PROMINEO TECH

Web API Design with SpringBoot Week 2 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your Java project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

Follow the tutorial in the homework section to build an API. Paste screenshots of your code and your postman requests and responses to show the API works. Push your project to GitHub and paste the link below.

Screenshots of Code / Screenshots of Running Application:

bin — mysql -u root -p — 86×35

```
[Danielles-MacBook-Air:bin danielleyokley$ mysql -u root -p
[Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 62
Server version: 8.0.17 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

[mysql> create database inventory_api;
Query OK, 1 row affected (0.03 sec)

[mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| employees          |
| information_schema |
| inventory_api      |
| mysql              |
| performance_schema |
| pets               |
| social_api         |
| social_api_hw      |
| sys                |
| teams              |
+--------------------+
10 rows in set (0.03 sec)

mysql>
```

inventoryManagement — -bash — 87×32

```
-------------------------------------------------------
 T E S T S
-------------------------------------------------------
Running com.promineotech.inventoryManagement.AppTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.003 sec - in com.prom
ineotech.inventoryManagement.AppTest

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO]
[INFO] --- maven-jar-plugin:2.5:jar (default-jar) @ inventoryManagement ---
[INFO] Building jar: /Users/danielleyokley/eclipse-workspace/inventoryManagement/target
/inventoryManagement-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ inventoryManagement -
--
[INFO] Installing /Users/danielleyokley/eclipse-workspace/inventoryManagement/target/in
ventoryManagement-0.0.1-SNAPSHOT.jar to /Users/danielleyokley/.m2/repository/com/promin
eotech/inventoryManagement/0.0.1-SNAPSHOT/inventoryManagement-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/danielleyokley/eclipse-workspace/inventoryManagement/pom.xml t
o /Users/danielleyokley/.m2/repository/com/promineotech/inventoryManagement/0.0.1-SNAPS
HOT/inventoryManagement-0.0.1-SNAPSHOT.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  5.049 s
[INFO] Finished at: 2019-09-24T21:51:20-07:00
[INFO] ------------------------------------------------------------------------
Danielles-MacBook-Air:inventoryManagement danielleyokley$
```

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Grab   File   Edit   Capture   Window   Help

🔵🔵🔵   📁 inventoryManagement — java -classpath ~/Downloads/apache-maven-3.6.2/boot/plexus-classworlds-2.6.0.jar -Dclassworlds.conf=/Use...

```
2019-09-24 21:52:19.742  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error],produces=[text/html]}
" onto public org.springframework.web.servlet.ModelAndView org.springframework.boot.autoconfigure.web.BasicErrorController.error
Html(javax.servlet.http.HttpServletRequest)
2019-09-24 21:52:19.777  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] o.s.w.s.h.SimpleUrlHandlerMapping        : Mapped URL path [/webjars/**] onto hand
ler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2019-09-24 21:52:19.777  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] o.s.w.s.h.SimpleUrlHandlerMapping        : Mapped URL path [/**] onto handler of t
ype [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2019-09-24 21:52:19.825  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] o.s.w.s.h.SimpleUrlHandlerMapping        : Mapped URL path [/**/favicon.ico] onto
handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2019-09-24 21:52:20.016  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] o.s.j.e.a.AnnotationMBeanExporter         : Registering beans for JMX exposure on s
tartup
2019-09-24 21:52:20.064  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] o.a.c.h.Http11NioProtocol                 : Initializing ProtocolHandler ["http-nio
-8080"]
2019-09-24 21:52:20.078  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] o.a.c.h.Http11NioProtocol                 : Starting ProtocolHandler ["http-nio-808
0"]
2019-09-24 21:52:20.114  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] o.a.t.u.n.NioSelectorPool                 : Using a shared selector for servlet wri
te/read
2019-09-24 21:52:20.138  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http)
2019-09-24 21:52:20.141  INFO Danielles-MacBook-Air.local
                --- [ment.App.main()] c.p.i.App                                 : Started App in 7.979 seconds (JVM runni
ng for 12.698)
```

Untitled Request

POST ▾   http://localhost:8080/products   **Send** ▾   Save ▾

Params   Authorization   Headers (9)   Body ●   Pre-request Script   Tests   Cookies   Code   Comments (0)

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL ^BETA   JSON (application/json)

```
1 ▾ {
2       "name": "Soccer Ball",
3       "description": "sports",
4       "price": 10.00
5   }
```

Body   Cookies   Headers (4)   Test Results   Status: 201 Created   Time: 29ms   Size: 227 B   Save Response ▾

Pretty   Raw   Preview   JSON ▾   ⇥

```
1  {
2      "id": 2,
3      "name": "Soccer Ball",
4      "description": "sports",
5      "price": 10.0
6  }
```

| GET ▾ | http://localhost:8080/products/ | **Send** ▾ | Save ▾ |

Params | Authorization | Headers (8) | Body | Pre-request Script | Tests | Cookies | Code | Comments (0)

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL BETA

This request does not have a body

Body | Cookies | Headers (4) | Test Results   Status: 200 OK   Time: 212ms   Size: 276 B   Save Response ▾

Pretty | Raw | Preview   JSON ▾

```
 1  [
 2      {
 3          "id": 1,
 4          "name": null,
 5          "description": null,
 6          "price": 0.0
 7      },
 8      {
 9          "id": 2,
10          "name": "Soccer Ball",
11          "description": "sports",
12          "price": 10.0
13      }
14  ]
```

Postman

▪▪ My Workspace ▾   ⊕ Invite   ⌀   ✦   🔔   ♥   Sign

DEL http://192.1... ● | POST socialMedi... ● | DEL http://local... ● | + | •••   No Environment ▾   👁

| DELETE ▾ | http://localhost:8080/products/2 | **Send** ▾ | Save ▾ |

Params | Authorization | Headers (9) | Body | Pre-request Script | Tests | Cookies | Code | Comments (

● none   ○ form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL BETA

This request does not have a body

Body | Cookies | Headers (4) | Test Results   Status: 200 OK   Time: 32ms   Size: 182 B   Save Response

Pretty | Raw | Preview   Text ▾

```
 1  Successfully deleted product with id: 2
```

Postman

My Workspace ▾   Invite

No Environment ▾

DEL http://192.1...   POST socialMedi...   PUT http://local...   +   •••

PUT ▾   http://localhost:8080/products/1   **Send** ▾   Save

Params   Authorization   Headers (9)   Body ●   Pre-request Script   Tests   Cookies   Code   Comment

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL BETA   JSON (application/js

```
1    {
2        "id": 1,
3        "name": "Ballet Shoes",
4        "description": "Dance",
5        "price": 28.0
6    }
```

Body   Cookies   Headers (4)   Test Results   Status: 200 OK   Time: 37ms   Size: 221 B   Save Response

Pretty   Raw   Preview   JSON ▾

```
1    {
2        "id": 1,
3        "name": "Ballet Shoes",
4        "description": "Dance",
5        "price": 0.0
6    }
```

POST ▾   http://localhost:8080/customers   **Send** ▾   Save ▾

Params   Authorization   Headers (9)   Body ●   Pre-request Script   Tests   Cookies   Code   Comments (0

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL BETA   JSON (application/json)

```
1    {
2        "firstName": "Danielle",
3        "lastName": "Yokley"
4
5    }
```

Body   Cookies   Headers (4)   Test Results   Status: 201 Created   Time: 38ms   Size: 255 B   Save Response ▾

Pretty   Raw   Preview   JSON ▾

```
1    {
2        "id": 4,
3        "firstName": "Danielle",
4        "lastName": "Yokley",
5        "address": null,
6        "level": null,
7        "orders": null
8    }
```

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PUT http://localhost:8080/customers/4

Postman

My Workspace ▾   Invite   Sign In

DEL http://192.1...   POST socialMedi...   PUT http://local...   +   •••   No Environment   ▾   👁   ⚙

PUT   ▾   http://localhost:8080/customers/4   Send   ▾   Save   ▾

Params   Authorization   Headers (9)   Body ●   Pre-request Script   Tests   Cookies Code Comments (0)

⚪ none ⚪ form-data ⚪ x-www-form-urlencoded ⚫ raw ⚪ binary ⚪ GraphQL BETA   JSON (application/json) ▾

```
1 ▾ {
2      "firstName": "Danielle B.",
3      "lastName": "Yokley"
4  }
```

Body Cookies Headers (4) Test Results   Status: 200 OK Time: 55ms Size: 251 B   Save Response ▾

Pretty   Raw   Preview   JSON ▾   ⇛

```
1  {
2      "id": 4,
3      "firstName": "Danielle B.",
4      "lastName": "Yokley",
5      "address": null,
6      "level": null,
7      "orders": []
8  }
```

DELETE   ▾   http://localhost:8080/customers/4   Send   ▾   Save   ▾

Params   Authorization   Headers (9)   Body   Pre-request Script   Tests   Cookies Code Comments (0)

⚫ none ⚪ form-data ⚪ x-www-form-urlencoded ⚪ raw ⚪ binary ⚪ GraphQL BETA

This request does not have a body

Body Cookies Headers (4) Test Results   Status: 200 OK Time: 30ms Size: 183 B   Save Response ▾

Pretty   Raw   Preview   Text ▾   ⇛

```
1  Successfully deleted customer with id: 4
```