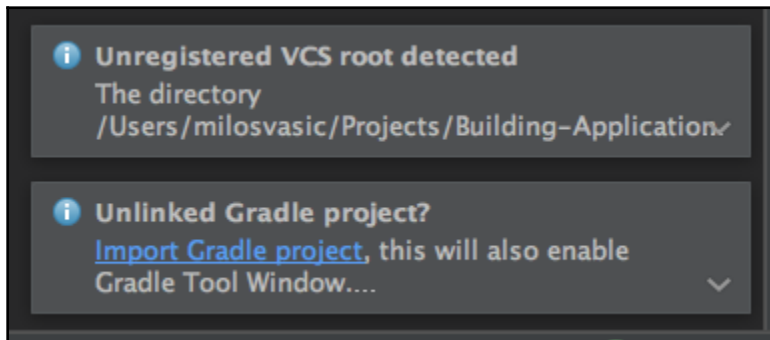
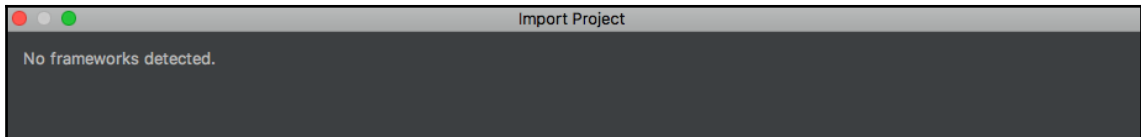
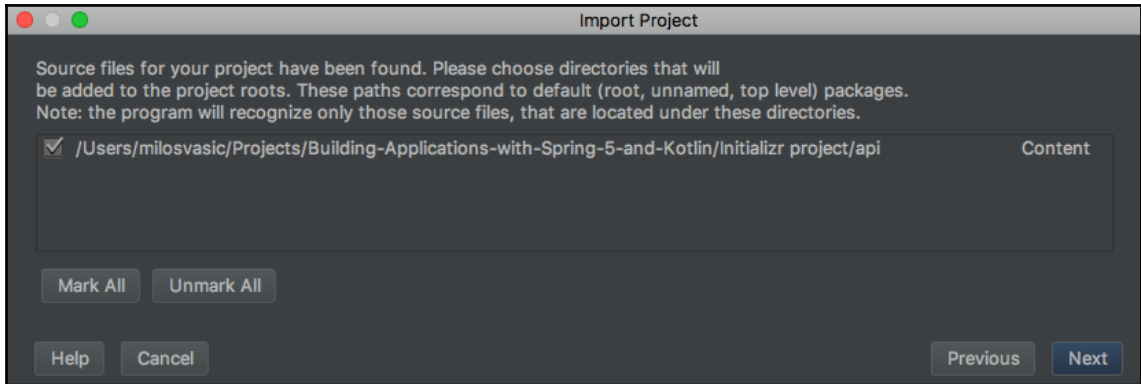


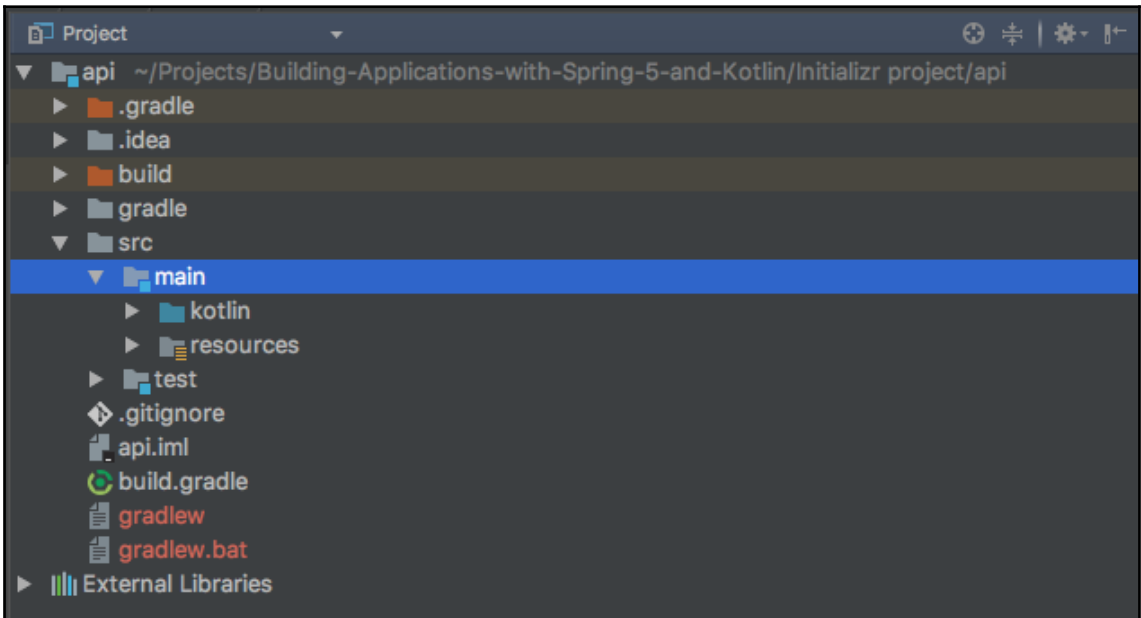
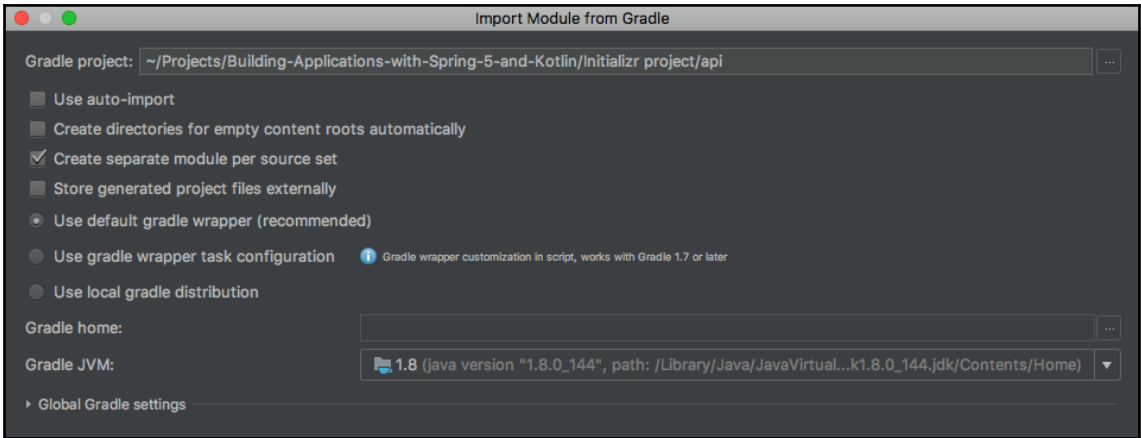


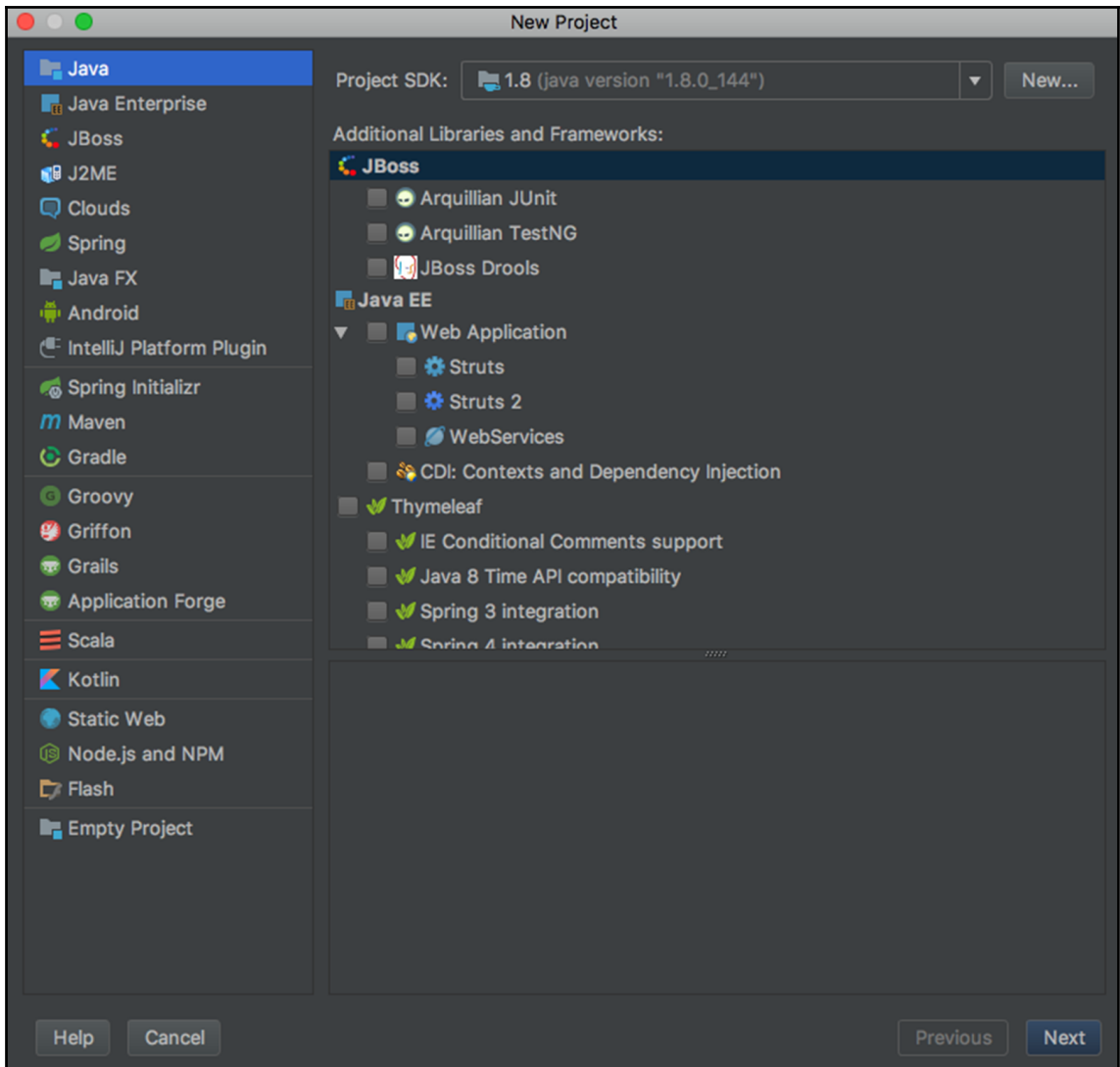
```
BUILD SUCCESSFUL in 22s
1 actionable task: 1 executed
Sethanon:api milosvasic$
```

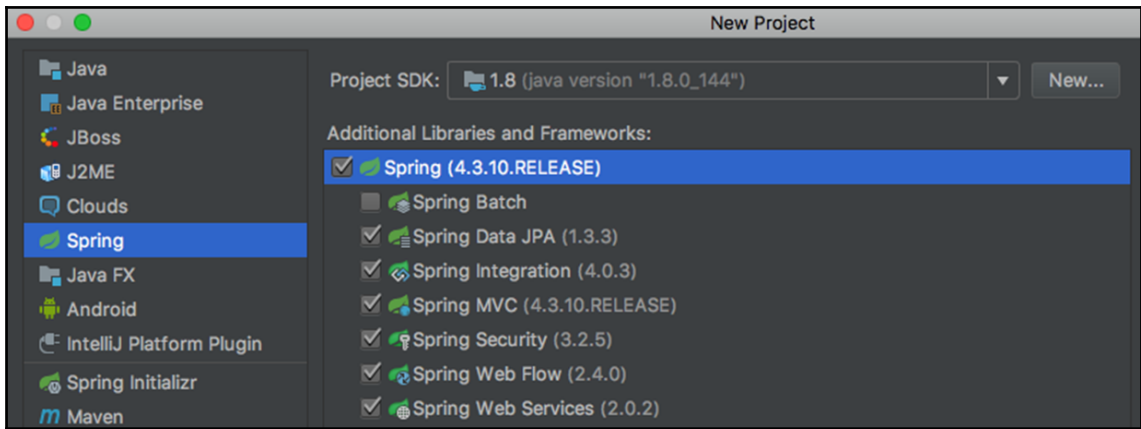
```
> Task :compileKotlin
Using kotlin incremental compilation

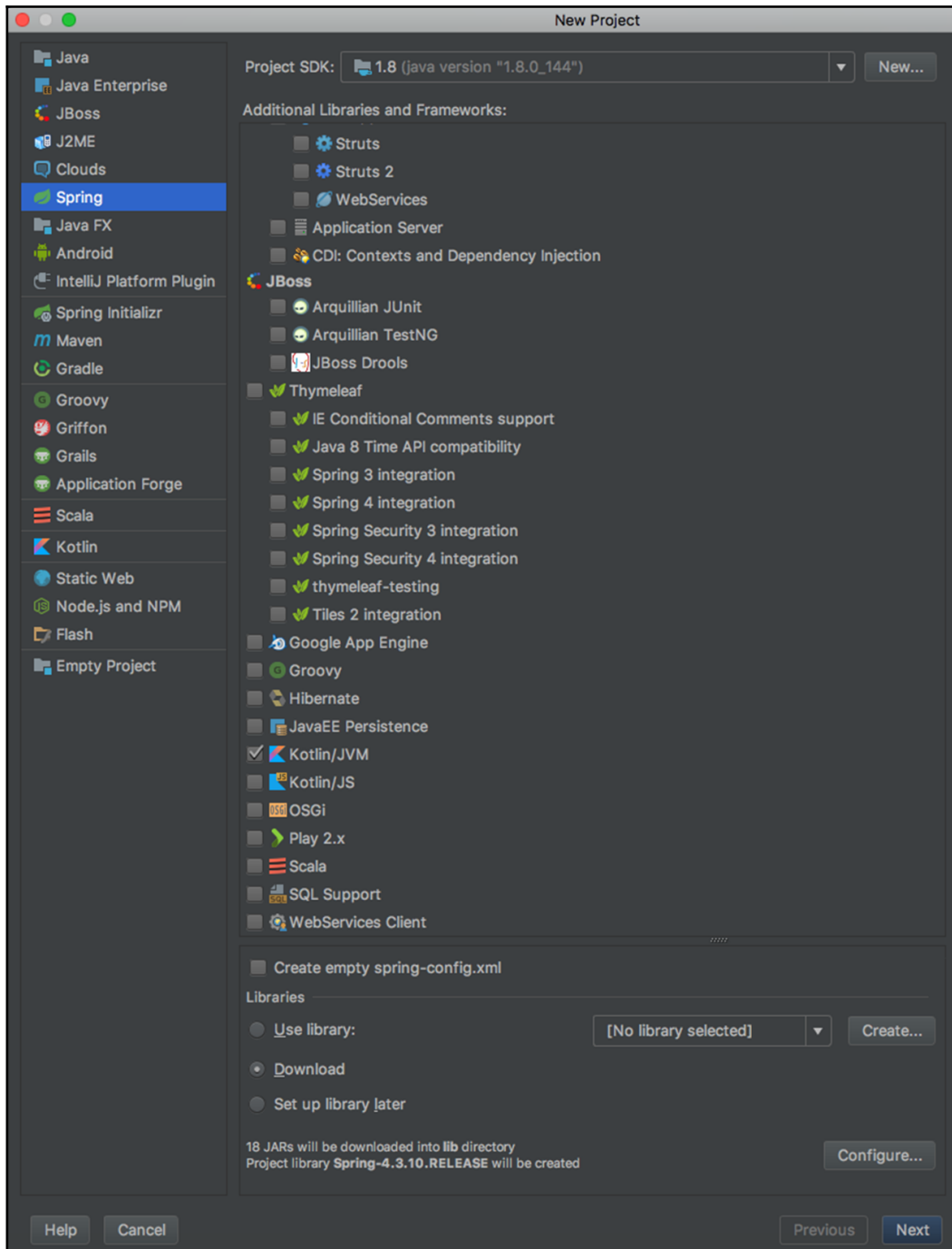
BUILD SUCCESSFUL in 10s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$
```









! Lombok Requires Annotation Processing ⚙️ ✕

Annotation processing seems to be disabled for..v

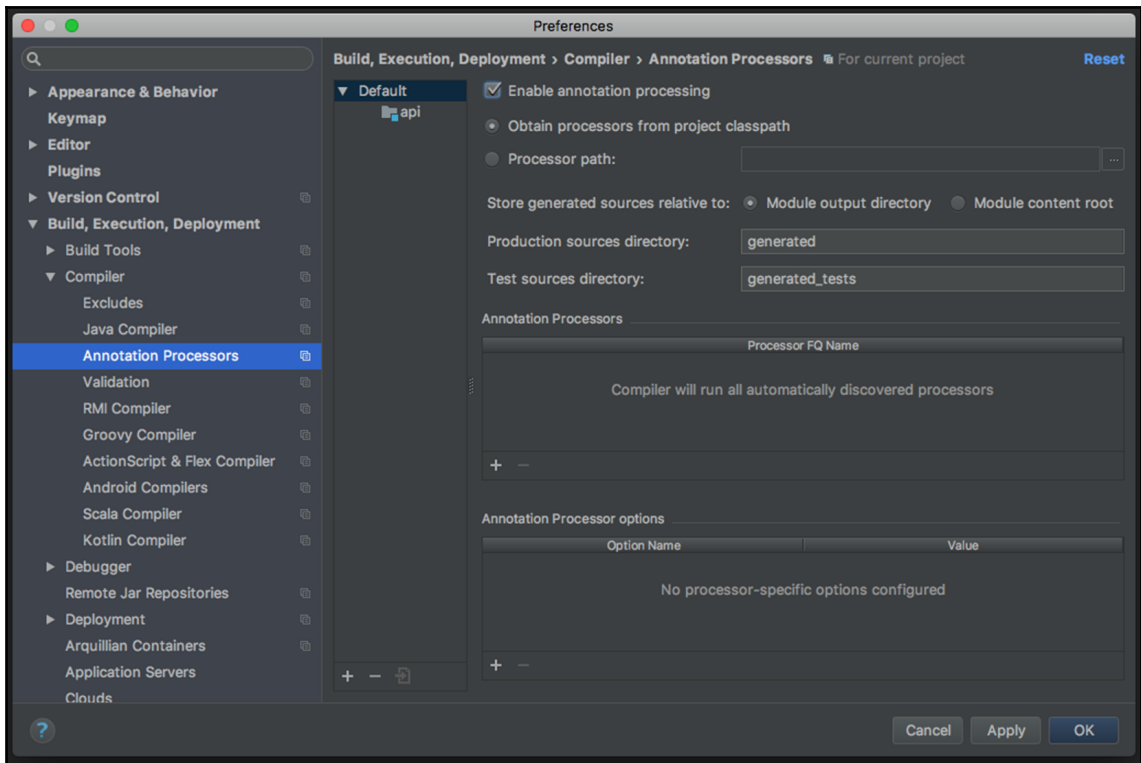
! Lombok Requires Annotation Processing ⚙️ ✕

Annotation processing seems to be disabled for the project "api".

For the plugin to function correctly, please enable it under

["Settings > Build > Compiler > Annotation Processors"](#)



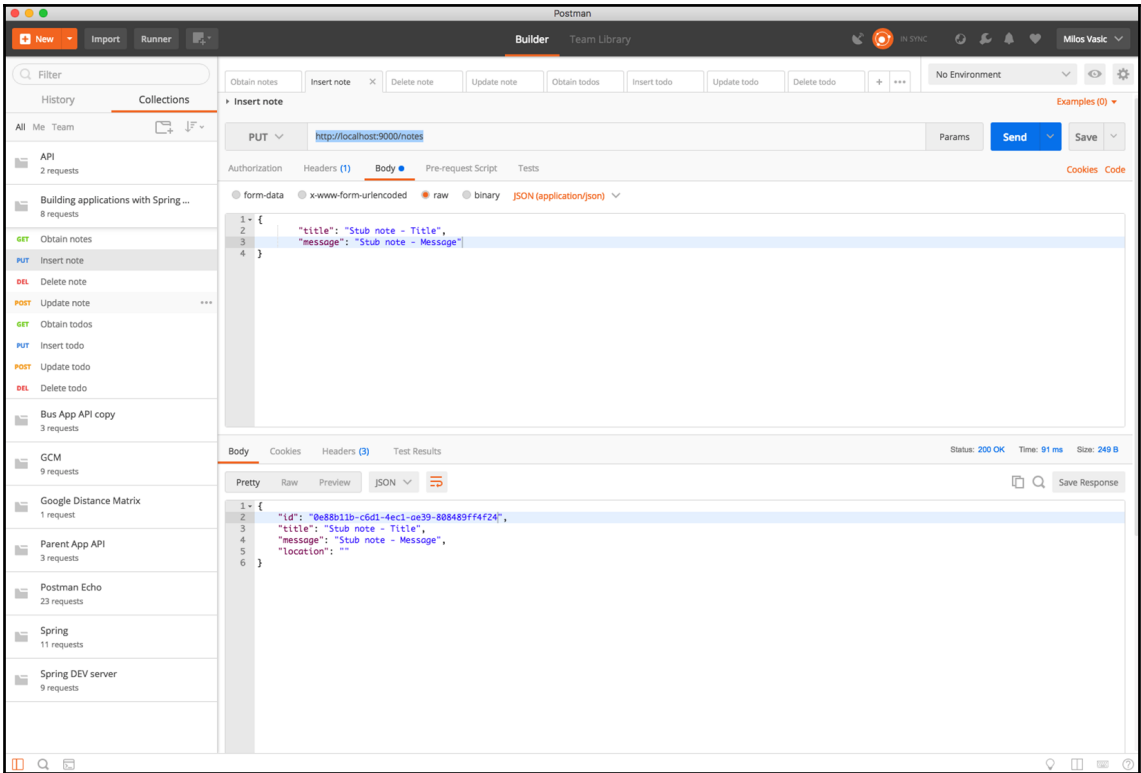


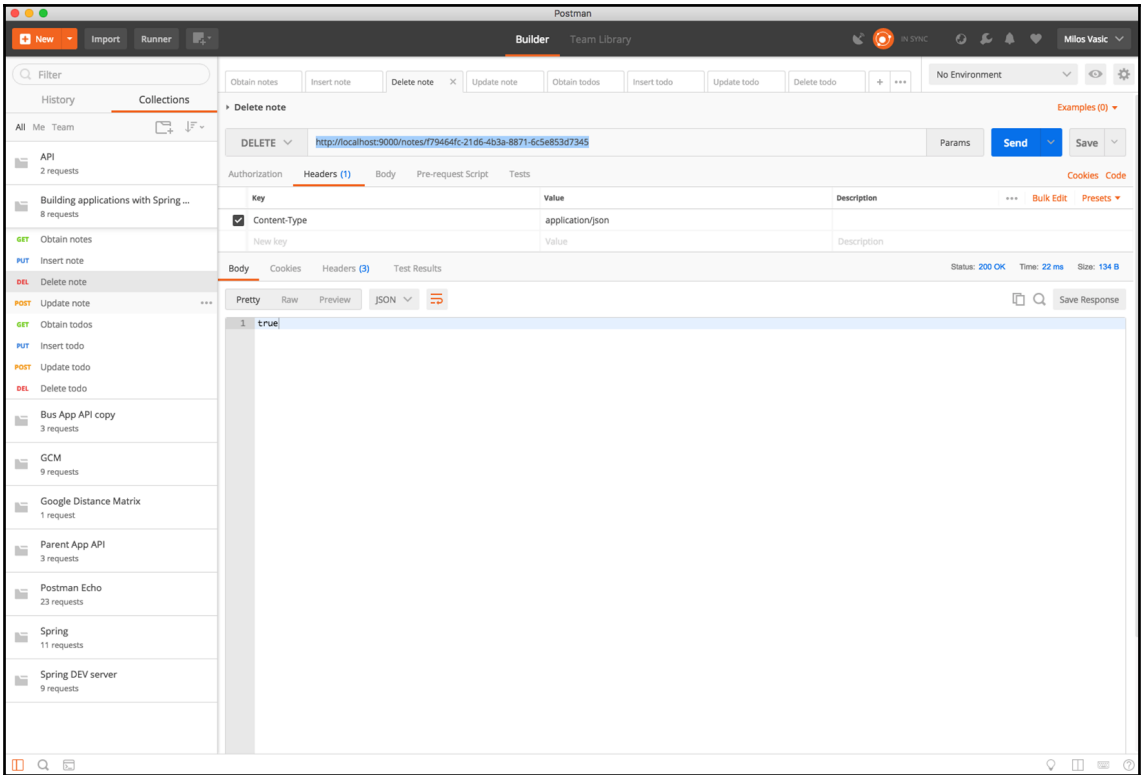
Chapter 3: Building Your First Spring RESTful Service with Kotlin

```
2018-05-11 11:57:10.874 INFO 3340 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Registering beans for JMX exposure on startup
2018-05-11 11:57:11.638 INFO 3340 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 9000 (http)
2018-05-11 11:57:11.663 INFO 3340 --- [main] com.journaler.api.ApiApplicationKt : Started ApiApplicationKt in 21.007 seconds (JVM running for 26.73s)
```

The screenshot shows the Postman application interface. The main area displays a REST client configuration for a GET request to `http://localhost:9000/notes`. The request is successful, returning a 200 OK status with a response time of 160 ms and a size of 398 B. The response body is shown in JSON format, containing an array of two note objects:

```
1 [
2   {
3     "id": "7f3181eo-30d6-413c-878f-21808f3964f3",
4     "title": "My first note",
5     "message": "This is a message for the 1st note.",
6     "location": ""
7   },
8   {
9     "id": "609f2bo6-cf42-4e7e-a438-059623095bc4",
10    "title": "My second note",
11    "message": "This is a message for the 2nd note.",
12    "location": ""
13  }
14 ]
```



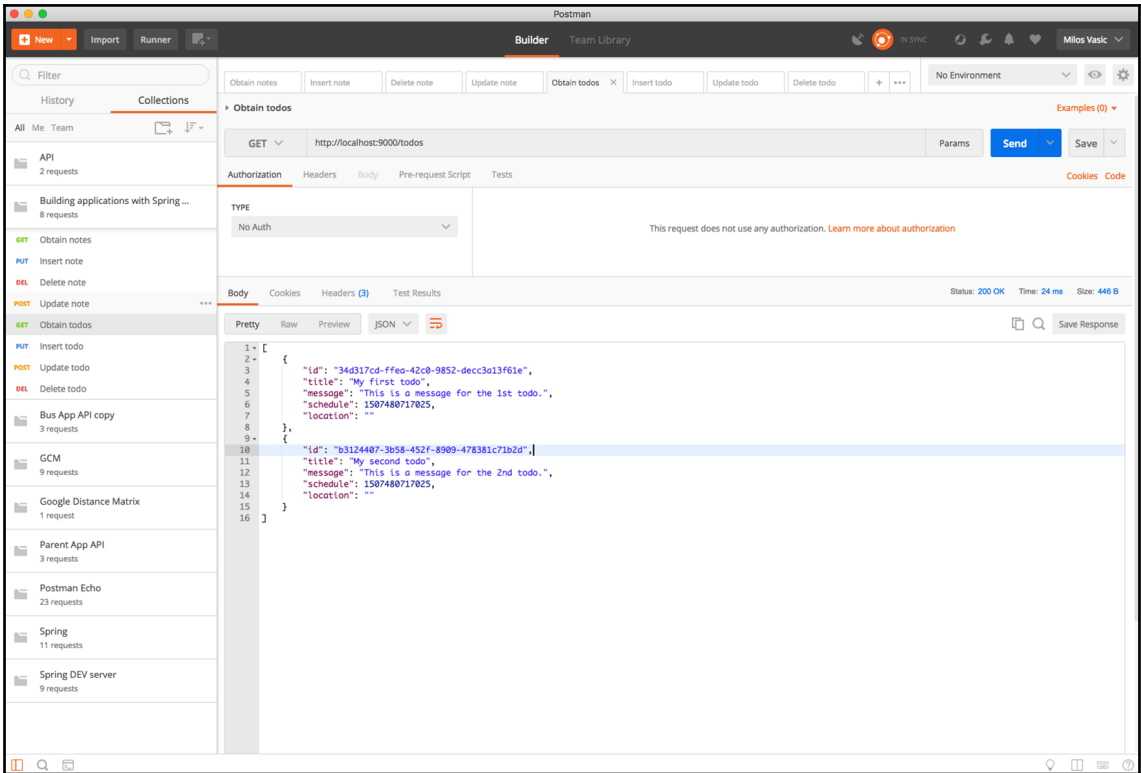
The screenshot displays the Postman application interface. The main workspace shows a REST client request configuration for the endpoint `http://localhost:9000/notes` using the `POST` method. The request body is a JSON object:

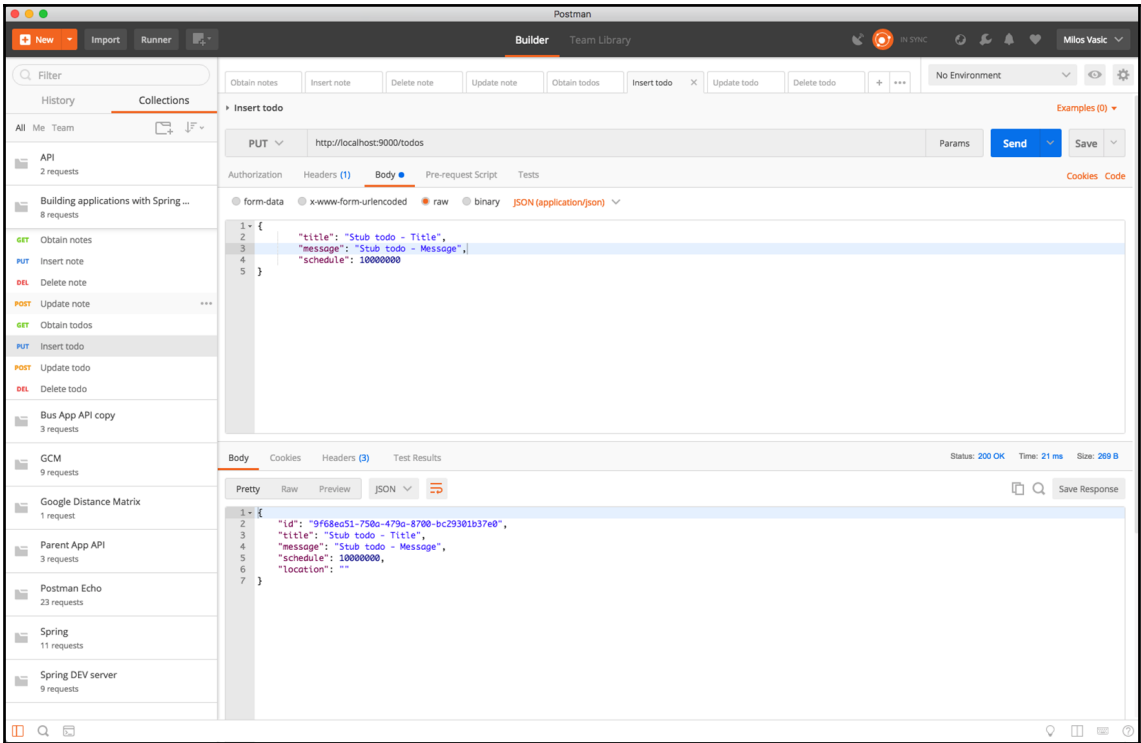
```
1- {
2-   "id": "38158621-3e63-44c2-b934-8dcc2c5b7dca",
3-   "title": "My First note ...",
4-   "message": "This is a message for the 1st note ...",
5-   "location": ""
6- }
```

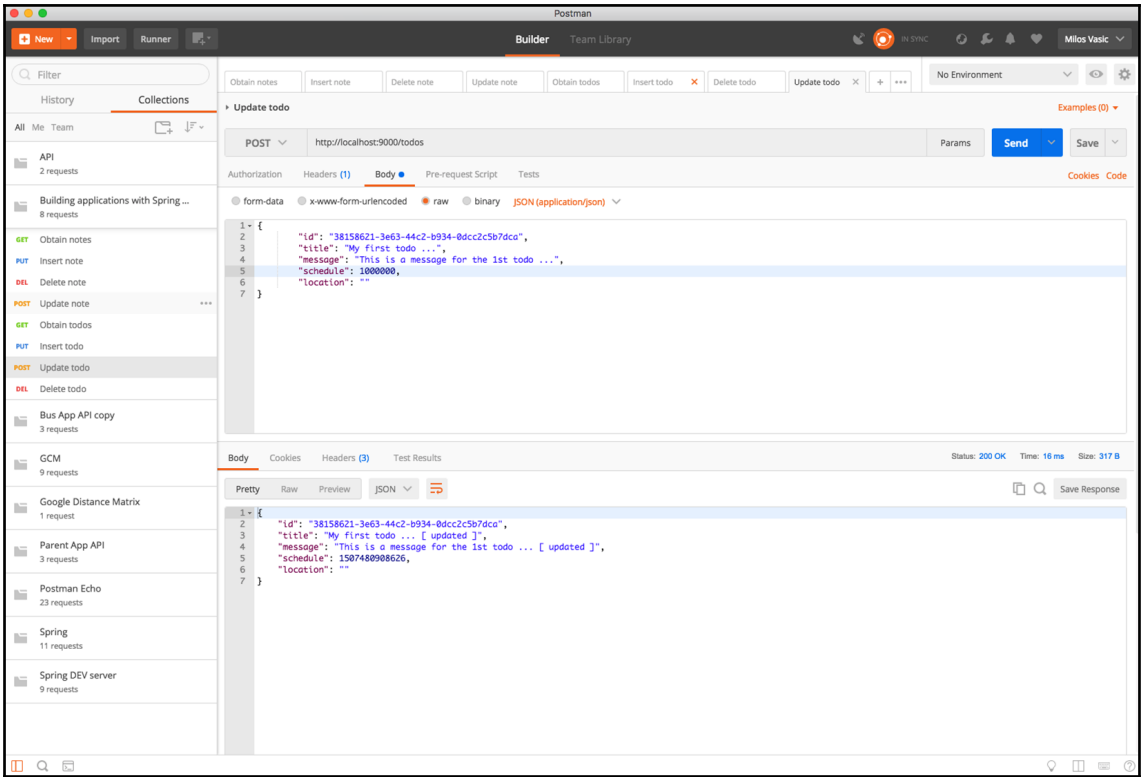
The response is displayed in the 'Body' tab, showing the updated JSON object:

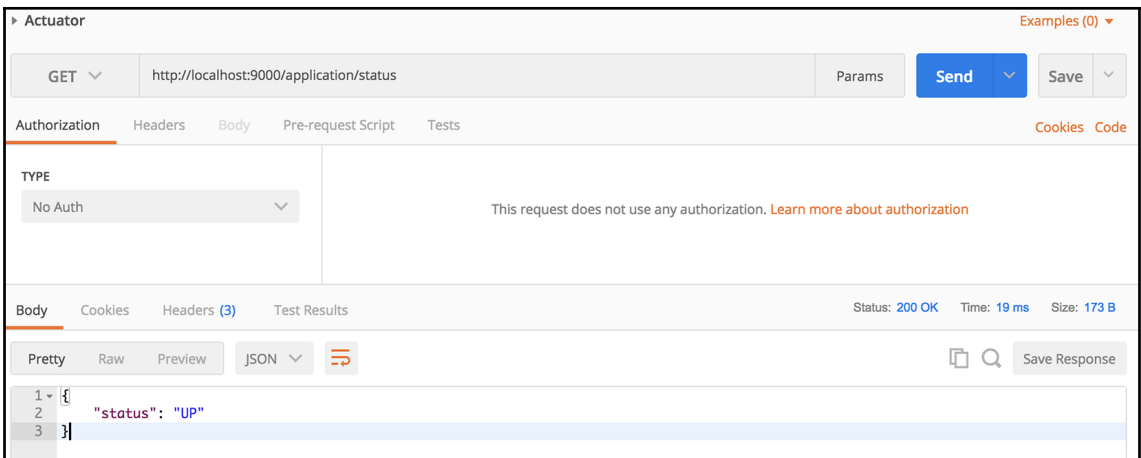
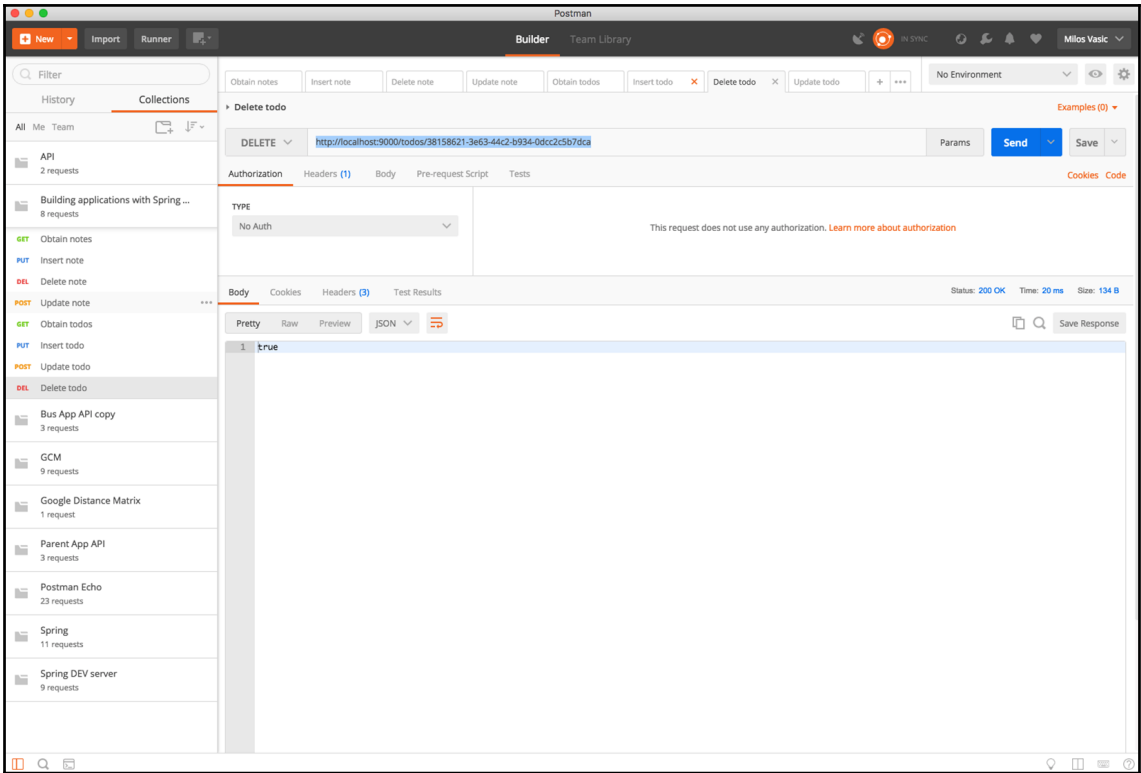
```
1- {
2-   "id": "38158621-3e63-44c2-b934-8dcc2c5b7dca",
3-   "title": "My First note ... [updated]",
4-   "message": "This is a message for the 1st note ... [updated]",
5-   "location": ""
6- }
```

The status bar at the bottom indicates a successful response with a status of `200 OK`, a time of `21 ms`, and a size of `262 B`.









Actuator Examples (0) ▾

GET ▾ Params Send ▾ Save ▾



Authorization Headers Body Pre-request Script Tests Cookies Code

TYPE
No Auth ▾ This request does not use any authorization. [Learn more about authorization](#)

Body Cookies Headers (3) Test Results Status: 200 OK Time: 19 ms Size: 287 B



Pretty Raw Preview JSON ▾ Save Response

```
1 - {
2   "status": "UP",
3   "details": {
4     "diskSpace": {
5       "status": "UP",
6       "details": {
7         "total": 498954403840,
8         "free": 320957816832,
9         "threshold": 10485760
10      }
11    }
12  }
13 }
```


Actuator ● + ... No Environment ▼  

GET ▼ http://localhost:9000/application/metrics Params Send ▼ Save ▼

Body Cookies Headers (3) Test Results Status: 200 OK Time: 17 ms Size: 806 B

Pretty Raw Preview JSON ▼   Save Response

```
1 {
2   "names": [
3     "jvm.memory.used",
4     "jvm.buffer.memory.used",
5     "jvm.buffer.count",
6     "logback.events",
7     "process.uptime",
8     "jvm.memory.max",
9     "jvm.memory.max",
10    "jvm.memory.max",
11    "jvm.memory.committed",
12    "jvm.buffer.total.capacity",
13    "jvm.memory.max",
14    "logback.events",
15    "jvm.memory.committed",
16    "jvm.memory.used",
17    "jvm.buffer.total.capacity",
18    "jvm.buffer.count",
19    "jvm.memory.used",
20    "jvm.memory.used",
21    "jvm.memory.committed",
22    "process.starttime",
23    "jvm.memory.max",
24    "jvm.memory.max",
25    "jvm.memory.used",
26    "logback.events",
27    "logback.events",
28    "http.server.requests",
29    "jvm.memory.committed",
30    "jvm.memory.used",
31    "jvm.memory.committed",
32    "jvm.memory.committed",
33    "logback.events",
34    "jvm.buffer.memory.used"
35  ]
36 }
```

Actuator No Environment

GET http://localhost:9000/application/trace Params Send Save

Body Cookies Headers (3) Test Results Status: 200 OK Time: 35 ms Size: 887 B

Pretty Raw Preview JSON Save Response

```
1 - {
2 -   "traces": [
3 -     {
4 -       "timestamp": 1507531759529,
5 -       "info": {
6 -         "method": "GET",
7 -         "path": "/notes",
8 -         "headers": {
9 -           "request": {
10 -            "host": "localhost:9000",
11 -            "connection": "keep-alive",
12 -            "cache-control": "max-age=0",
13 -            "user-agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/61.0.3163.100 Safari/537.36",
14 -            "upgrade-insecure-requests": "1",
15 -            "accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8",
16 -            "accept-encoding": "gzip, deflate, br",
17 -            "accept-language": "en-US,en;q=0.8,hr;q=0.6,mk;q=0.4,sl;q=0.2,sr;q=0.2,nb;q=0.2"
18 -          },
19 -          "response": {
20 -            "Content-Type": "application/json;charset=UTF-8",
21 -            "Transfer-Encoding": "chunked",
22 -            "Date": "Mon, 09 Oct 2017 06:49:19 GMT",
23 -            "status": "200"
24 -          }
25 -        },
26 -       "timeTaken": "148"
27 -     }
28 -   ]
29 - }
30 }
```

Chapter 4: Working with Spring Data JPA and MySQL

The screenshot shows a web browser window with the URL <https://dev.mysql.com/downloads/mysql/>. The page is titled "Download MySQL Community Server". The MySQL logo is visible in the top left, with the tagline "The world's most popular open source database". The navigation menu includes "MYSQL.COM", "DOWNLOADS" (which is highlighted), "DOCUMENTATION", and "DEVELOPER ZONE". A secondary navigation bar shows "Enterprise", "Community" (highlighted), "Yum Repository", "APT Repository", "SUSE Repository", "Windows", and "Archives".

The main content area features a sidebar on the left with a list of download options: MySQL on Windows, MySQL Yum Repository, MySQL APT Repository, MySQL SUSE Repository, MySQL Community Server (highlighted), MySQL Cluster, MySQL Router, MySQL Utilities, MySQL Shell, MySQL Workbench, MySQL Connectors, and Other Downloads.

The main content area has a heading "Download MySQL Community Server" and a paragraph: "MySQL Community Edition is a freely downloadable version of the world's most popular open source database that is supported by an active community of open source developers and enthusiasts." Below this, it states: "MySQL Cluster Community Edition is available as a separate download. The reason for this change is so that MySQL Cluster can provide more frequent updates and support using the latest sources of MySQL Cluster Carrier Grade Edition."

There is a blue callout box on the right that says: "MySQL open source software is provided under the GPL License. OEMs, ISVs and VARs can purchase commercial licenses."

Below the main text, there is a blue box with a plus icon and the text "Important Platform Support Updates".

At the bottom, there are two sections: "Online Documentation:" with links for "Installation Instructions, Documentation and Change History for the MySQL 5.7 Generally Available (GA) Release" and "Installation Instructions, Documentation and Change History"; and "Looking for previous GA versions?" with links for "MySQL Community Server 5.6", "MySQL Community Server 5.5", and "Archived versions".

MySQL :: Download MySQL Co x

Secure | <https://dev.mysql.com/downloads/mysql/>

Apps | It | Tools | Web design | My servers | Bosch | milosvasic.net | Shopping | Games | Books | Torrentz | Courses | Publishing

Generally Available (GA) Releases | Development Releases

MySQL Community Server 5.7.19

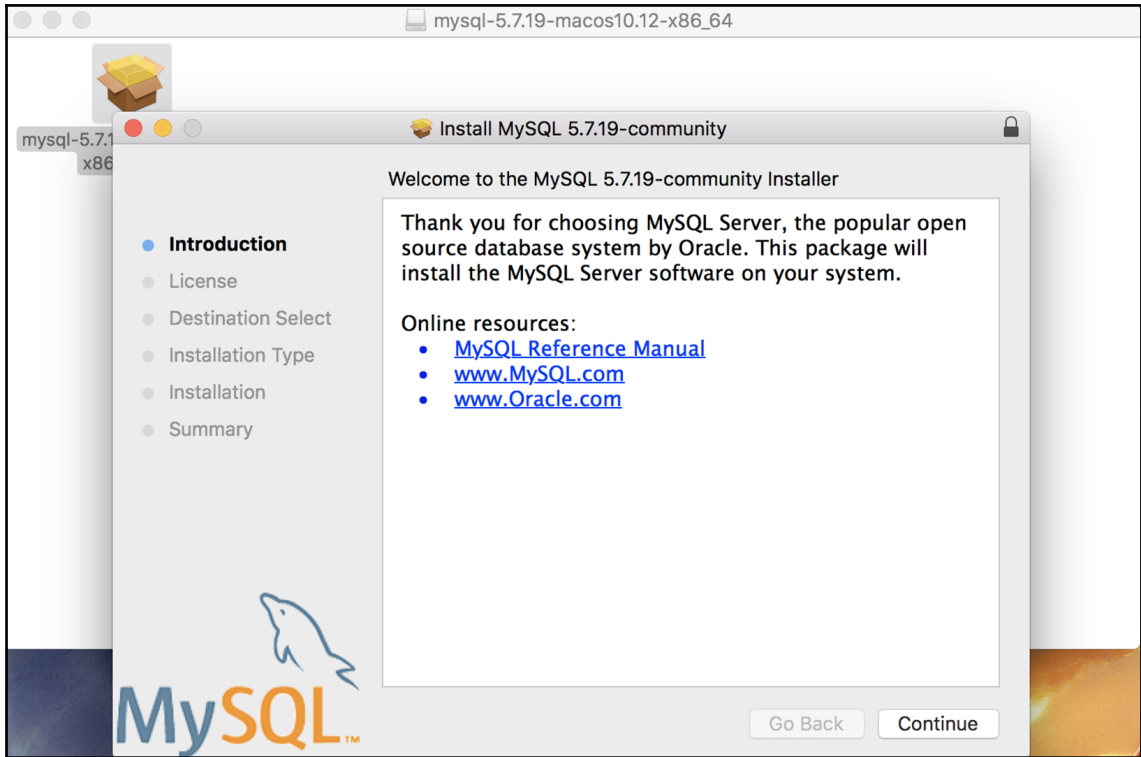
Select Operating System:
Mac OS X

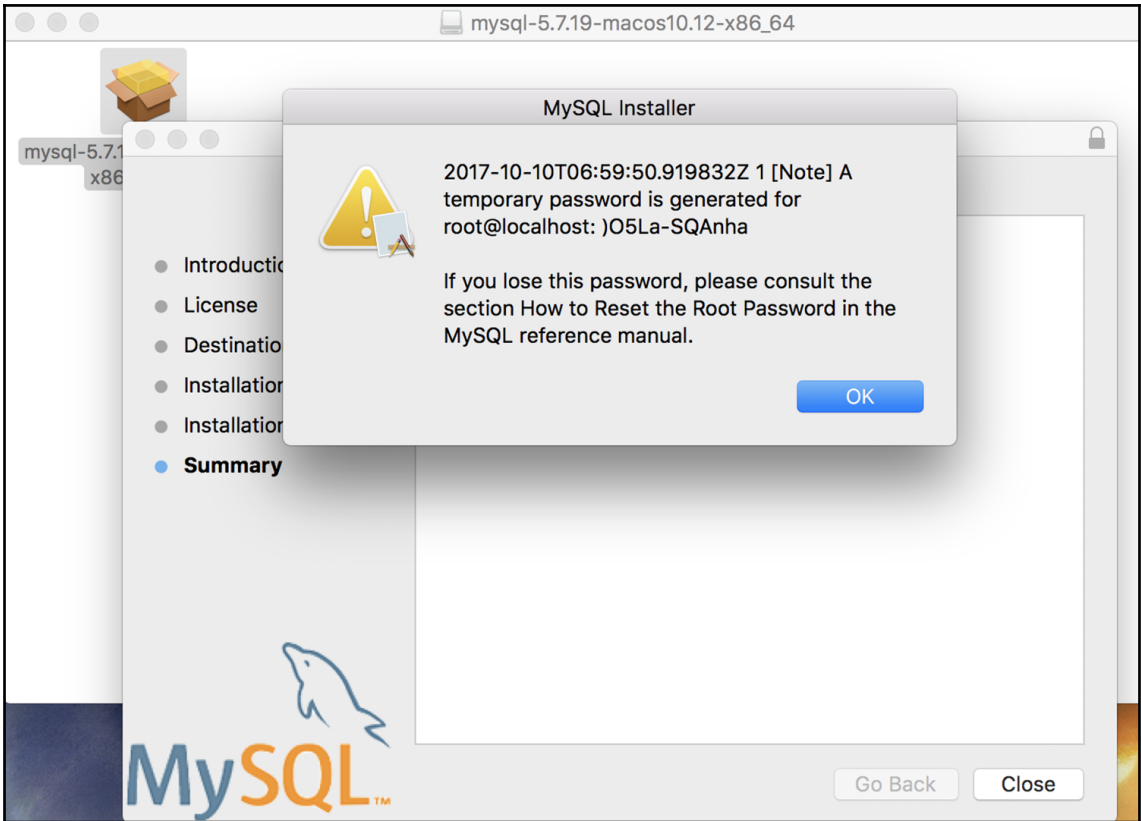
[Looking for previous GA versions?](#)

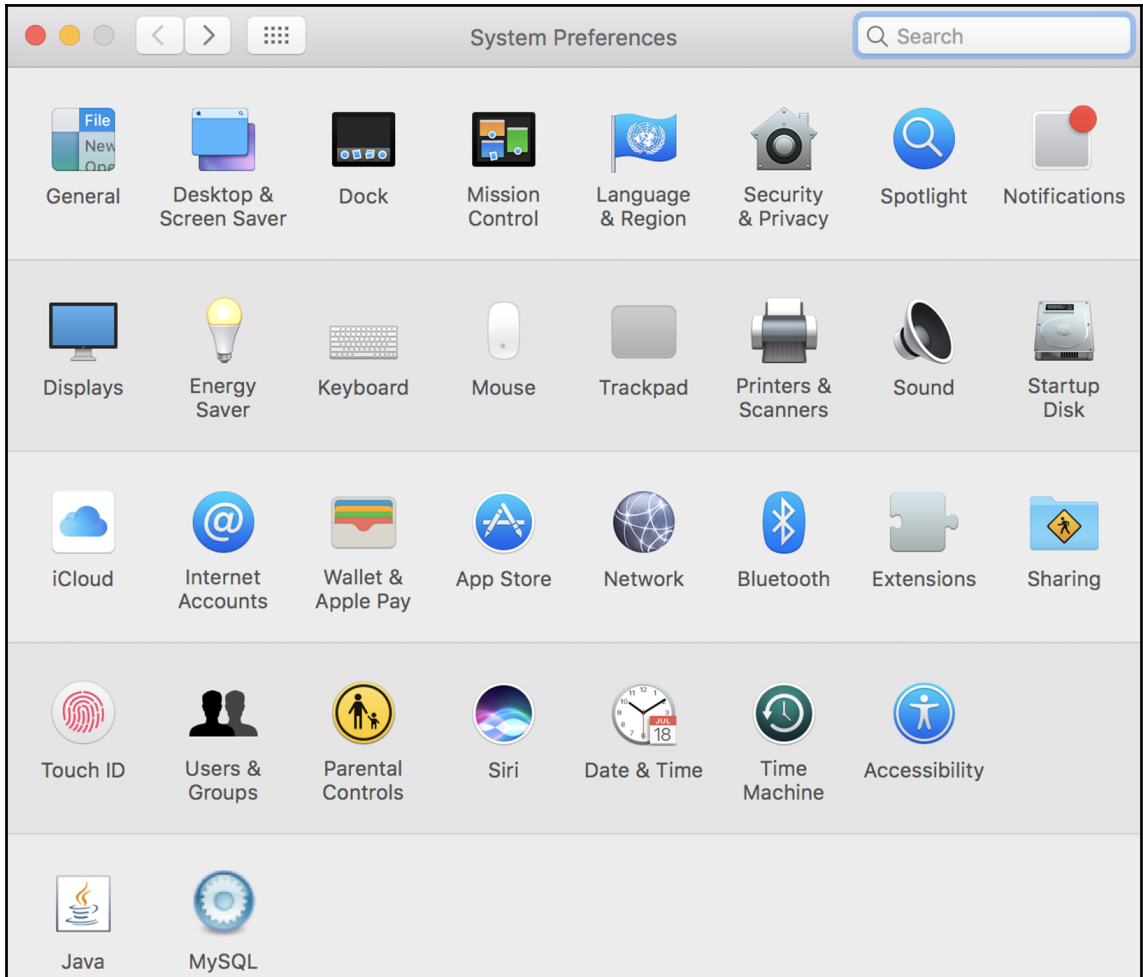
ⓘ Packages for Sierra (10.12) are compatible with El Capitan (10.11)

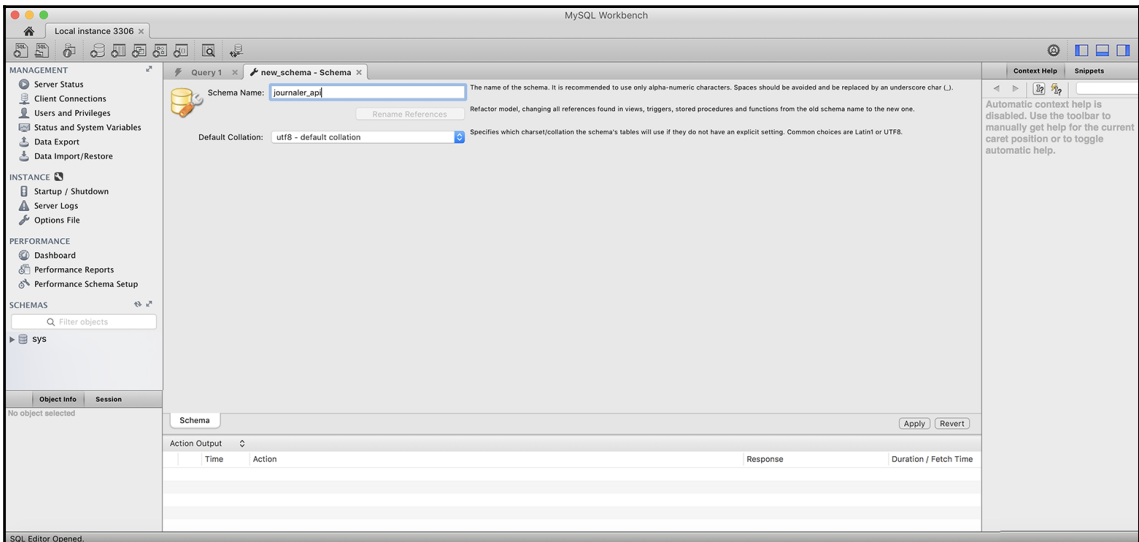
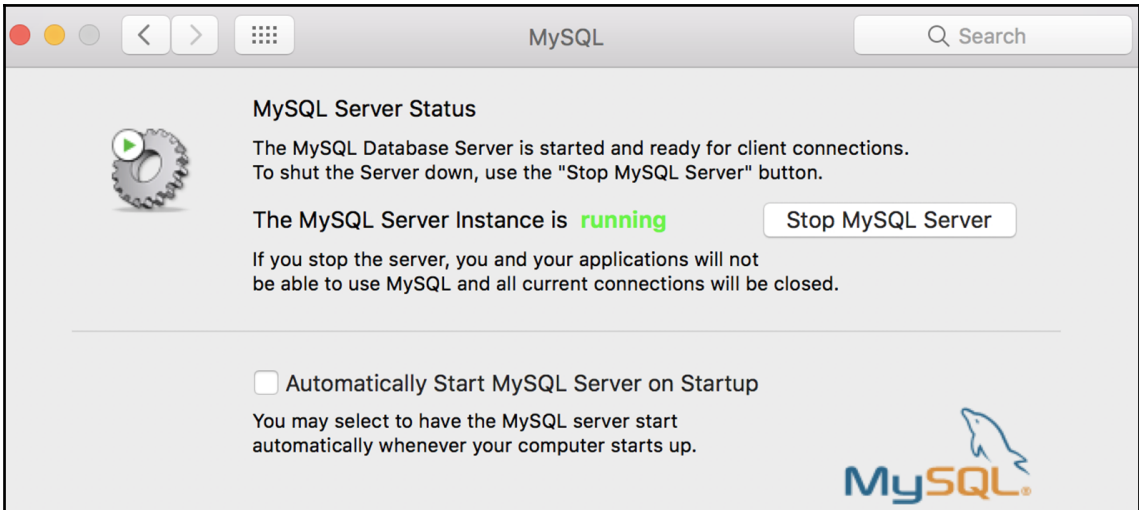
Mac OS X 10.12 (x86, 64-bit), DMG Archive <small>(mysql-5.7.19-macos10.12-x86_64.dmg)</small>	5.7.19	338.8M	Download
Mac OS X 10.12 (x86, 64-bit), Compressed TAR Archive <small>(mysql-5.7.19-macos10.12-x86_64.tar.gz)</small>	5.7.19	314.2M	Download
Mac OS X 10.12 (x86, 64-bit), Compressed TAR Archive Test Suite <small>(mysql-test-5.7.19-macos10.12-x86_64.tar.gz)</small>	5.7.19	24.3M	Download

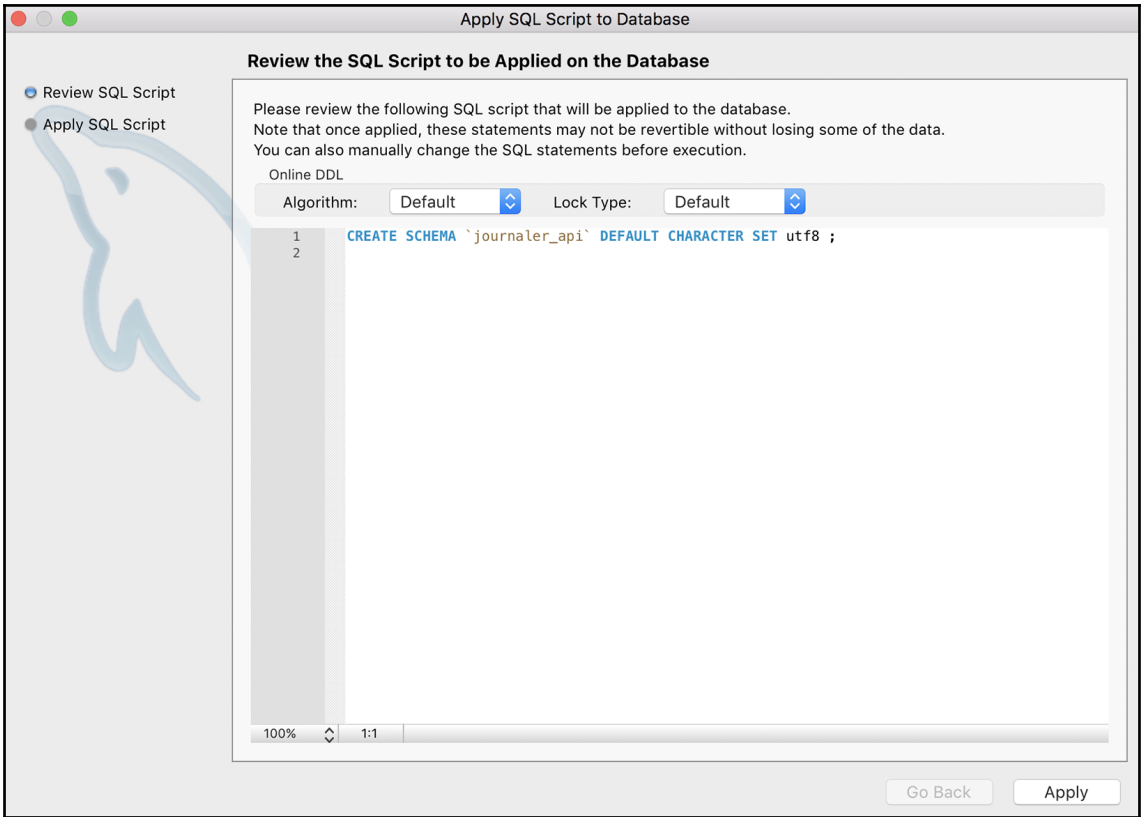
ⓘ We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

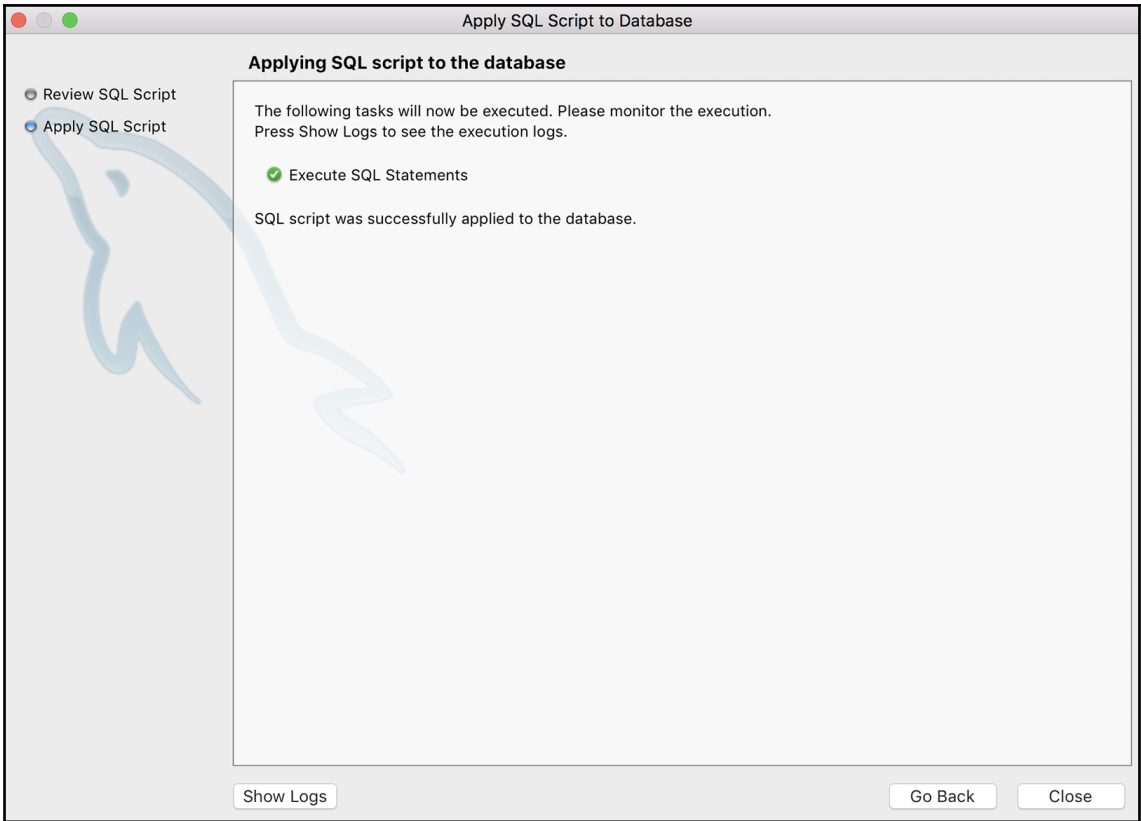


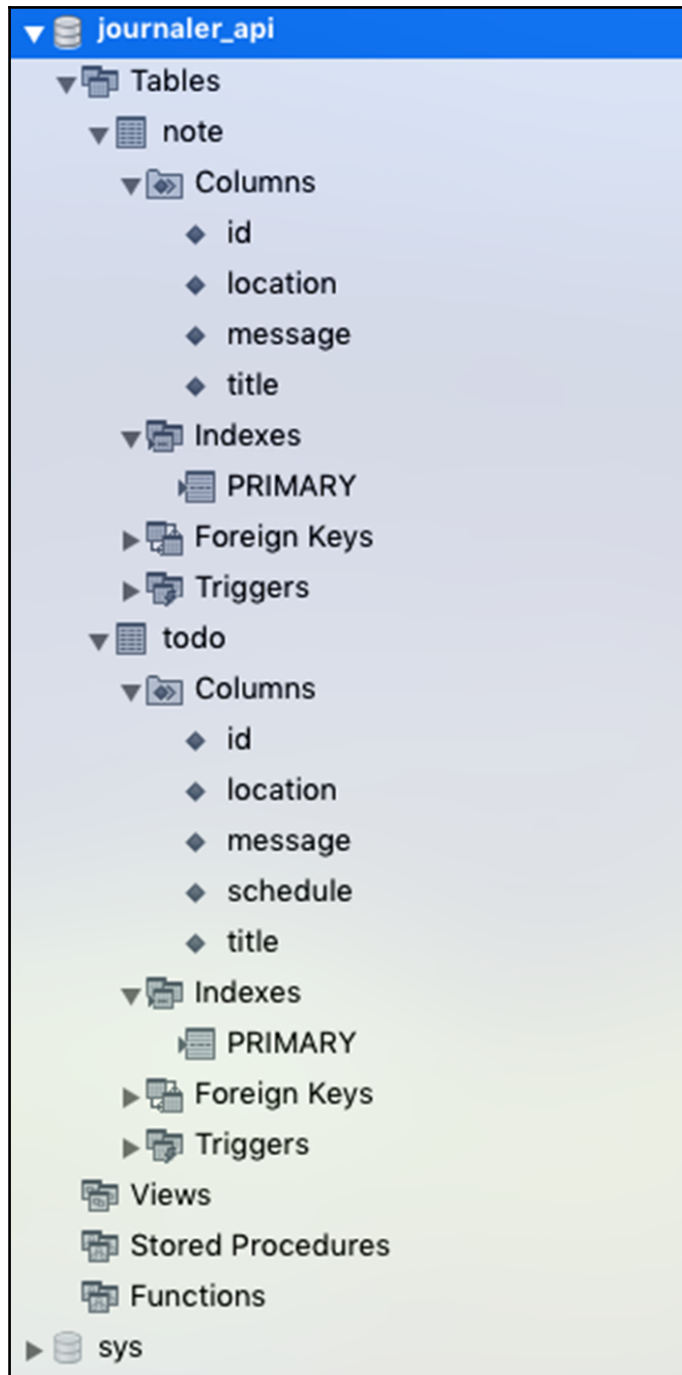


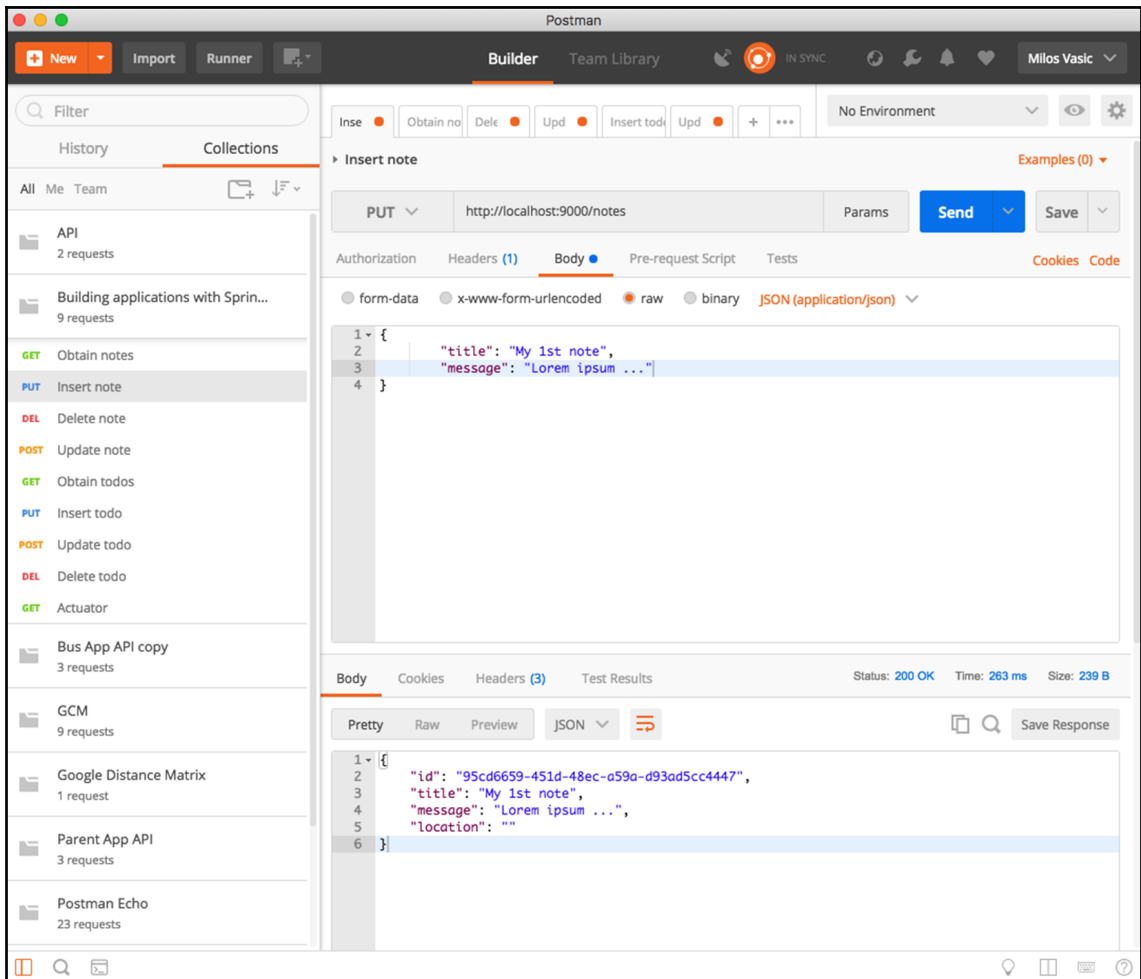


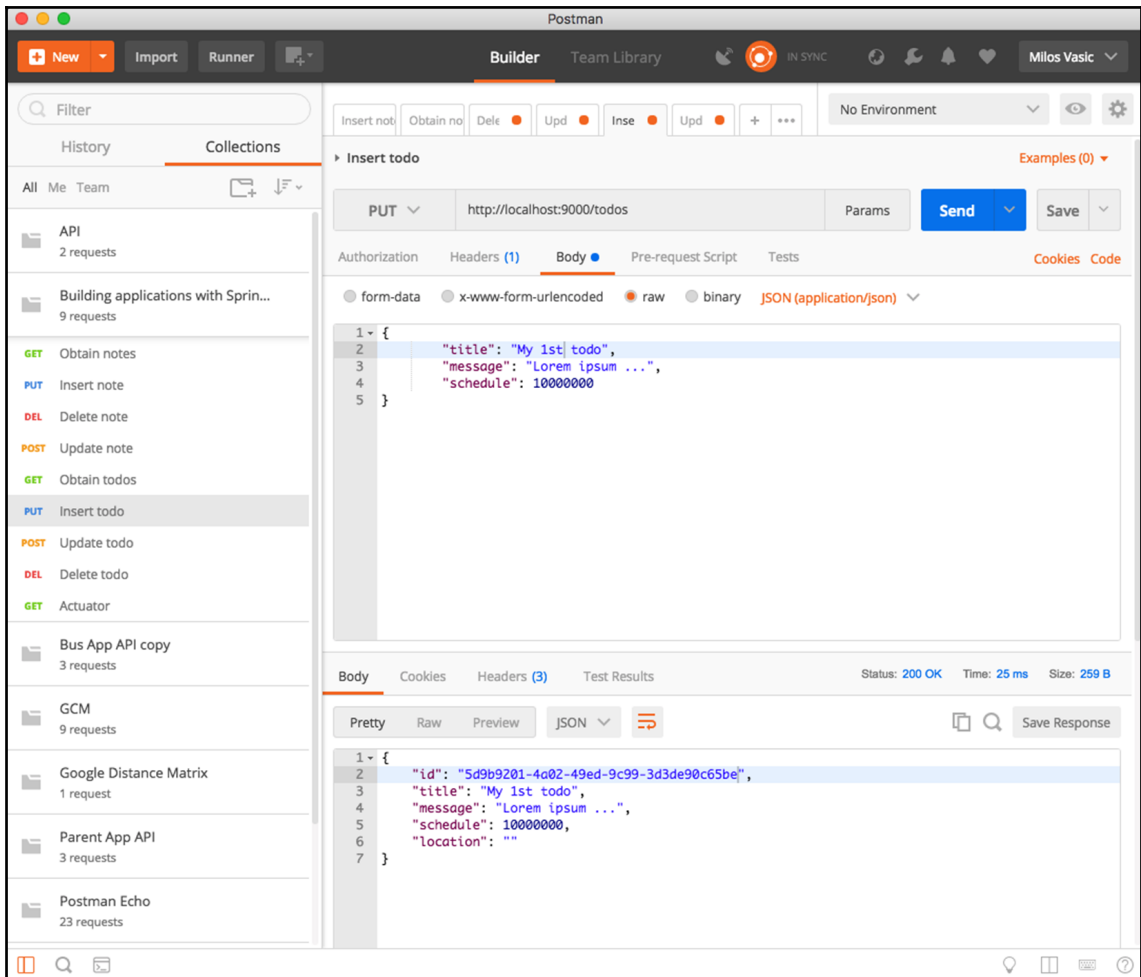


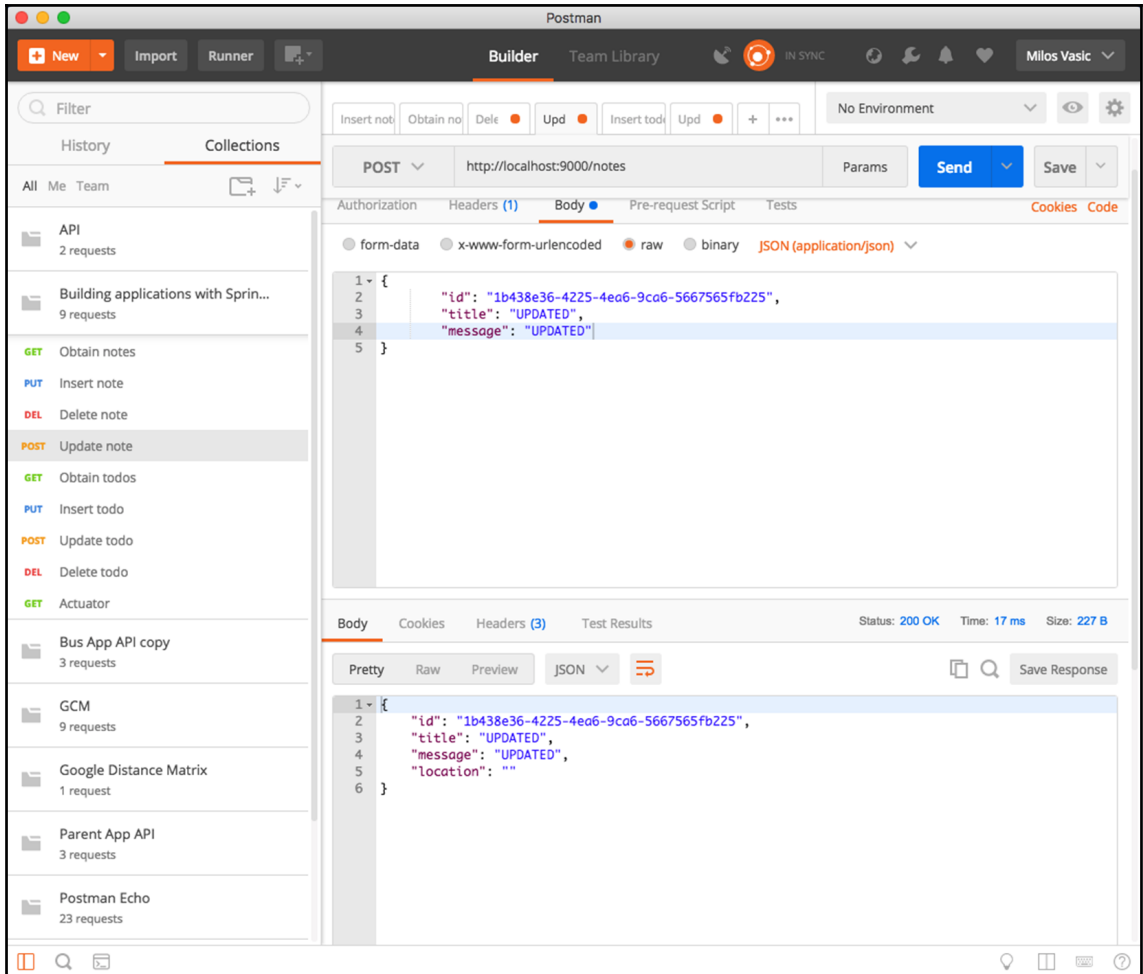


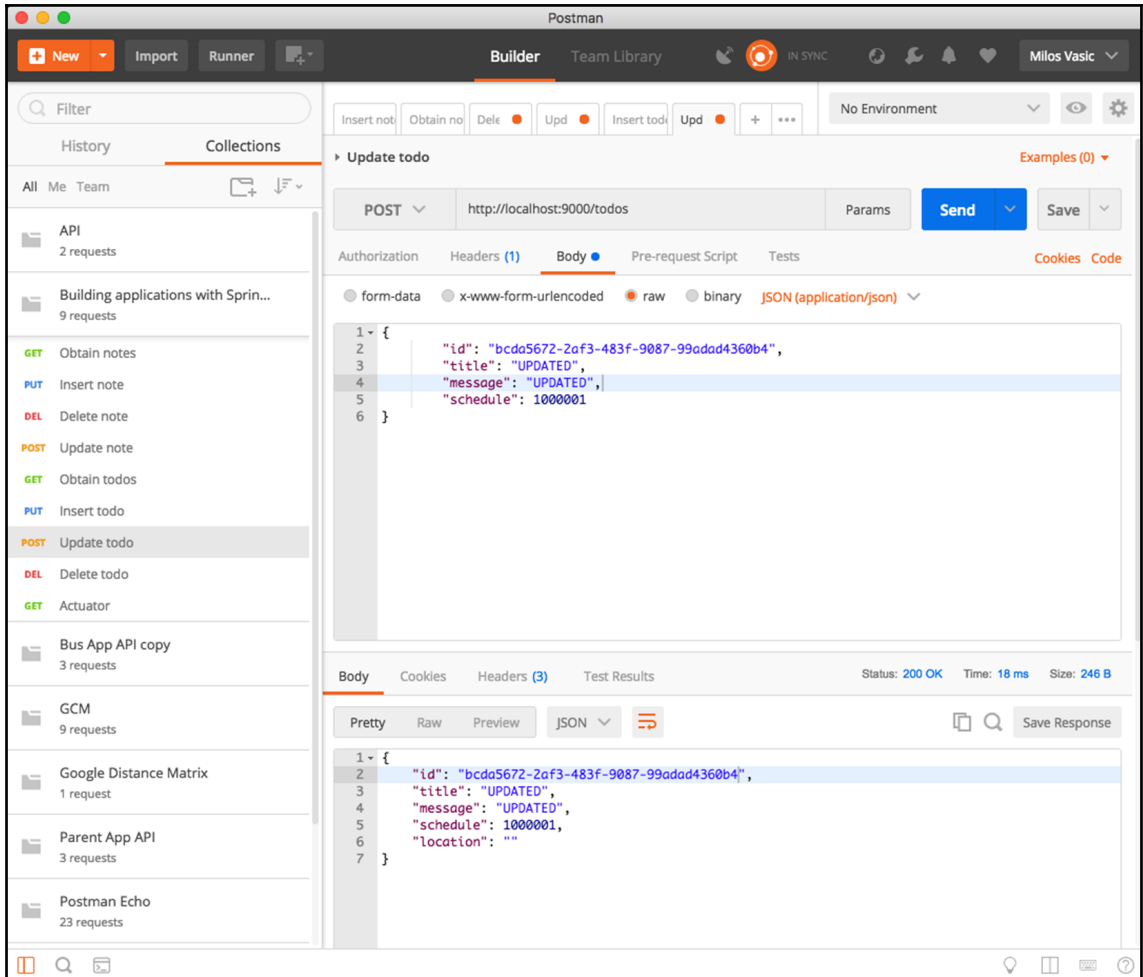


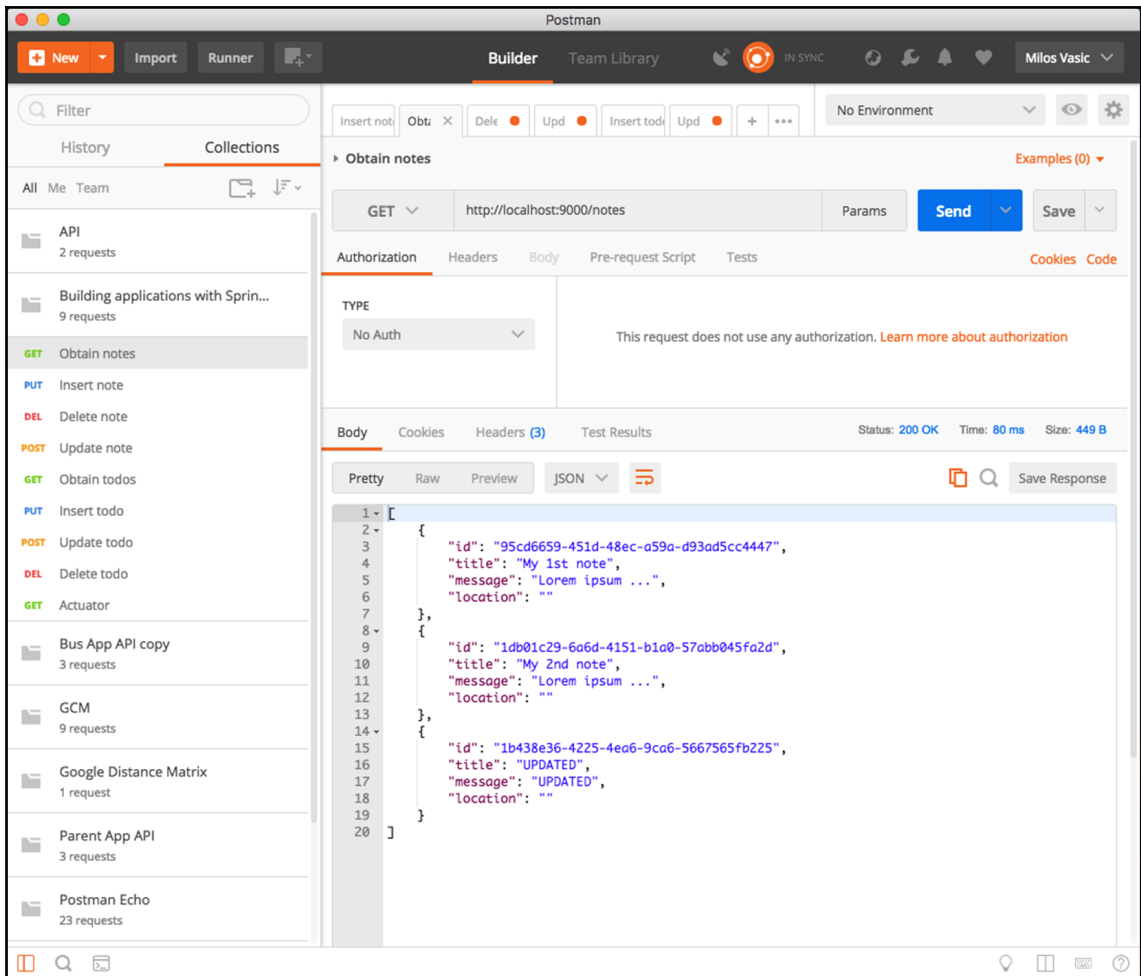


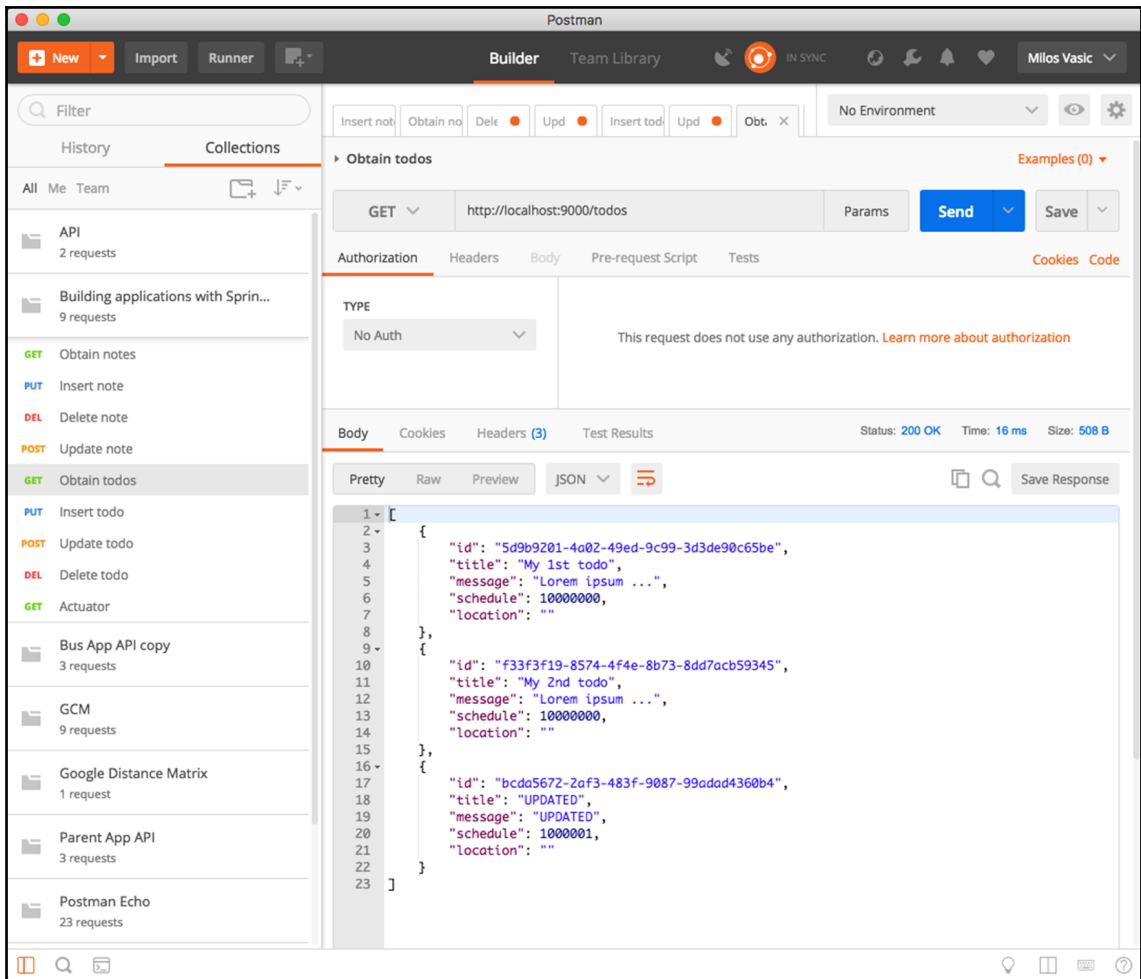


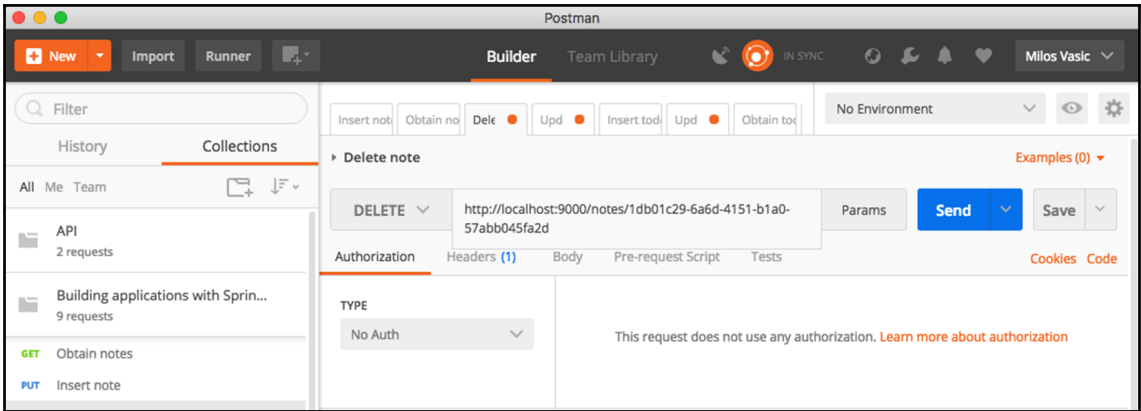


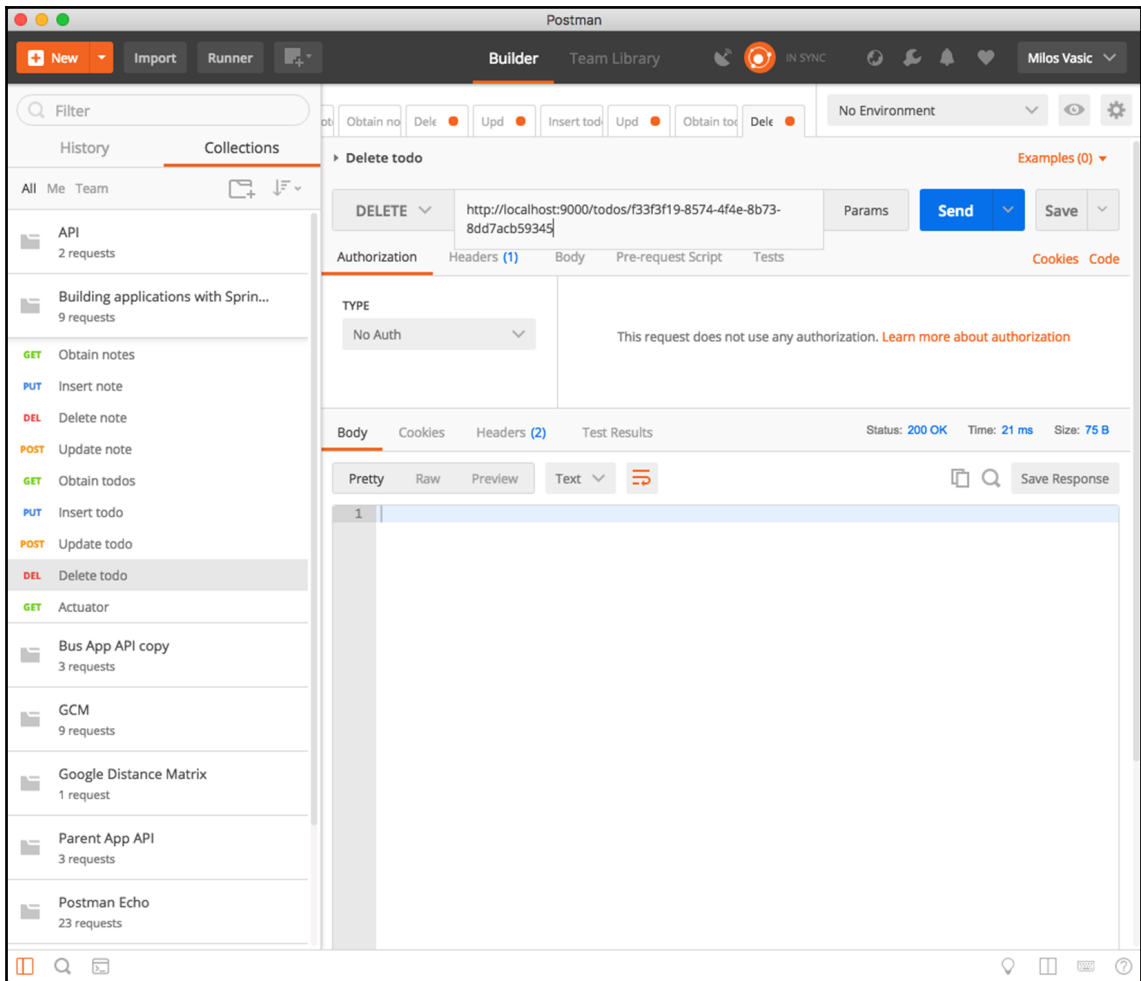


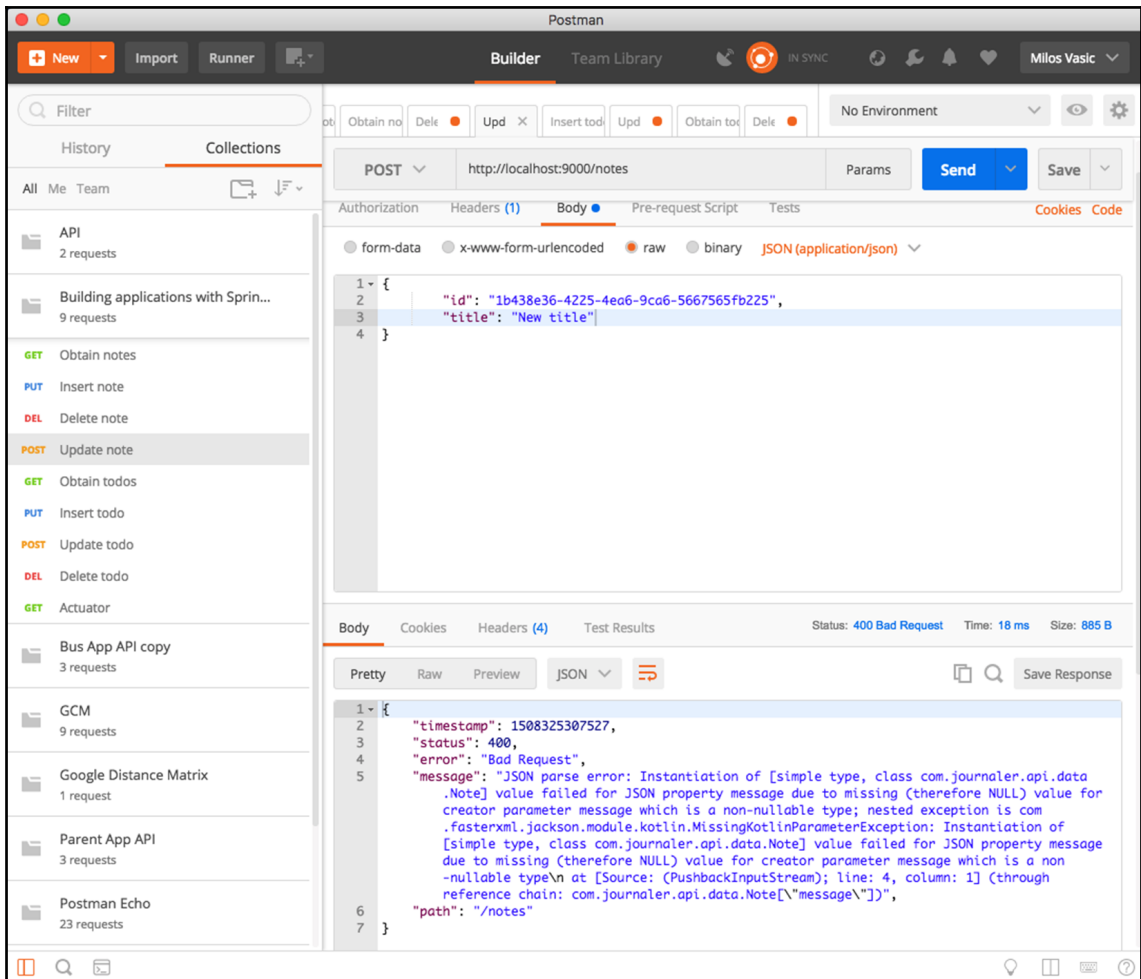












POST http://localhost:9000/todos/later_than

Authorization Headers (1) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "date": "1508592741900"
3 }
```

Body Cookies Headers (3) Test Results

Pretty Raw Preview JSON

```
1 [
2   {
3     "title": "My todo 2",
4     "message": "Lorem ipsum ...",
5     "schedule": 1508592741903,
6     "location": "",
7     "id": "e94a830a-59b3-4193-a24a-55650eea0514",
8     "created": 1508592760000,
9     "modified": 1508592760000
10  },
11  {
12    "title": "My todo 3",
13    "message": "Lorem ipsum ...",
14    "schedule": 1508592741903,
15    "location": "",
16    "id": "25d48a8f-89ab-4eb5-bf97-1508035524b4",
17    "created": 1508592765000,
18    "modified": 1508592765000
19  }
20 ]
```

POST http://localhost:9000/notes/by_title

Authorization Headers (1) **Body** Pre-request Script Tests

form-data x-www-form-urlencoded raw binary **JSON (application/json)**

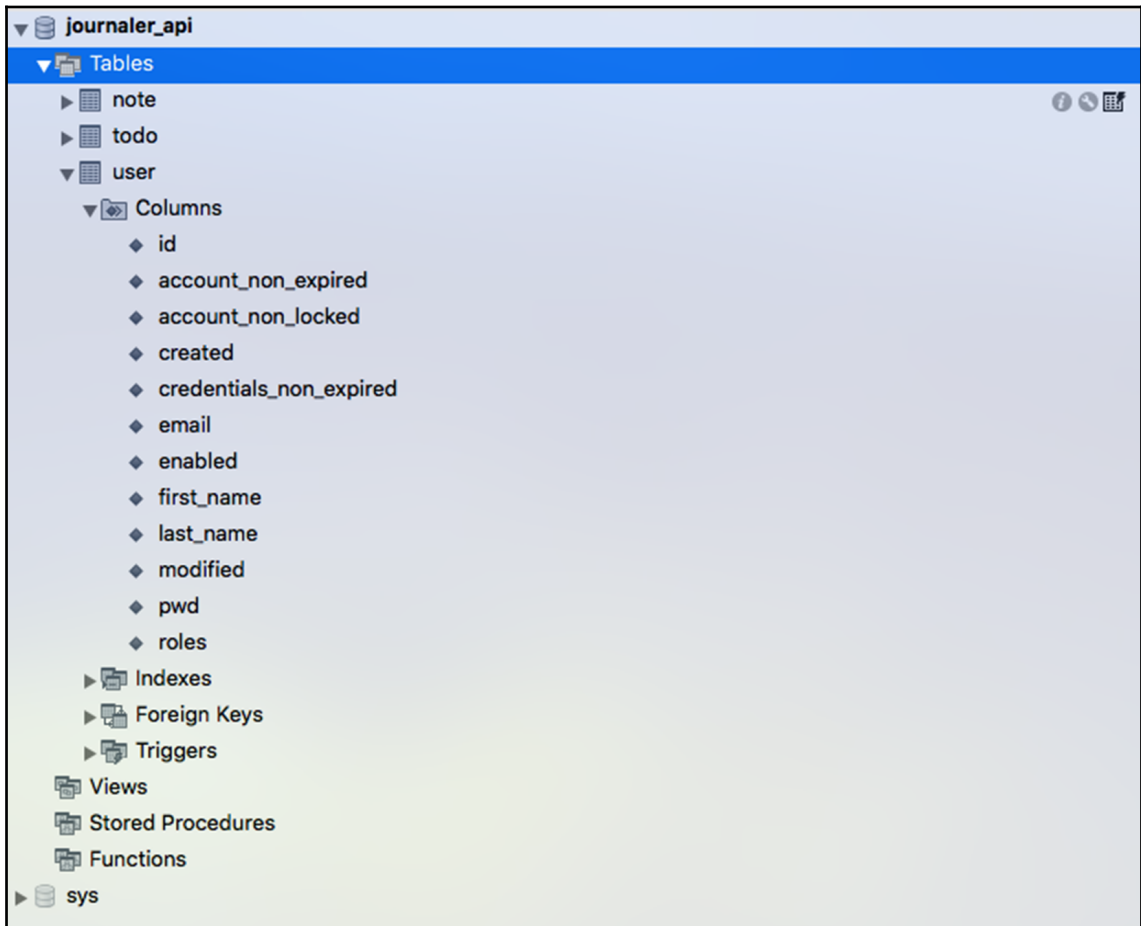
```
1 {
2   "title": "My 1st note"
3 }
```

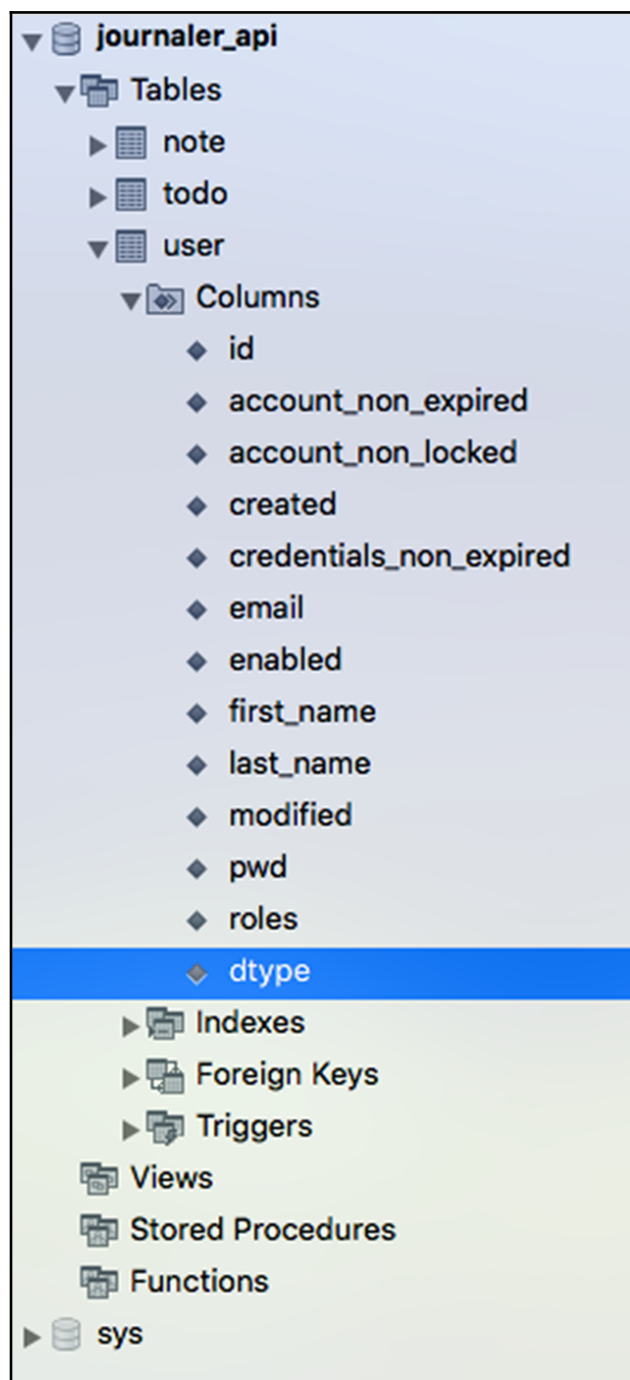
Body Cookies Headers (3) Test Results

Pretty Raw Preview **JSON**

```
1 [
2   {
3     "title": "My 1st note",
4     "message": "Lorem ipsum ...",
5     "location": "",
6     "id": "5385f1e6-830d-4899-b6dc-7e7d7d1c2a15",
7     "created": 1508595156000,
8     "modified": 1508595156000
9   }
10 ]
```

Chapter 5: Securing Applications with Spring Security






```

Run: SecurityInitializationTest x
Tests passed: 2 of 2 tests - 1 s 83 ms
SecurityInitializer 1 s 83 ms
  InitAdmin 1 s 64 ms
  InitMember 19 ms
produces={text/html}" onto public org.springframework.web.servlet.ModelAndView org.springframework.boot.autoconfigure.web.servlet.error.BasicExceptionHandler.handle(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse)
2018-05-11 12:33:43.094 INFO 4122 --- [main] s.w.s.m.a.RequestMappingHandlerMapping : Mapped "{/error}" onto public org.springframework.http.ResponseEntity<java.util.Map<java.lang.String, java.lang.Object>> org.springframework.boot.autoconfigure.web.servlet.error.BasicExceptionHandler.handle(javax.servlet.http.HttpServletRequest)
2018-05-11 12:33:43.334 INFO 4122 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2018-05-11 12:33:43.334 INFO 4122 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2018-05-11 12:33:43.092 INFO 4122 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2018-05-11 12:33:46.572 INFO 4122 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped [{"application/health"},methods={GET}],produces=[application/vnd.spring-boot.actuator.v2+json || application/json]} onto public java.lang.Object org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping$OperationHandler.handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-05-11 12:33:46.572 INFO 4122 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped [{"application/status"},methods={GET}],produces=[application/vnd.spring-boot.actuator.v2+json || application/json]} onto public java.lang.Object org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping$OperationHandler.handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-05-11 12:33:46.578 INFO 4122 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped [{"application/infos"},methods={GET}],produces=[application/vnd.spring-boot.actuator.v2+json || application/json]} onto public java.lang.Object org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping$OperationHandler.handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-05-11 12:33:46.585 INFO 4122 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped [{"application/metrics"},methods={GET}],produces=[application/vnd.spring-boot.actuator.v2+json || application/json]} onto public java.lang.Object org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping$OperationHandler.handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-05-11 12:33:46.586 INFO 4122 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped [{"application/metrics/{requiredMetricName}],methods={GET}],produces=[application/vnd.spring-boot.actuator.v2+json || application/json]} onto public java.lang.Object org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping$OperationHandler.handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-05-11 12:33:46.591 INFO 4122 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped [{"application/trace"},methods={GET}],produces=[application/vnd.spring-boot.actuator.v2+json || application/json]} onto public java.lang.Object org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping$OperationHandler.handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-05-11 12:33:46.592 INFO 4122 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped [{"application}],methods={GET}" onto private java.util.Map<java.lang.String, java.util.Map<java.lang.String, org.springframework.boot.actuate.endpoint.web.Link>> org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping.links(javax.servlet.http.HttpServletRequest)
2018-05-11 12:33:47.177 INFO 4122 --- [main] c.j.api.SecurityInitializationTest : Started
SecurityInitializationTest in 37.235 seconds (JVM running for 44.526)
Admin user exists: 15fe7566-e984-44a9-b620-870859e930a1
Member user exists: 65919684-da41-40e6-aa2a-979c7f6613e5
2018-05-11 12:33:48.354 INFO 4122 --- [ Thread-2] o.s.w.c.s.GenericWebApplicationContext : Closing org
.springframework.web.context.support.GenericWebApplicationContext@e2e487: startup date [Fri May 11 12:33:12 IST 2018];
root of context hierarchy
2018-05-11 12:33:48.373 INFO 4122 --- [ Thread-2] j.LocalContainerEntityManagerFactoryBean : Closing JPA
EntityManagerFactory for persistence unit 'default'
2018-05-11 12:33:48.374 INFO 4122 --- [ Thread-2] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown
initiated...
2018-05-11 12:33:48.411 INFO 4122 --- [ Thread-2] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown
completed.
Process finished with exit code 0

```

journaler_api@localhost x user [journaler_api@localhost]

2 rows | Tx: Auto | Tab-se...d (TSV) | DDL | View Query

<Filter criteria>

idtype	id	account_non_expired	account_non_locked	created	credentials_non_expired	email
1	ADMIN 15fe7566-e984-44a9-b620-870859e930a1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2018-05-07 16:23:55	<input checked="" type="checkbox"/>	admin@example.com
2	MEMBER 65919684-da41-40e6-aa2a-979c7f6613e5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2018-05-07 16:23:56	<input checked="" type="checkbox"/>	member@example.com

▶ Login ADMIN Examples (0) ▾

POST ▾ http://localhost:9000/login Params Send ▾ Save ▾

Authorization Headers (1) **Body** ● Pre-request Script Tests Cookies Code

form-data x-www-form-urlencoded raw binary

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> username	admin@example.com			
<input checked="" type="checkbox"/> password	12345			
New key	Value	Description		

Body Cookies (1) Headers (9) Test Results Status: 200 OK Time: 373 ms Size: 332 B

Chapter 6: Spring Cloud

```
[ main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat initialized with port(s): 9002 (http)
[ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
[ main] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/8.5.23
[ost-startStop-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
[ost-startStop-1] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1028 ms
```

```
Thread-24] e.s.EurekaServerInitializerConfiguration : Started Eureka Server
[ main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 9002 (http)
[ main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 9002
[ main] c.j.gateway.DiscoveryApplicationKt : Started DiscoveryApplicationKt in 6.34 seconds (JVM running for 7.012)
[192.168.100.188] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at: http://localhost:9001
[192.168.100.188] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=discovery, profiles=[default], label=null,
[a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
[a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
```

```
[ main] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at: http://192.168.100.188:9001/
[ main] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=gateway, profiles=[default], label=null,
[ main] b.c.PropertySourceBootstrapConfiguration : Located property source: CompositePropertySource [name='configService'
[ main] c.j.gateway.GatewayApplicationKt : No active profile set, falling back to default profiles: default
[ main] ationConfigEmbeddedWebApplicationContext : Refreshing org.springframework.boot.context.embedded.AnnotationConfig
[ main] o.s.b.f.s.DefaultListableBeanFactory : Overriding bean definition for bean 'counterFactory' with a different
[ main] o.s.cloud.context.scope.GenericScope : BeanFactory id=45009661-8d31-3b79-818f-99c11e40370e
[ main] f.a.AutowiredAnnotationBeanPostProcessor : JSR-330 'javax.inject.Inject' annotation found and supported for auto
[ main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.cloud.netflix.metrics.MetricsInterceptorConf
[ main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.cloud.autoconfigure.ConfigurationProperties
[ main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat initialized with port(s): 9003 (http)
[ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
[ main] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/8.5.23
[ost-startStop-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
[ost-startStop-1] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1518 ms
```

```
[ main] com.netflix.discovery.DiscoveryClient : Getting all instance registry info from the eureka server
[ main] com.netflix.discovery.DiscoveryClient : The response status is 200
[ main] com.netflix.discovery.DiscoveryClient : Starting heartbeat executor: renew interval is: 30
[ main] c.n.discovery.InstanceInfoReplicator : InstanceInfoReplicator onDemand update allowed rate per min is 4
[ main] com.netflix.discovery.DiscoveryClient : Discovery Client initialized at timestamp 1514903513512 with initial instances count:
[ main] o.s.c.n.e.s.EurekaServiceRegistry : Registering application gateway with eureka with status UP
[ main] com.netflix.discovery.DiscoveryClient : Saw local status change event StatusChangeEvent [timestamp=1514903513548, current=UP,
[infoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_GATEWAY/192.168.100.188:gateway:9003: registering service...
[infoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_GATEWAY/192.168.100.188:gateway:9003 - registration status: 204
[ main] o.s.c.support.DefaultLifecycleProcessor : Starting beans in phase 2147483647
[ main] trationDelegate$MetricsPollerConfiguration : Starting poller
[ main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 9003 (http)
[ main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 9003
[ main] c.j.gateway.GatewayApplicationKt : Started GatewayApplicationKt in 8.884 seconds (JVM running for 9.583)
[192.168.100.188] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at: http://192.168.100.188:9001/
[192.168.100.188] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=gateway, profiles=[default], label=null, version=082b318403
```

```
[ main] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at: http://192.168.0.14:9001/
[ main] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=journaler, profiles=[default],
[ main] b.c.PropertySourceBootstrapConfiguration : Located property source: CompositePropertySource [name='
[ main] com.journaler.api.ApiApplicationKt : No active profile set, falling back to default profiles:
[ main] ationConfigEmbeddedWebApplicationContext : Refreshing org.springframework.boot.context.embedded.Annotation
[ main] o.s.cloud.context.scope.GenericScope : BeanFactory id=0b693855-5db9-3065-8dc4-598527e3466c
[ main] f.a.AutowiredAnnotationBeanPostProcessor : JSR-330 'javax.inject.Inject' annotation found and support
[ main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.transaction.annotation.ProxyTrans
[ main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.cloud.netflix.metrics.MetricsInt
[ main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.cloud.autoconfigure.Configuration
[ main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat initialized with port(s): 9000 (http)
[ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
[ main] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/8.5.23
```

```

[main] o.s.c.n.e.s.EurekaServiceRegistry : Registering application journaler with eureka with status UP
[main] com.netflix.discovery.DiscoveryClient : Saw local status change event StatusChangeEvent [timestamp=1514989767517, curren
[infoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_JOURNALER/192.168.0.14:journaler:9000: registering service...
[infoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_JOURNALER/192.168.0.14:journaler:9000 - registration status: 204
[main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 9000 (http)
[main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 9000
[main] com.journaler.api.ApiApplicationKt : Started ApiApplicationKt in 9.909 seconds (JVM running for 10.352)

```

▶ Login ADMIN

POST http://localhost:9000/login

Authorization Headers (1) **Body** Pre-request Script Tests

form-data x-www-form-urlencoded raw binary

Key	Value
<input checked="" type="checkbox"/> username	admin@example.com
<input checked="" type="checkbox"/> password	12345
New key	Value

Body Cookies (1) Headers (9) Test Results

Pretty Raw Preview Text

Obtain notes

GET http://localhost:9000/notes

Authorization Headers Body Pre-request Script Tests

Type: inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is using an authorization helper from collection Building applications with Spring 5 and Kotlin.

Body Cookies (1) Headers (10) Test Results

Status: 200 OK Time: 73 ms Size: 1.12 KB

Pretty Raw Preview JSON Save Response

```

1: [
2:   {
3:     "id": "888eef75-2721-43d0-b6c4-258127b21c83",
4:     "created": 151112428000,
5:     "modified": 151112428000,
6:     "title": "My 3rd note",
7:     "message": "Lorem Ipsum ...",
8:     "location": ""
9:   },
10:  {
11:    "id": "124afcd7-84ca-425d-87db-e3d2a56f51c9",
12:    "created": 1508595168000,
13:    "modified": 1508595168000,
14:    "title": "My 2nd note",
15:    "message": "Lorem Ipsum ...",
16:    "location": ""
17:  },
18:  {
19:    "id": "5383f1e6-8366-4899-b66c-7e79791c2c15",
20:    "created": 1508595168000,
21:    "modified": 1508595168000,
22:    "title": "My 1st note",
23:    "message": "Lorem Ipsum ...",
24:    "location": ""
25:  },
26:  {
27:    "id": "2d839e73-446d-49c5-908b-4b0a04294d04",
28:    "created": 1508595168000,
29:    "modified": 1508595168000,
30:    "title": "My 2nd note",
31:    "message": "Lorem Ipsum ...",
32:    "location": ""
33:  },
34:  {
35:    "id": "d8180dbd-dc01-493b-84ed-b1ef0286c6d2",
36:    "created": 1514653847000,
37:    "modified": 1514653847000,
38:    "title": "My 3rd note",
39:    "message": "Lorem Ipsum ...",
40:    "location": ""
41:  }
42: ]

```

Log in ADMIN through Gateway server

POST http://localhost:9003/journaler/login

Authorization Headers (1) Body Pre-request Script Tests

TYPE: Inherit auth from parent

This request is using an authorization helper from collection Building applications with Spring 5 and Kotlin

Body Cookies (1) Headers (9) Test Results

Status: 200 OK Time: 471 ms Size: 303 B

Pretty Raw Preview Text

Save Response

Obtain notes through Gateway server

GET http://localhost:9003/journaler/notes

Authorization Headers Body Pre-request Script Tests

TYPE: Inherit auth from parent

This request is using an authorization helper from collection Building applications with Spring 5 and Kotlin

Body Cookies (1) Headers (10) Test Results

Status: 401 Unauthorized Time: 15 ms Size: 464 B

Pretty Raw Preview JSON

```
1- {
2-   "timestamp": 1514992458713,
3-   "status": 401,
4-   "error": "Unauthorized",
5-   "message": "Access Denied",
6-   "path": "/notes"
7- }
```

Save Response

Insert note through Gateway server Examples (0) ▾

PUT Params

Authorization Headers (1) **Body** Pre-request Script Tests Cookies Code

form-data x-www-form-urlencoded raw binary JSON (application/json) ▾

```

1 {
2   "title": "My 3rd note",
3   "message": "Lorem ipsum ..."
4 }

```

Body Cookies (2) Headers (10) Test Results Status: 200 OK Time: 24 ms Size: 507 B

Obtain notes through Gateway server Examples (0) ▾

GET Params

Authorization Headers Body Pre-request Script Tests Cookies Code

Type This request is using an authorization helper from collection Building applications with Spring 5 and Kotlin.

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Body Cookies (2) Headers (10) Test Results Status: 200 OK Time: 38 ms Size: 1.43 KB

Pretty Raw Preview **JSON**

```

1 {
2   "list": [
3     {
4       "id": "30799043-7723-470a-9a2c-5f6ba3f1079e",
5       "created": 1515079670000,
6       "modified": 1515079672000,
7       "title": "My 3rd note",
8       "message": "Lorem ipsum ...",
9       "location": ""
10    },
11    {
12      "id": "60955268-2135-44e4-86c3-d6878e658081",
13      "created": 1515079670000,
14      "modified": 1515079670000,
15      "title": "My 3rd note",
16      "message": "Lorem ipsum ...",
17      "location": ""
18    },
19    {
20      "id": "756a7829-cd71-45d6-ae72-131e0ef773d2",
21      "created": 1515108802000,
22      "modified": 1515108803000,
23      "title": "My 3rd note",
24      "message": "Lorem ipsum ...",
25      "location": ""
26    },
27    {
28      "id": "8490156c-cd8f-47ef-8b8b-eb0d7f95bc86",
29      "created": 1515108770000,
30      "modified": 1515108770000,
31      "title": "My 3rd note",
32      "message": "Lorem ipsum ...",
33      "location": ""
34    },
35    {
36      "id": "d67804de-d9f8-4cfe-8256-b15d45d20c8c",
37      "created": 1515108770000,
38      "modified": 1515108770000,
39      "title": "My 3rd note",
40      "message": "Lorem ipsum ...",
41      "location": ""
42    },
43    {
44      "id": "8011811b-eb0a-48d2-e479-efec2155136e",
45      "created": 1515079673000,
46      "modified": 1515079673000,
47      "title": "My 3rd note",
48      "message": "Lorem ipsum ...",
49      "location": ""
50    },
51    {
52      "id": "ff6e0772-1818-45c5-8068-c6872e1c004c",

```

Obtain notes through Gateway server Examples (0) ▾



POST ▾ http://localhost:9003/journaler/notes/by_title Params Send ▾ Save ▾

Authorization Headers (1) **Body** ● Pre-request Script Tests Cookies (0) Code

form-data x-www-form-urlencoded raw binary JSON (application/json) ▾

```
1 {  
2   "title": "My 1st note"  
3 }
```

Body Cookies (2) Headers (10) Test Results Status: 200 OK Time: 21 ms Size: 351 B

Pretty Raw Preview JSON ▾   Save Response

```
1 []
```


Obtain notes through Gateway server

POST http://localhost:9003/journal/notes/by_title

Authorization Headers (1) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON(application/json)

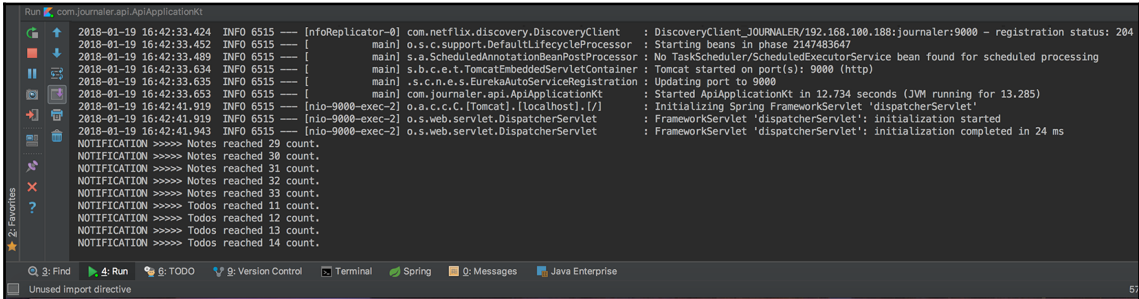
```
1- [
2-   "title": "My 3rd note"
3- ]
```

Body Cookies (2) Headers (10) Test Results Status: 200 OK Time: 20 ms Size: 1.43 KB

Pretty Raw Preview [JSON]

```
1- [
2-   {
3-     "id": "38799643-7723-47ca-9e2c-5f6bc3f1879e",
4-     "created": 151507872000,
5-     "modified": 151507872000,
6-     "title": "My 3rd note",
7-     "message": "Lorem Ipsum ...",
8-     "location": ""
9-   },
10-  {
11-    "id": "60955268-2135-41e4-bb03-d68786e60888",
12-    "created": 151507872000,
13-    "modified": 151507872000,
14-    "title": "My 3rd note",
15-    "message": "Lorem Ipsum ...",
16-    "location": ""
17-  },
18-  {
19-    "id": "75647829-ca71-45d6-ca72-131a84e7713d",
20-    "created": 1515159873000,
21-    "modified": 1515159873000,
22-    "title": "My 3rd note",
23-    "message": "Lorem Ipsum ...",
24-    "location": ""
25-  },
26-  {
27-    "id": "9882c5c-6d8f-41ef-8800-e6bd2f09c6c6",
28-    "created": 1515159873000,
29-    "modified": 1515159873000,
30-    "title": "My 3rd note",
31-    "message": "Lorem Ipsum ...",
32-    "location": ""
33-  },
34-  {
35-    "id": "d6f8a5de-04f8-4c7e-825e-015d545202c8",
36-    "created": 1515159873000,
37-    "modified": 1515159873000,
38-    "title": "My 3rd note",
39-    "message": "Lorem Ipsum ...",
40-    "location": ""
41-  }
42- ]
```

Chapter 7: Using Project Reactor



The screenshot shows an IDE window titled "Run" for a project named "com.journaler.api.ApiApplicationKt". The main area displays a log stream with the following content:

```
2018-01-19 16:42:33.424 INFO 6515 --- [InfoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_JOURNALER/192.168.100.188:journaler:9000 - registration status: 204
2018-01-19 16:42:33.452 INFO 6515 --- [main] o.s.c.support.DefaultLifecycleProcessor : Starting beans in phase 2147483647
2018-01-19 16:42:33.489 INFO 6515 --- [main] s.a.ScheduledAnnotationBeanPostProcessor : No TaskScheduler/ScheduledExecutorService bean found for scheduled processing
2018-01-19 16:42:33.634 INFO 6515 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 9000 (http)
2018-01-19 16:42:33.635 INFO 6515 --- [main] s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 9000
2018-01-19 16:42:33.653 INFO 6515 --- [main] com.journaler.api.ApiApplicationKt : Started ApiApplicationKt in 12.734 seconds (JVM running for 13.285)
2018-01-19 16:42:41.919 INFO 6515 --- [nio-9000-exec-2] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring FrameworkServlet 'dispatcherServlet'
2018-01-19 16:42:41.919 INFO 6515 --- [nio-9000-exec-2] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started
2018-01-19 16:42:41.943 INFO 6515 --- [nio-9000-exec-2] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization completed in 24 ms
NOTIFICATION >>>> Notes reached 29 count.
NOTIFICATION >>>> Notes reached 30 count.
NOTIFICATION >>>> Notes reached 31 count.
NOTIFICATION >>>> Notes reached 32 count.
NOTIFICATION >>>> Notes reached 33 count.
NOTIFICATION >>>> Todos reached 11 count.
NOTIFICATION >>>> Todos reached 12 count.
NOTIFICATION >>>> Todos reached 13 count.
NOTIFICATION >>>> Todos reached 14 count.
```

The IDE interface includes a left sidebar with icons for Explorer, Run and Debug, Source, Run and Debug Console, and Help. At the bottom, there is a toolbar with buttons for Find, Run, TODO, Version Control, Terminal, Spring, Messages, and Java Enterprise. The status bar at the bottom left shows "Unused import directive" and the page number "57" is visible at the bottom right.

Chapter 8: Development Practices

No images.

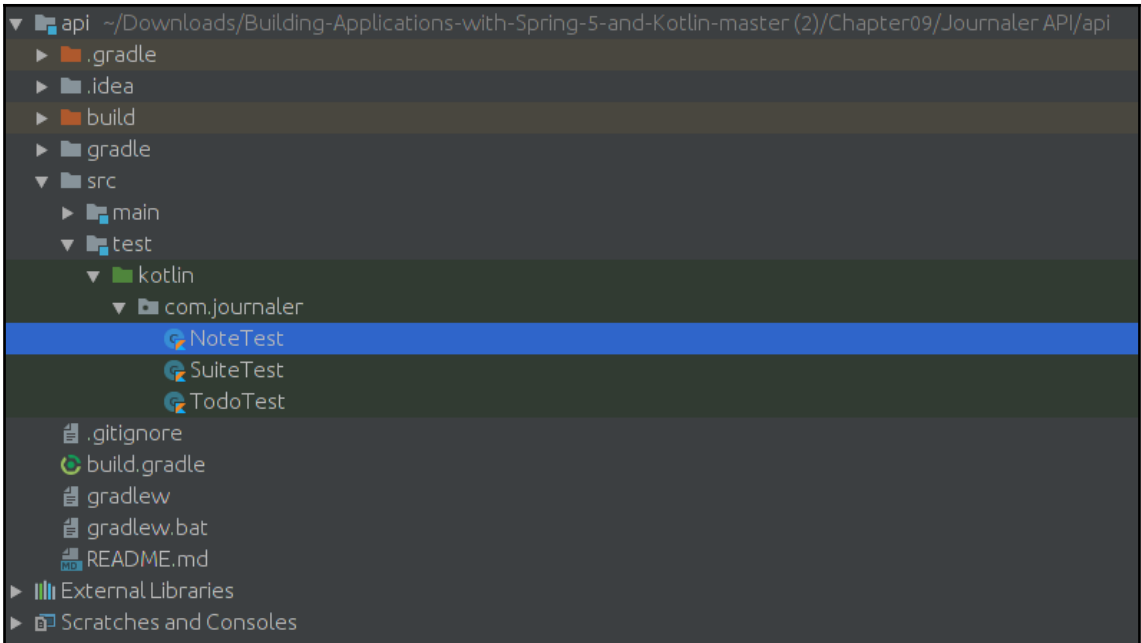
Chapter 9: Testing

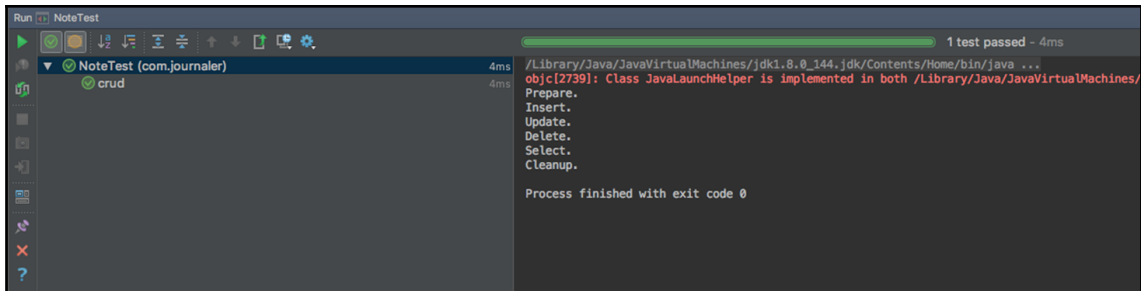
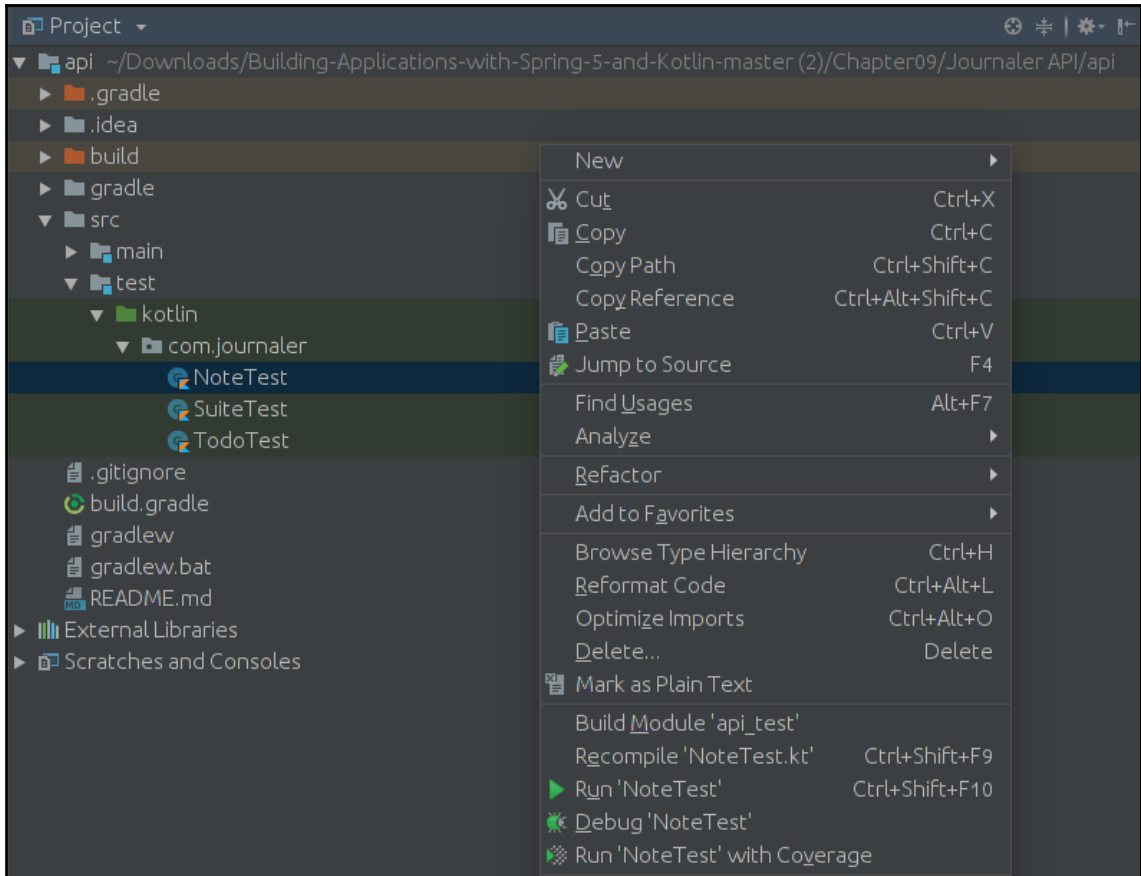
```

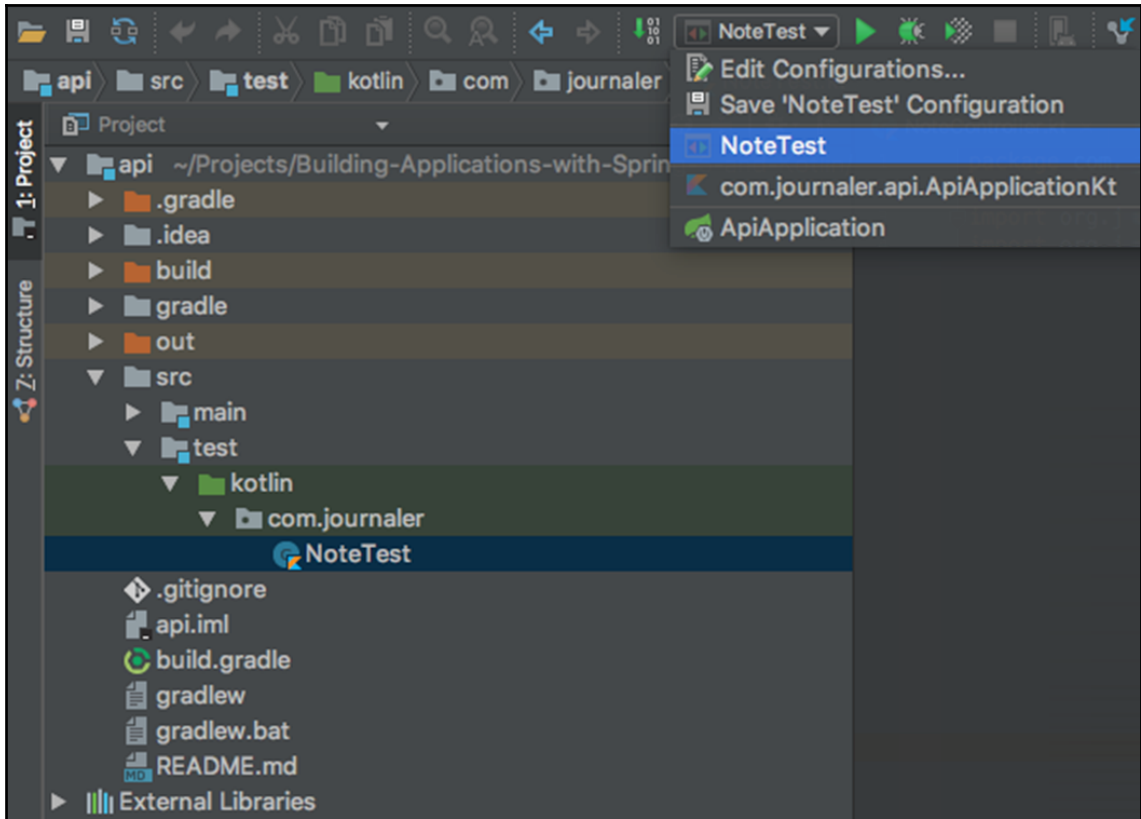
dependencies {
    compile 'org.springframework.boot:spring-boot-starter-security'
    compile 'org.springframework.session:spring-session'
    compile 'org.springframework.boot:spring-boot-starter-data-redis'
    compile 'org.springframework:spring-context'
    compile 'org.springframework:spring-aop'
    compile 'org.springframework.boot:spring-boot-starter'
    compile 'org.springframework.boot:spring-boot-starter-web'
    compile 'org.springframework.boot:spring-boot-starter-actuator'
    compile 'org.springframework.cloud:spring-cloud-starter-config'
    compile 'org.springframework.cloud:spring-cloud-starter-eureka'
    compile 'org.springframework:spring-web'
    compile 'org.springframework:spring-webmvc'
    compile 'io.projectreactor:reactor-bus:4.8.RELEASE'
    compile 'org.springframework.boot:spring-boot-starter-mail'
    runtime 'mysql:mysql-connector-java'
    compile 'org.springframework.boot:spring-boot-starter-data-jpa'
    compile "org.jetbrains.kotlin:kotlin-stdlib-jdk8:${kotlinVersion}"
    compile "org.jetbrains.kotlin:kotlin-reflect:${kotlinVersion}"
    testCompile 'org.springframework.boot:spring-boot-starter-test'
}

dependencyManagement {
    imports {
        mavenBom "org.springframework.cloud:spring-cloud-netflix:1.4.1.BUILD-SNAPSHOT"
    }
}

```







```

NoteTest (com.journaler) 713 ms
crud 713 ms
15:22:46.853 [main] DEBUG org.springframework.test.context.cache - Spring test ApplicationContext cache statistics:
15:22:46.882 [main] DEBUG org.springframework.test.context.support.AbstractDirtyContextTestExecutionListener -
15:22:46.933 [main] DEBUG org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate - Retrieved
15:22:46.933 [main] DEBUG org.springframework.test.context.cache - Spring test ApplicationContext cache statistics:
15:22:47.558 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached in
Prepare.
Insert.
Update.
Delete.
Select.
Cleanup.
15:22:47.574 [main] DEBUG org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate - Retrieved
15:22:47.575 [main] DEBUG org.springframework.test.context.cache - Spring test ApplicationContext cache statistics:
15:22:47.584 [main] DEBUG org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate - Retrieved
15:22:47.584 [main] DEBUG org.springframework.test.context.cache - Spring test ApplicationContext cache statistics:
15:22:47.584 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached in
15:22:47.584 [main] DEBUG org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate - Retrieved
15:22:47.584 [main] DEBUG org.springframework.test.context.cache - Spring test ApplicationContext cache statistics:
15:22:47.594 [main] DEBUG org.springframework.test.context.support.AbstractDirtyContextTestExecutionListener -
15:22:47.595 [main] DEBUG org.springframework.test.context.support.AbstractDirtyContextTestExecutionListener -
15:22:47.603 [Thread-0] INFO org.springframework.context.support.GenericApplicationContext - Closing org.springframe
15:22:47.603 [Thread-0] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cache
15:22:47.605 [Thread-0] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Destroying sing
Process finished with exit code 0

```

```

Run: NoteTest x
Tests passed: 1 of 1 test - 3 s 36 ms
NoteTest (com.journaler) 3 s 36 ms
crud 3 s 36 ms
2018-05-15 16:25:16.910 INFO 5177 --- [main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework
2018-05-15 16:25:18.743 INFO 5177 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Starting...
2018-05-15 16:25:20.339 INFO 5177 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Start completed
2018-05-15 16:25:20.741 INFO 5177 --- [main] j.LocalContainerEntityManagerFactoryBean : Building JPA container E
2018-05-15 16:25:20.971 INFO 5177 --- [main] o.hibernate.jpamodelgen.HibernateJPAModelGenerator : HH000204: Processing Pe
    name: default
    ...
2018-05-15 16:25:21.331 INFO 5177 --- [main] org.hibernate.Version : HH0000412: Hibernate Cor
2018-05-15 16:25:21.337 INFO 5177 --- [main] org.hibernate.cfg.Environment : HH0000206: hibernate.pro
2018-05-15 16:25:21.590 INFO 5177 --- [main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate C
2018-05-15 16:25:22.244 INFO 5177 --- [main] org.hibernate.dialect.Dialect : HH0000400: Using dialect
2018-05-15 16:25:24.461 INFO 5177 --- [main] o.h.h.a.QueryTranslatorFactoryInitiator : HH0000397: Using ASTQuer
2018-05-15 16:25:24.866 INFO 5177 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityMa
2018-05-15 16:25:32.647 INFO 5177 --- [main] b.a.s.AuthenticationManagerConfiguration :

Using default security password: b45c7cef-a00b-4978-970e-c3e1161eb70c

2018-05-15 16:25:33.447 INFO 5177 --- [main] o.s.s.web.DefaultSecurityFilterChain : Creating filter chain: o
2018-05-15 16:25:38.940 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerAdapter : Looking for @ControllerA
2018-05-15 16:25:39.554 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{notes/by titl
2018-05-15 16:25:39.557 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{notes}/method
2018-05-15 16:25:39.563 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{notes/{id},m
2018-05-15 16:25:39.569 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{notes}/method
2018-05-15 16:25:39.569 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{notes}/method
2018-05-15 16:25:39.577 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{todos/later_t
2018-05-15 16:25:39.578 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{todos}/method
2018-05-15 16:25:39.585 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{todos}/method
2018-05-15 16:25:39.585 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{todos/{id},m
2018-05-15 16:25:39.586 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{todos}/method
2018-05-15 16:25:39.592 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{error}.produc
2018-05-15 16:25:39.595 INFO 5177 --- [main] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped "://{error}" onto
2018-05-15 16:25:39.696 INFO 5177 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjar
2018-05-15 16:25:39.696 INFO 5177 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] on
2018-05-15 16:25:39.991 INFO 5177 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/fav
2018-05-15 16:25:43.783 INFO 5177 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{application/h
2018-05-15 16:25:43.784 INFO 5177 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{application/s
2018-05-15 16:25:43.784 INFO 5177 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{application/i
2018-05-15 16:25:43.784 INFO 5177 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{application/m
2018-05-15 16:25:43.787 INFO 5177 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{application/m
2018-05-15 16:25:43.789 INFO 5177 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{application/t
2018-05-15 16:25:43.792 INFO 5177 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{application}
2018-05-15 16:25:44.582 INFO 5177 --- [main] com.journaler.NoteTest : Started NoteTest in 43.1
Prepare.
Insert.
Update.
Delete.
Delete.
Cleanup.
2018-05-15 16:25:48.306 INFO 5177 --- [Thread-2] o.s.w.c.s.GenericWebApplicationContext : Closing org.springframe
2018-05-15 16:25:48.363 INFO 5177 --- [Thread-2] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManag
2018-05-15 16:25:48.363 INFO 5177 --- [Thread-2] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown initia
2018-05-15 16:25:48.774 INFO 5177 --- [Thread-2] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown comple

Process finished with exit code 0

```

```

Run: NoteTest x
Tests passed: 1 of 1 test - 2 s 279 ms
NoteTest (com.journaler) 2 s 279 ms
crud 2 s 279 ms
2018-05-14 13:37:26.672 INFO 8784 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{app
2018-05-14 13:37:26.676 INFO 8784 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{app
2018-05-14 13:37:26.681 INFO 8784 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "://{app
2018-05-14 13:37:27.393 INFO 8784 --- [main] com.journaler.NoteTest : Started NoteTe
Removing note with id: a4071d8e-c0c5-498b-817b-8614633a18be
Removing note with id: 45a25d8-6774-49e2-9417-5c34a10963b
Removing note with id: b94ef70b-408c-4289-baba-b9bfefdb7957
Removing note with id: 47e1f873-4ec4-4da5-b614-6ebb6dbb1854
Removing note with id: 1b6d4a08-3ba2-479f-859e-1cd55b3cf625
Removing note with id: 54d22bc9-4d59-40f4-a57b-d86665f025b0
Removing note with id: 2b0283a2-b86b-4537-bd10-446ca388193d
Removing note with id: fe1aef38-b4d3-4f58-acec-c2d3e43d3e01
Removing note with id: bf8a5888-c6b9-41dc-885c-83ce06247d2b
Removing note with id: 080a5141-ed55-41d9-bcf2-d87524a8a7bc
Removing note with id: df8f303b-d9f7-496c-a458-a17239908621
2018-05-14 13:37:30.200 INFO 8784 --- [Thread-2] o.s.w.c.s.GenericWebApplicationContext : Closing org.sp
2018-05-14 13:37:30.217 INFO 8784 --- [Thread-2] j.LocalContainerEntityManagerFactoryBean : Closing JPA En
2018-05-14 13:37:30.223 INFO 8784 --- [Thread-2] com.zaxxer.hikari.HikariDataSource : testdb - Shutd
2018-05-14 13:37:30.304 INFO 8784 --- [Thread-2] com.zaxxer.hikari.HikariDataSource : testdb - Shutd

Process finished with exit code 0

```

```

Run [x] TodoTest
1 test passed - 445ms
  TodoTest (com.journaler) 445ms
    crud 445ms
2018-02-25 13:04:04.079 INFO 4915 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:04:04.079 INFO 4915 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:04:04.079 INFO 4915 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:04:04.080 INFO 4915 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:04:04.166 INFO 4915 [main] com.journaler.TODOTest :
Removing todo with id: 95d50b58-0be4-4f29-b183-ff28889ce55d
Removing todo with id: 0e8340aa-9d66-4d63-b9f7-264c7078e421
Removing todo with id: 61676a50-4aa3-48c4-b731-425d8ffaf6397
Removing todo with id: 3340df55-f42c-4b0b-ae68-f4a2762be417
Removing todo with id: 04a60cac-ce9f-442d-b03e-26c77c05c63c
Removing todo with id: a13317ee-8cfe-4ee4-a141-139bc04e35ba
Removing todo with id: 832391b4-fd5b-4168-89dc-71c46fa56d7d
Removing todo with id: 738755fb-39e5-4b2f-b2d2-2ad417325bd4
Removing todo with id: 0163b09e-5094-423e-a660-572c20b1ef4
Removing todo with id: b518d927-42ea-4b11-bc32-7fd0818a2d80
Removing todo with id: a24d7a0b-49b8-4caa-a59f-f451934b5768
2018-02-25 13:04:04.624 INFO 4915 [Thread-2] o.s.w.c.s.GenericWebApplicationContext :
2018-02-25 13:04:04.630 INFO 4915 [Thread-2] j.LocalContainerEntityManagerFactoryBean :
2018-02-25 13:04:04.630 INFO 4915 [Thread-2] com.zaxxer.hikari.HikariDataSource :
2018-02-25 13:04:04.634 INFO 4915 [Thread-2] com.zaxxer.hikari.HikariDataSource :
Process finished with exit code 0

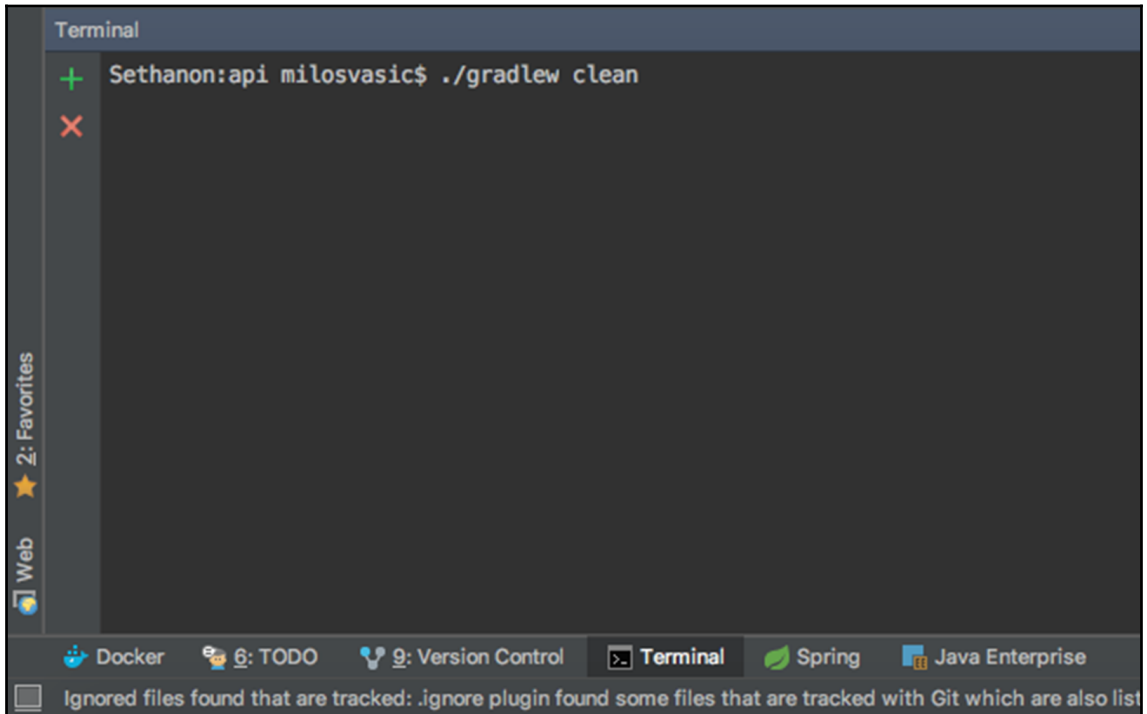
```

```

Run [x] SuiteTest
All 2 tests passed - 561ms
  SuiteTest (com.journaler) 561ms
    NoteTest 432ms
    TodoTest 129ms
      crud 129ms
2018-02-25 13:12:44.202 INFO 5349 [main] s.w.s.m.a.RequestMappingHandlerMapping :
2018-02-25 13:12:44.202 INFO 5349 [main] s.w.s.m.a.RequestMappingHandlerMapping :
2018-02-25 13:12:44.202 INFO 5349 [main] s.w.s.m.a.RequestMappingHandlerMapping :
2018-02-25 13:12:44.204 INFO 5349 [main] s.w.s.m.a.RequestMappingHandlerMapping :
2018-02-25 13:12:44.204 INFO 5349 [main] s.w.s.m.a.RequestMappingHandlerMapping :
2018-02-25 13:12:44.247 INFO 5349 [main] o.s.w.s.handler.SimpleUrlHandlerMapping :
2018-02-25 13:12:44.248 INFO 5349 [main] o.s.w.s.handler.SimpleUrlHandlerMapping :
2018-02-25 13:12:44.293 INFO 5349 [main] o.s.w.s.handler.SimpleUrlHandlerMapping :
2018-02-25 13:12:44.800 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.800 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.801 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.801 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.801 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.801 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.801 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.802 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.802 INFO 5349 [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping :
2018-02-25 13:12:44.932 INFO 5349 [main] com.journaler.NoteTest :
2018-02-25 13:12:45.510 INFO 5349 [Thread-2] o.s.w.c.s.GenericWebApplicationContext :
2018-02-25 13:12:45.518 INFO 5349 [Thread-2] j.LocalContainerEntityManagerFactoryBean :
2018-02-25 13:12:45.519 INFO 5349 [Thread-2] com.zaxxer.hikari.HikariDataSource :
2018-02-25 13:12:45.523 INFO 5349 [Thread-2] com.zaxxer.hikari.HikariDataSource :
Process finished with exit code 0

```

Chapter 10: Project Deployment



```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
× Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
Sethanon:api milosvasic$
```

Docker 6: TODO 9: Version Control Terminal Spring Java Enterprise

Ignored files found that are tracked: .ignore plugin found some files that are tracked with Git which are also listed in .git

```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
X Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
```

Web 2: Favorites

Docker 6: TODO 9: Version Control Terminal Spring Java Enterprise

Push successful: Pushed 1 commit to origin/master (a minute ago)

```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
X Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler

BUILD SUCCESSFUL in 9s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$
```

Web 2: Favorites

Docker 6: TODO 9: Version Control Terminal Spring Java Enterprise

Push successful: Pushed 1 commit to origin/master (2 minutes ago)

```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
X Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/

BUILD SUCCESSFUL in 9s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$ ls
README.md      api.iml        build          build.gradle   gradle         gradlew        gradlew.bat    out
Sethanon:api milosvasic$
```

Web Z: Favorites

Docker 6: TODO 9: Version Control Terminal Spring Java Enterprise

Push successful: Pushed 1 commit to origin/master (3 minutes ago)

```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
X Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/

BUILD SUCCESSFUL in 9s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$ ls
README.md      api.iml        build          build.gradle   gradle         gradlew        gradlew.bat    out
Sethanon:api milosvasic$ cd build/libs/
Sethanon:libs milosvasic$ ls
api-0.0.1-SNAPSHOT.jar
Sethanon:libs milosvasic$
```

Web 2: Favorites

Docker 8: TODO 9: Version Control Terminal Spring Java Enterprise

Push successful: Pushed 1 commit to origin/master (4 minutes ago)

```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
x Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/

BUILD SUCCESSFUL in 9s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$ ls
README.md      api.iml        build          build.gradle   gradle         gradlew        gradlew.bat    out
Sethanon:api milosvasic$ cd build/libs/
Sethanon:libs milosvasic$ ls
api-0.0.1-SNAPSHOT.jar
Sethanon:libs milosvasic$ cp ./api-0.0.1-SNAPSHOT.jar ~/Desktop/

Web 2: Favorites
Docker 8: TODO 9: Version Control Terminal Spring Java Enterprise
Push successful: Pushed 1 commit to origin/master (6 minutes ago)
```

```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
x Starting a Gradle Daemon (subsequent builds will be faster)

BUILD SUCCESSFUL in 4s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/api/controller/NoteController.kt: (30, 21): Assigning single
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/api/controller/NoteController.kt: (46, 21): Assigning single
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/api/controller/ToDoController.kt: (30, 21): Assigning single
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/api/controller/ToDoController.kt: (44, 21): Assigning single
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler API/api/src/main/kotlin/com/journaler/api/service/ToDoService.kt: (45, 71): Name shadowed: it

BUILD SUCCESSFUL in 9s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$ ls
README.md      api.iml        build          build.gradle   gradle         gradlew        gradlew.bat    out          src
Sethanon:api milosvasic$ cd build/libs/
Sethanon:libs milosvasic$ ls
api-0.0.1-SNAPSHOT.jar
Sethanon:libs milosvasic$ cp ./api-0.0.1-SNAPSHOT.jar ~/Desktop/
Sethanon:libs milosvasic$ cd ~/Desktop/
Sethanon:Desktop milosvasic$ java -jar ./api-0.0.1-SNAPSHOT.jar

Web 2: Favorites
Docker 8: TODO 9: Version Control Terminal Spring Java Enterprise
Push successful: Pushed 1 commit to origin/master (7 minutes ago)
```

```
Terminal
... 22 common frames omitted
2018-03-04 09:22:15.140 INFO 2463 --- [main] o.apache.catalina.core.StandardService : Stopping service [Tomcat]
2018-03-04 09:22:15.150 INFO 2463 --- [main] utoConfigurationReportLoggingInitializer :

Error starting ApplicationContext. To display the auto-configuration report re-run your application with 'debug' enabled.
2018-03-04 09:22:15.152 ERROR 2463 --- [main] o.s.b.d.LoggingFailureAnalysisReporter :

*****
APPLICATION FAILED TO START
*****

Description:

The Tomcat connector configured to listen on port 80 failed to start. The port may already be in use or the connector may be misconfigured.

Action:

Verify the connector's configuration, identify and stop any process that's listening on port 80, or configure this application to listen on another port.

2018-03-04 09:22:15.154 INFO 2463 --- [main] ConfigServletWebServerApplicationContext : Closing org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApp
2018-03-04 09:22:15.156 INFO 2463 --- [main] o.s.j.e.s.AnnotationBeanExporter : Unregistering JMX-exposed beans on shutdown
2018-03-04 09:22:15.157 INFO 2463 --- [main] o.s.j.e.s.AnnotationBeanExporter : Unregistering JMX-exposed beans
2018-03-04 09:22:15.158 INFO 2463 --- [main] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2018-03-04 09:22:15.161 INFO 2463 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown initiated...
2018-03-04 09:22:15.165 INFO 2463 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown completed.

Sethanon@Desktop milosvasic$
```

```
Terminal
2018-03-04 09:22:15.140 INFO 2463 --- [main] o.apache.catalina.core.StandardService : Stopping service [Tomcat]
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2018-03-04 09:22:15.157 INFO 2463 --- [main] o.s.j.e.s.AnnotationBeanExporter : Unregistering JMX-exposed beans
2018-03-04 09:22:15.158 INFO 2463 --- [main] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2018-03-04 09:22:15.161 INFO 2463 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown initiated...
2018-03-04 09:22:15.165 INFO 2463 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown completed.

Sethanon@Desktop milosvasic$ sudo java -jar ./api-0.0.1-SNAPSHOT.jar
Password:
2018-03-04 09:22:15.140 INFO 2463 --- [main] o.apache.catalina.core.StandardService : Stopping service [Tomcat]
2018-03-04 09:22:15.150 INFO 2463 --- [main] utoConfigurationReportLoggingInitializer :

Error starting ApplicationContext. To display the auto-configuration report re-run your application with 'debug' enabled.
2018-03-04 09:22:15.152 ERROR 2463 --- [main] o.s.b.d.LoggingFailureAnalysisReporter :

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Action:

Verify the connector's configuration, identify and stop any process that's listening on port 80, or configure this application to listen on another port.

2018-03-04 09:22:15.154 INFO 2463 --- [main] ConfigServletWebServerApplicationContext : Closing org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApp
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2018-03-04 09:22:15.157 INFO 2463 --- [main] o.s.j.e.s.AnnotationBeanExporter : Unregistering JMX-exposed beans
2018-03-04 09:22:15.158 INFO 2463 --- [main] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2018-03-04 09:22:15.161 INFO 2463 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown initiated...
2018-03-04 09:22:15.165 INFO 2463 --- [main] com.zaxxer.hikari.HikariDataSource : testdb - Shutdown completed.

Sethanon@Desktop milosvasic$
```



```
Terminal
+ 2018-03-04 09:23:04.914 INFO 2469 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/notes],methods=[POST],consumes=[application/json],
x 2018-03-04 09:23:04.917 INFO 2469 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error]}" onto public org.springframework.http.Response
2018-03-04 09:23:04.918 INFO 2469 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error],produces=[text/html]}" onto public org.spring
t(Response)
2018-03-04 09:23:04.957 INFO 2469 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler of type [class org.
2018-03-04 09:23:04.957 INFO 2469 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type [class org.springframework
2018-03-04 09:23:05.005 INFO 2469 --- [main] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto handler of type [class org.
2018-03-04 09:23:05.650 INFO 2469 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/application/health],methods=[GET],produces=[application
andle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-03-04 09:23:05.651 INFO 2469 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/application/status],methods=[GET],produces=[application
andle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-03-04 09:23:05.651 INFO 2469 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/application/info],methods=[GET],produces=[application/v
dle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-03-04 09:23:05.651 INFO 2469 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/application/metrics/{requireMetricName}],methods=[GET]
ing$operationHandler.handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-03-04 09:23:05.651 INFO 2469 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/application/metrics],methods=[GET],produces=[applicatio
handle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-03-04 09:23:05.652 INFO 2469 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/application/trace],methods=[GET],produces=[application/
ndle(javax.servlet.http.HttpServletRequest,java.util.Map<java.lang.String, java.lang.String>)
2018-03-04 09:23:05.654 INFO 2469 --- [main] s.b.a.e.w.s.WebMvcEndpointHandlerMapping : Mapped "{[/application],methods=[GET]}" onto private java.util.Map
links(javax.servlet.http.HttpServletRequest)
2018-03-04 09:23:05.746 INFO 2469 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Registering beans for JMX exposure on startup
2018-03-04 09:23:05.748 INFO 2469 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Bean with name 'dataSource' has been autodetected for JMX exposure
2018-03-04 09:23:05.754 INFO 2469 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Located MBean 'dataSource': registering with JMX server as MBean
2018-03-04 09:23:05.823 INFO 2469 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 80 (http)
2018-03-04 09:23:05.827 INFO 2469 --- [main] com.journaler.api.ApiApplicationKt : Started ApiApplicationKt in 6.281 seconds (JVM running for 6.711)

Docker 8: TODO 9: Version Control Terminal Spring Java Enterprise
Push successful: Pushed 1 commit to origin/master (8 minutes ago)
```

Insert note

PUT http://localhost/notes

Authorization Headers (1) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "title": "Preparing for production",
3   "message": "Preparing!"
4 }
```

Body Cookies (2) Headers (9) Test Results

Pretty Raw Preview JSON

```
1 {
2   "title": "Preparing for production",
3   "message": "Preparing!",
4   "location": "",
5   "id": "93cb9324-5439-497d-a56d-223119b0b52a",
6   "created": 1520152071612,
7   "modified": 1520152071612
8 }
```

► Obtain notes

GET

Authorization Headers Body Pre-request Script Tests

TYPE

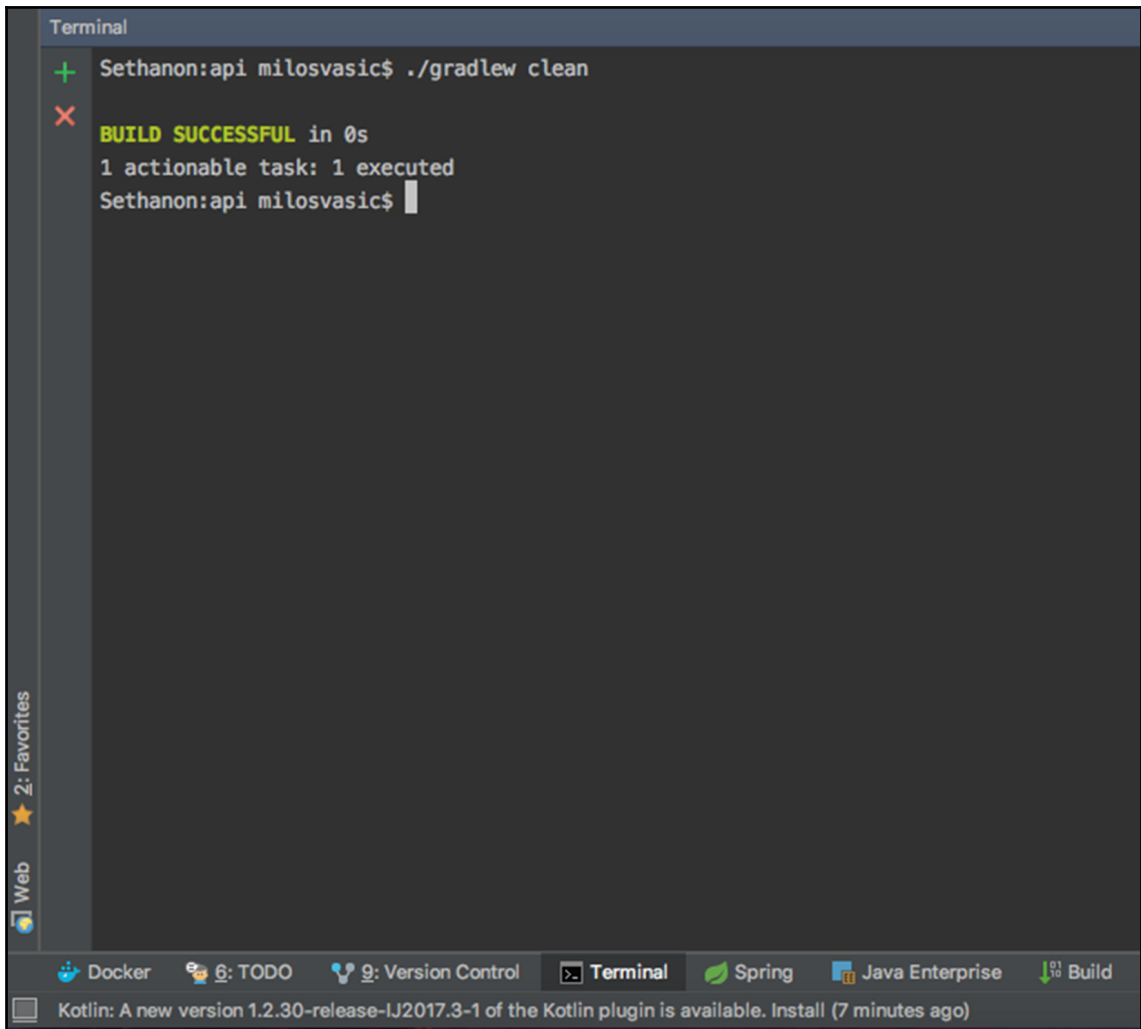
Inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Body Cookies (2) Headers (9) Test Results

Pretty Raw Preview JSON

```
1 [
2   {
3     "title": "Preparing for production 3",
4     "message": "Preparing! 3",
5     "location": "",
6     "id": "03355eca-69ea-411d-9e6a-f8faa2af7657",
7     "created": 1520152134000,
8     "modified": 1520152134000
9   },
10  {
11     "title": "Preparing for production 2",
12     "message": "Preparing! 2",
13     "location": "",
14     "id": "6a00cdef-caca-4bf2-85af-aa00e7347da8",
15     "created": 1520152129000,
16     "modified": 1520152129000
17   },
18  {
19     "title": "Preparing for production",
20     "message": "Preparing!",
21     "location": "",
22     "id": "93cb9324-5439-497d-a56d-223119b0b52a",
23     "created": 1520152072000,
24     "modified": 1520152072000
25   }
26 ]
```



```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
× BUILD SUCCESSFUL in 0s
  1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler

BUILD SUCCESSFUL in 2s
  3 actionable tasks: 3 executed
Sethanon:api milosvasic$
```

Docker 6: TODO 9: Version Control Terminal Spring Java Enterprise Build

Kotlin: A new version 1.2.30-release-IJ2017.3-1 of the Kotlin plugin is available. Install (9 minutes ago)

```
Terminal
+ w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
x Sethanon:api milosvasic$ ./gradlew clean

BUILD SUCCESSFUL in 0s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journaler

BUILD SUCCESSFUL in 2s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$ cd ./build/libs/
Sethanon:libs milosvasic$
```

Docker 6: TODO 9: Version Control Terminal Spring Java Enterprise Build

Kotlin: A new version 1.2.30-release-IJ2017.3-1 of the Kotlin plugin is available. Install (10 minutes ago)

```
Terminal
+ Sethanon:api milosvasic$ ./gradlew clean
× BUILD SUCCESSFUL in 0s
1 actionable task: 1 executed
Sethanon:api milosvasic$ ./gradlew assemble
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journal
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journal
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journal
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journal
w: /Users/milosvasic/Projects/Building-Applications-with-Spring-5-and-Kotlin/Journal

BUILD SUCCESSFUL in 2s
3 actionable tasks: 3 executed
Sethanon:api milosvasic$ cd ./build/libs/
Sethanon:libs milosvasic$ ls
api-0.0.1-SNAPSHOT.war
Sethanon:libs milosvasic$
```

Docker 6: TODO 9: Version Control Terminal Spring Java Enterprise Build

The screenshot shows the AWS Free Tier landing page. At the top is a navigation bar with the AWS logo, links for 'Contact Sales', 'Products', 'Solutions', 'Pricing', 'More', 'English', 'My Account', and a 'Create an AWS Account' button. Below the navigation is a hero section with a purple and orange background, featuring the title 'AWS Free Tier' and a sub-headline: 'The AWS Free Tier enables you to gain free, hands-on experience with the AWS platform, products, and services.' A 'Create a Free Account' button is centered in the hero section.

Below the hero section are three tabs: 'Free Tier Details', 'Get Started', and 'Free Tier Software'. The 'Free Tier Details' tab is active, showing a sub-section titled 'AWS Free Tier Details'. Underneath are filter options: '★ FEATURED', '12 MONTHS FREE', 'ALWAYS FREE', 'PRODUCT CATEGORIES', and 'ALL'. The main content area displays three product cards:

- 12 months free and always free products**
AWS Free Tier includes offers that expire 12 months following sign up and others that
- COMPUTE**
Amazon EC2
750 Hours
per month
- ANALYTICS**
Amazon QuickSight
1 GB
of SPICE capacity

Create an AWS account

AWS Accounts Include 12 Months of Free Tier Access

Including use of Amazon EC2, Amazon S3, and Amazon DynamoDB

Visit aws.amazon.com/free for full offer terms

Email address

Password

Confirm password

AWS account name ⓘ

Continue

[Sign in to an existing AWS account](#)

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Contact Information

All fields are required.

Please select the account type and complete the fields below with your contact details.

Account type ⓘ

Professional Personal

Full name

milos85vasic

Company name

Phone number

Country/Region

United States

Address

Street, P.O. Box, Company Name, c/o

Apartment, suite, unit, building, floor, etc.

City

State / Province or region

Postal code

Check here to indicate that you have read and agree to the terms of the [AWS Customer Agreement](#)

Create Account and Continue

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Payment Information

Please type your payment information so we can verify your identity. We will not charge you unless your usage exceeds the [AWS Free Tier Limits](#). Review [frequently asked questions](#) for more information.

Credit/Debit card number

Expiration date

Cardholder's name

Billing address

Use my contact address

1234 Main Street
Seattle, WA 98101
USA

Use a new address

Secure Submit

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Phone Verification

AWS will call you immediately using an automated system. When prompted, enter the 4-digit number from the AWS website on your phone keypad.

Provide a telephone number

Please enter your information below and click the "Call Me Now" button.

Country/Region code

United Kingdom (+44) ▾

Phone number

Ext

Security Check



24d36w

Speaker icon

Refresh icon

Please type the characters as shown above

Call Me Now

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Phone Verification

AWS will call you immediately using an automated system. When prompted, enter the 4-digit number from the AWS website on your phone keypad.

Provide a telephone number

Please enter your information below and click the "Call Me Now" button.

Country/Region code

+1 (202) 452-1000



Your identity has been verified successfully.

Continue

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AWS offers a selection of support plans to meet your needs. Choose the support plan that best aligns with your AWS usage. [Learn more](#)



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- Best practice checks to help improve security and performance
- Access to health status and notifications



Developer Plan

From \$29/month

- For early adoption, testing and development
- Email access to AWS Support during business hours
- 1 primary contact can open an unlimited number of support cases
- 12-hour response time for nonproduction systems



Business Plan

From \$100/month

- For production workloads & business-critical dependencies
- 24/7 chat, phone, and email access to AWS Support
- Unlimited contacts can open an unlimited number of support cases
- 1-hour response time for production systems

Need Enterprise level support?

Contact your account manager for additional information on running business and mission critical-workloads on AWS (starting at \$15,000/month). [Learn more](#)

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Welcome to Amazon Web Services

Thank you for creating an Amazon Web Services Account. We are activating your account, which should only take a few minutes. You will receive an email when this is complete.

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English 

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Build a web app
With Elastic Beanstalk
~6 minutes




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~1-2 minutes



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~5 minutes



Start a development project
With CodeStar
~5 minutes




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aws Services Resource Groups

Elastic Beanstalk

Try the new design ✕

We're testing a new design for the environment creation wizard. [Opt in now](#) to try it and let us know what you think!

Application Info
New Environment

Application Information

To create a new application, enter the details of your application.

Application name: Must be less than 100 characters and cannot contain a /

Description: Optional.

[Cancel](#) [Next](#)

Application Info

New Environment

AWS Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens for messages on an Amazon SQS queue. Worker applications post those messages to your application by using HTTP.

Web Server Environment

Provides resources for an AWS Elastic Beanstalk web server in either a single instance or load-balancing, auto scaling environment. [Learn more](#)

[Create web server](#)

Worker Environment*

Provides resources for an AWS Elastic Beanstalk worker application in either a single instance or load-balancing, auto scaling environment. [Learn more](#)

[Create worker](#)

[Cancel](#) [Done](#)

Environment Type

Choose the platform and type of environment to launch.

Predefined configuration: Looking for a different platform? [Let us know.](#)

AWS Elastic Beanstalk will create an environment running Java 8 on 64bit Amazon Linux 2017.09 v2.6.6. [Change platform version.](#)

Environment type: [Learn more](#)

[Cancel](#) [Previous](#) [Next](#)

Application Version

Select a source for your application version.

Source: Sample application

Upload your own ([Learn more](#))

No file chosen

S3 URL

(e.g. <https://s3.amazonaws.com/s3Bucket/s3Key>)

Application Version

Select a source for your application version.

Source: Sample application

Upload your own ([Learn more](#))

api-0.0.1-SNAPSHOT.jar

S3 URL

(e.g. <https://s3.amazonaws.com/s3Bucket/s3Key>)

Application Version

Select a source for your application version.

Source: Sample application

Upload your own ([Learn more](#))

api-0.0.1-SNAPSHOT.jar

S3 URL

(e.g. <https://s3.amazonaws.com/s3Bucket/s3Key>)

Uploading application version...

Environment Information

Enter your environment information.

Environment name:

Environment URL:

Description: Optional: 200 character maximum

Environment Information

Enter your environment information.

Environment name:

Environment URL:

Description: Optional: 200 character maximum

Additional Resources

Select additional resources for this environment.

- Create an RDS DB Instance with this environment [Learn more](#)
- Create this environment inside a VPC [Learn more](#)

Configuration Details

Modify the following settings or click Next to accept the default configuration. [Learn more](#)

Instance type:
 Determines the processing power of the servers in your environment.

EC2 key pair: [Refresh](#)
 Optional: Enables remote login to your instances.

Email address: Optional: Get notified about any major changes to your environment.

Health Reporting

System type:
 Determines the health reporting type.

Root Volume (Boot Device)

Root volume type:
 Determines the type of storage volume to attach to instances.

Root volume size: Enables you to specify the size of the root volume.

Number of gibabytes of the root volume attached to each instance. Must be between 10 and 16384 for Provisioned IOPS (SSD) and General Purpose (SSD) root volumes and between 8 and 1024 for other root volumes.

[Cancel](#) [Previous](#) [Next](#)

Environment Tags

You can specify tags (key-value pairs) for your Environment. You can add up to 47 unique key-value pairs for each Environment.

Key (128 characters maximum)	Value (256 characters maximum)
1. <input type="text"/>	<input type="text"/>

47 remaining

[Cancel](#) [Previous](#) [Next](#)

RDS Configuration

Specify your RDS settings. [Learn more](#)

Snapshot: Refresh

DB engine:

DB engine version:

Instance class:

Allocated storage: GB
You must specify a value from 5 GB to 1024 GB.

Username:

Password:

Retention setting:
Terminating your environment can permanently delete your Amazon RDS DB instance and all its data. By default, AWS Elastic Beanstalk saves a snapshot, which preserves your data but may incur backup storage charges.

Availability:

Cancel Previous **Next**

VPC Configuration

Select the VPC to use when creating your environment. [Learn more](#)

VPC: Refresh

Associate Public IP Address

Select the subnets for EC2 instances in your Availability Zone.

AZ	Subnet	EC2	RDS
us-east-2a	subnet-e7f97c8f (172.31.0.0/20)	<input type="checkbox"/>	<input type="checkbox"/>
us-east-2b	subnet-8615e8fc (172.31.16.0/20)	<input type="checkbox"/>	<input type="checkbox"/>
us-east-2c	subnet-04d6fd49 (172.31.32.0/20)	<input type="checkbox"/>	<input type="checkbox"/>

VPC security group: Refresh

Cancel Previous **Next**

VPC Configuration

Select the VPC to use when creating your environment. [Learn more](#)

VPC: [Refresh](#)

Associate Public IP Address

Select the subnets for EC2 instances in your Availability Zone.

AZ	Subnet	EC2	RDS
us-east-2a	subnet-e7f97c8f (172.31.0.0/20)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
us-east-2b	subnet-8615e8fc (172.31.16.0/20)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
us-east-2c	subnet-04d6fd49 (172.31.32.0/20)	<input type="checkbox"/>	<input type="checkbox"/>

VPC security group: [Refresh](#)

[Cancel](#)

[Previous](#)

[Next](#)

Permissions

Select an instance profile and service role for your AWS Elastic Beanstalk environment.

An instance profile is an IAM role configured for use with EC2 instances. The instances in your Elastic Beanstalk use the credentials provided by the instance profile to communicate with AWS.

A service role allows the Elastic Beanstalk service to monitor environment resources on your behalf. See [Roles and Instance Profiles](#) in the Elastic Beanstalk developer guide for details.

Instance profile:

Service role:

Elastic Beanstalk will create a service role and instance profile with a standard set of permissions. [Learn more](#)

[Cancel](#)

[Previous](#)

[Next](#)

- Application Info
- New Environment
- Environment Type
- Application Version
- Environment Info
- Additional Resources
- Configuration Details
- Environment Tags
- RDS Configuration
- VPC Configuration
- Permissions
- Review Information**

Review

Review the following information. Then click "Launch."

Application Info

Application name Journaler API
Description Example application.

New Environment

Tier Web Server

Environment Type

Container type 64bit Amazon Linux 2017.09 v2.6.6 running Java 8
Environment type Single instance

Application Version

Application source C:\fakepath\api-0.0.1-SNAPSHOT.jar

Environment Info

Environment name journalerApi-env
Environment URL http://journalerapi-env.us-east-2.elasticbeanstalk.com

Configuration Details

Instance type t2.nano
Key pair
Email address (default)
Root volume type (default)
Root volume size (default)
Root volume IOPS

All Applications > Journaler API > journalerApi-env Actions ▾

Dashboard
 Configuration
 Logs
 Health
 Monitoring
 Alarms
 Managed Updates
 Events
 Tags

Elastic Beanstalk is launching your environment. [View Events](#)

Overview Refresh

Health
Grey
[Causes](#)

Running Version
Upload and Deploy

Configuration
64bit Amazon Linux 2017.09
v2.6.6 running Java 8
[Change](#)

Recent Events Show All

Time	Type	Details
2018-03-04 12:58:15 UTC+0100	INFO	Creating RDS database named: aa5d0zzf02dnhm. This may take a few minutes.
2018-03-04 12:58:15 UTC+0100	INFO	Created security group named: sg-7329b718
2018-03-04 12:58:14 UTC+0100	INFO	Created security group named: sg-4c25bb27
2018-03-04 12:57:46 UTC+0100	INFO	Using elasticbeanstalk-us-east-2-380449439350 as Amazon S3 storage bucket for environment data.
2018-03-04 12:57:43 UTC+0100	INFO	createEnvironment is starting.

All Applications > Journaler API > journalerApi-env Actions ▾

Dashboard
 Configuration
 Logs
 Health
 Monitoring
 Alarms
 Managed Updates
 Events
 Tags

Overview Refresh

Health
Green
[Causes](#)

Running Version
First Release
[Upload and Deploy](#)

Configuration
64bit Amazon Linux 2017.09
v2.6.6 running Java 8
[Change](#)

Recent Events Show All

Time	Type	Details
2018-03-04 13:07:15 UTC+0100	INFO	Successfully launched environment: journalerApi-env
2018-03-04 13:06:34 UTC+0100	INFO	Adding instance 'i-055b86463ed287735' to your environment.
2018-03-04 13:06:34 UTC+0100	INFO	Added EC2 instance 'i-055b86463ed287735' to Auto Scaling Group 'aws-eb-e-q32evjckle-stack-AWSEBAutoScalingGroup-1M341UIVBOW8G'.
2018-03-04 13:06:34 UTC+0100	INFO	Environment health has been set to GREEN
2018-03-04 13:05:58 UTC+0100	INFO	Waiting for EC2 instances to launch. This may take a few minutes.

All Applications > Journaler API > journalerApi-env (Environment ID: e-q32evgicke, URL: journalerapi-env-us-east-2.elasticbeanstalk.com) Actions

Dashboard

Configuration

Logs

Health

Monitoring

Alarms

Managed Updates

Events

Tags

Web Tier

Scaling ⚙️

Environment type: Single instance

Instances ⚙️

Instance type: t2.nano
Availability Zones: Any

Notifications ⚙️

Notifications: On
Send notifications to: blank

Software Configuration ⚙️

AWS X-Ray: disabled
Log publication: Off
Log streaming: disabled

Updates and Deployments ⚙️

Rolling updates are disabled

Health ⚙️

Application health check URL: blank
Health reporting: Basic

Managed Updates ⚙️

Managed updates are disabled

api-0.0.3-SNAPSHOT.jar

Monitoring

Alarms

Managed Updates

Events

Tags

Log Options

The following settings control the log publication behavior.

Instance profile: aws-elasticbeanstalk-ec2-role Refresh

The instance profile grants your environment specific permissions under your AWS account. [Learn more](#)

Enable log file rotation to Amazon S3. If checked, service logs are published to S3.

CloudWatch logs

Configure the instances in your environment to stream logs to CloudWatch. You can set the retention to up to ten years and configure Elastic Beanstalk to delete the logs when you terminate your environment.

Log streaming Enabled (Standard CloudWatch charges apply)

Retention: 7 days

Lifecycle: Keep logs after terminating er

Static Files

To improve performance, you can configure Apache or Nginx to serve static files from a set of directories inside your web application. [Learn more](#)

Virtual Path (Example: /assets)	Directory (Example: /static/assets)
api-0.0.3-SNAPSHOT.jar	
<input type="text"/>	<input type="text"/> +

Environment Properties

The following properties are passed into the application as environment variables. [Learn more](#)

Property Name	Property Value
GRADLE_HOME	<input type="text" value="/usr/local/gradle"/>
JAVA_HOME	<input type="text" value="/usr/lib/jvm/java"/>
M2	<input type="text" value="/usr/local/apache-maven/bin"/>
M2_HOME	<input type="text" value="/usr/local/apache-maven"/>
<input type="text"/>	<input type="text"/> +

Cancel Apply

Property Name	Property Value
GRADLE_HOME	<input type="text" value="/usr/local/gradle"/>
JAVA_HOME	<input type="text" value="/usr/lib/jvm/java"/>
M2	<input type="text" value="/usr/local/apache-maven/bin"/>
M2_HOME	<input type="text" value="/usr/local/apache-maven"/>
SERVER_PORT	<input type="text" value="5000"/> ✕
<input type="text"/>	<input type="text"/> +

[Cancel](#) [Apply](#)

Data Tier

RDS



Endpoint: aa5d0lzzf02dnm.cbpdar2dvspv.us-east-2.rds.amazonaws.com:3306 

Engine: mysql

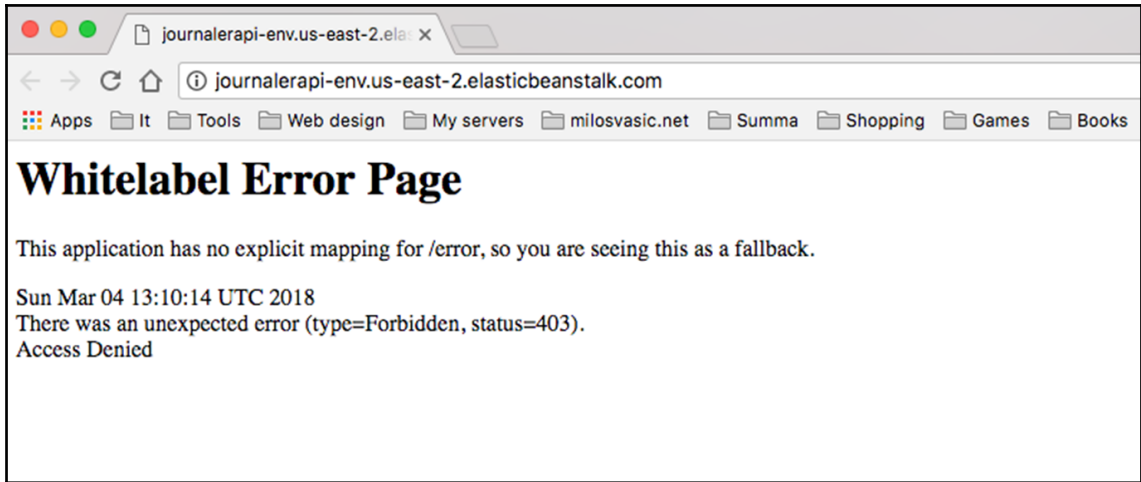
Instance class: db.t2.micro

Storage: 5GB

Multi Availability Zone: false

When the environment is deleted: Snapshot the data before deleting the database

Property Name	Property Value
GRADLE_HOME	<input type="text" value="/usr/local/gradle"/>
JAVA_HOME	<input type="text" value="/usr/lib/jvm/java"/>
M2	<input type="text" value="/usr/local/apache-maven/bin"/>
M2_HOME	<input type="text" value="/usr/local/apache-maven"/>
SERVER_PORT	<input type="text" value="5000"/> ✕
SPRING_DATASOURCE_PASSWORD	<input type="text" value="localInstance2017"/> ✕
SPRING_DATASOURCE_URL	<input type="text" value="jdbc:mysql://aa5d0lzzf02dnm.cb"/> ✕
SPRING_DATASOURCE_USERNAME	<input type="text" value="root"/> ✕
SPRING_JPA_DATABASE_PLATFORM	<input type="text" value="org.hibernate.dialect.MySQL5Dia"/> ✕
SPRING_JPA_HIBERNATE_DDL_AUTO	<input type="text" value="update"/> ✕
<input type="text"/>	<input type="text"/> +



The screenshot shows a REST client interface with the following components:

- Method:** PUT
- URL:** http://journalerapi-env.us-east-2.elasticbeanstalk.com/notes
- Request Tab:** Authorization, Headers (1), Body (selected), Pre-request Script, Tests
- Authorization:** TYPE: Inherit auth from parent
- Body Tab:** Body (selected), Cookies, Headers (11), Test Results
- Body Format:** Pretty, Raw, Preview (selected), JSON, and a refresh icon.
- Response Body:**

```
1 {
2   "title": "Preparing for production 3",
3   "message": "Preparing! 3",
4   "location": "",
5   "id": "78bee82a-4f0e-4d06-9588-6ea2699e35e7",
6   "created": 1520169260295,
7   "modified": 1520169260295
8 }
```