



## Web API Design with SpringBoot Week 1 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.

### URL to GitHub Repository:

<https://github.com/danielleyokley/socialMediaAPIHw>

Screenshots below:



# PROMINEO TECH

```
socialMediaApi — -bash — 93x30

-----
T E S T S
-----

Running com.promineotech.socialMediaApi.AppTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 sec - in com.promineotech.socialMediaApi.AppTest

Results :

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

[INFO]
[INFO] --- maven-jar-plugin:2.5:jar (default-jar) @ socialMediaApi ---
[INFO] Building jar: /Users/danielleyokley/eclipse-workspace/socialMediaApi/target/socialMediaApi-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ socialMediaApi ---
[INFO] Installing /Users/danielleyokley/eclipse-workspace/socialMediaApi/target/socialMediaApi-0.0.1-SNAPSHOT.jar to /Users/danielleyokley/.m2/repository/com/promineotech/socialMediaApi/0.0.1-SNAPSHOT/socialMediaApi-0.0.1-SNAPSHOT.jar
[INFO] Installing /Users/danielleyokley/eclipse-workspace/socialMediaApi/pom.xml to /Users/danielleyokley/.m2/repository/com/promineotech/socialMediaApi/0.0.1-SNAPSHOT/socialMediaApi-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 7.131 s
[INFO] Finished at: 2019-09-20T21:39:57-07:00
[INFO] -----
Danielles-MacBook-Air:socialMediaApi danielleyokley$
```



# PROMINEO TECH

```
bin — mysql -u root -p — 80x41
Last login: Fri Sep 20 17:37:30 on ttys000
Danielles-MacBook-Air:~ danielleyokley$ cd /usr/local/mysql/bin/; ls
ibd2sdi                               mysqlcheck
innochecksum                          mysqld
lz4_decompress                        mysqld-debug
my_print_defaults                     mysqld_multi
myisam_ftdump                         mysqld_safe
myisamchk                             mysqldump
myisamlog                             mysqldumpslow
myisampack                            mysqlimport
mysql                                 mysqlpump
mysql_config                          mysqlrouter
mysql_config_editor                  mysqlrouter_passwd
mysql_secure_installation             mysqlrouter_plugin_info
mysql_ssl_rsa_setup                  mysqlshow
mysql_tzinfo_to_sql                  mysqlslap
mysql_upgrade                         perror
mysqladmin                           zlib_decompress
mysqlbinlog

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 10
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 social_api;
ERROR 1007 (HY000): Can't create database 'social_api'; database exists
mysql> create database social_api_hw
-> ^C
mysql> create database social_api_hw;
Query OK, 1 row affected (0.02 sec)

mysql> 
```



# PROMINEO TECH

```
socialMediaApiHw -- java -classpath ~/Downloads/apache-maven-3.6.2/boot/plexus-classworlds-2.6.0.jar -Dclassworlds.conf=/.
.socialMediaApiHw.controller.PostController.updatePost(com.promineotech.socialMediaApiHw.entity.Post, java.lang.Long)
2019-09-20 23:14:32.765 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/{user
Id}/posts],methods=[POST]}" onto public org.springframework.http.ResponseEntity<java.lang.Object> com.promineotech.socialM
ediaApiHw.controller.PostController.createPost(com.promineotech.socialMediaApiHw.entity.Post, java.lang.Long)
2019-09-20 23:14:32.766 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/{user
id}/posts/{postId}/comments],methods=[POST]}" onto public org.springframework.http.ResponseEntity<java.lang.Object> com.pr
omineotech.socialMediaApiHw.controller.CommentController.createComment(com.promineotech.socialMediaApiHw.entity.Comment, ja
va.lang.Long, java.lang.Long)
2019-09-20 23:14:32.767 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/{user
id}/posts/{postId}/comments/{commentId}],methods=[DELETE]}" onto public org.springframework.http.ResponseEntity<java.lang.
Object> com.promineotech.socialMediaApiHw.controller.CommentController.deleteComment(java.lang.Long)
2019-09-20 23:14:32.773 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/regist
er],methods=[POST]}" onto public org.springframework.http.ResponseEntity<java.lang.Object> com.promineotech.socialMediaAp
iHw.controller.UserController.register(com.promineotech.socialMediaApiHw.entity.User)
2019-09-20 23:14:32.773 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/{id}/
follows/{followId}],methods=[POST]}" onto public org.springframework.http.ResponseEntity<java.lang.Object> com.promineotec
h.socialMediaApiHw.controller.UserController.follow(java.lang.Long, java.lang.Long)
2019-09-20 23:14:32.774 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/login
],methods=[POST]}" onto public org.springframework.http.ResponseEntity<java.lang.Object> com.promineotech.socialMediaApiHw
.controller.UserController.login(com.promineotech.socialMediaApiHw.entity.User)
2019-09-20 23:14:32.774 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/{id}/
follows]}" onto org.springframework.http.ResponseEntity<java.lang.Object> com.promineotech.socialMediaApiHw.controller.Use
rController.showFollowedUsers(java.lang.Long)
2019-09-20 23:14:32.775 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/users/{id}/
profilePicture],methods=[POST]}" onto public org.springframework.http.ResponseEntity<java.lang.Object> com.promineotech.so
cialMediaApiHw.controller.UserController.singleFileUploaded(java.lang.Long, org.springframework.web.multipart.MultipartFile
)
2019-09-20 23:14:32.778 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error]}" on
to public org.springframework.http.ResponseEntity<java.util.Map<java.lang.String, java.lang.Object>> org.springframework.b
oot.autoconfigure.web.BasicExceptionHandler.error(javax.servlet.http.HttpServletRequest)
2019-09-20 23:14:32.779 INFO 2024 --- [main] s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error],prod
uces=[text/html]}" onto public org.springframework.web.servlet.ModelAndView org.springframework.boot.autoconfigure.web.Bas
icExceptionHandler.errorHtml(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse)
2019-09-20 23:14:32.830 INFO 2024 --- [main] o.s.w.s.h.SimpleUrlHandlerMapping : Mapped URL path [/webj
ars/**] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2019-09-20 23:14:32.831 INFO 2024 --- [main] o.s.w.s.h.SimpleUrlHandlerMapping : Mapped URL path [/**]
onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2019-09-20 23:14:32.894 INFO 2024 --- [main] o.s.w.s.h.SimpleUrlHandlerMapping : Mapped URL path [/**/f
avicon.ico] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2019-09-20 23:14:33.161 INFO 2024 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Registering beans for
JMX exposure on startup
2019-09-20 23:14:33.279 INFO 2024 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port
(s): 8080 (http)
2019-09-20 23:14:33.286 INFO 2024 --- [main] c.p.s.App : Started App in 7.934 s
econds (JVM running for 12.622)
```



# PROMINEO TECH

My Workspace Invite

DEL http://192.168.0.15:808... POST socialMediaApiHw POST http://localhost:8080/... No Environment

POST http://localhost:8080/users/register Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Cookies Code Com

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

```
1 {
2   "username": "Danielle",
3   "password": "54321"
4 }
```

Body Cookies Headers (4) Test Results Status: 201 Created Time: 548ms Size: 217 B Save Resp

Pretty Raw Preview **JSON** ≡

```
1 {
2   "id": 1,
3   "username": "Danielle",
4   "profilePictureUrl": null
5 }
```

```
bin — mysql -u root -p — 88x30

[mysql> show databases;
+-----+
| Database |
+-----+
| employees |
| information_schema |
| mysql |
| performance_schema |
| pets |
| social_api |
| social_api_hw |
| sys |
| teams |
+-----+
9 rows in set (0.00 sec)

[mysql> use social_api_hw;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
[mysql> select * from user;
+-----+-----+-----+-----+
| id | password | profile_picture_url | username |
+-----+-----+-----+-----+
| 1 | 54321 | NULL | Danielle |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```



# PROMINEO TECH

My Workspace

Invite

Sign In

DEL http://192.16...

POST socialMedia...

POST http://localh...

+

...

No Environment

POST

http://localhost:8080/users/login

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 "username": "Danielle",

3 "password": "54321"

4 }

Body

Cookies

Headers (4)

Test Results

Status: 200 OK

Time: 666ms

Size: 212 B

Save Response

Pretty

Raw

Preview

JSON

1 {

2 "id": 1,

3 "username": "Danielle",

4 "profilePictureUrl": null

5 }





# PROMINEO TECH

My workspace Invite Sign In

DEL http://192.16... POST socialMedia... POST http://localh... + ... No Environment

POST http://localhost:8080/users/register 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 <sup>BETA</sup> JSON (application/json)

```
1 {  
2   "username": "Holly",  
3   "password": "12345"  
4 }
```

ody Cookies Headers (4) Test Results Status: 201 Created Time: 91ms Size: 214 B Save Response

Pretty Raw Preview JSON 🔍

```
1 {  
2   "id": 2,  
3   "username": "Holly",  
4   "profilePictureUrl": null  
5 }
```



# PROMINEO TECH

My workspace 24 invite Sign in

DEL http://192.16... POST socialMedia... POST http://localh... + ... No Environment

POST http://localhost:8080/users/1/follows/2 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

Body Cookies Headers (4) Test Results Status: 201 Created Time: 129ms Size: 230 B Save Response

Pretty Raw Preview JSON

```
1 {
2   "following": [
3     {
4       "id": 2,
5       "username": "Holly",
6       "profilePictureUrl": null
7     }
8   ]
9 }
```





# PROMINEO TECH

NewImportRunnerMy WorkspaceInvite

DEL http://192.168.0.15:8...POST socialMediaApiHwGET http://localhost:8080...

No Environment

GEThttp://localhost:8080/users/1/follows/

Send

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsCookies

noneform-datax-www-form-urlencodedrawbinaryGraphQL BETAJSON (application/json)

1

BodyCookiesHeaders (4)Test ResultsStatus: 201 CreatedTime: 45msSize: 230 B

PrettyRawPreviewJSON

```
1 {
2   "following": [
3     {
4       "id": 2,
5       "username": "Holly",
6       "profilePictureUrl": null
7     }
8   ]
9 }
```



# PROMINEO TECH

Postman

New Import Runner My Workspace Invite No Environment

DEL http://192.168.0.15:8... POST socialMediaApiHw POST http://localhost:808...

Untitled Request

POST http://localhost:8080/users/1/profilePicture 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

KEY	VALUE	DESCRIPTION	...	Bulk Ed
<input checked="" type="checkbox"/> file	babyboots.jpg X			
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 201 Created Time: 81ms Size: 239 B Save Response

Pretty Raw Preview JSON

```
1 {
2   "id": 1,
3   "username": "Danielle",
4   "profilePictureUrl": "./pictures/babyboots.jpg"
5 }
```



# PROMINEO TECH

DEL http://192.168.0.15:8080/us...

POST socialMediaApiHw

POST http://localhost:8080/users...

+

...

N

POST http://localhost:8080/users/1/posts

ParamsAuthorizationHeaders (9)BodyPre-request ScriptTests

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL BETA

JSON (application/json)

1 {

2 "content": "Have a beautiful day!"

3 }

BodyCookiesHeaders (4)Test Results

Status: 200 OK Ti

PrettyRawPreview

JSON

1 {

2 "id": 1,

3 "content": "Have a beautiful day!",

4 "date": 1569131532397,

5 "user": {

6 "id": 1,

7 "username": "Danielle",

8 "profilePictureUrl": "./pictures/babyboots.jpg"



# PROMINEO TECH

New Import Runner

My Workspace Invite

DEL http://192.168.0.15:8080/us...

POST socialMediaApiHw

GET http://localhost:8080/users/...

+

...

No Environment

Untitled Request

GET

http://localhost:8080/users/1/posts/1

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL BETA

JSON (application/json)

1 {

2 "content": "Have a beautiful day!"

3 }

body

Cookies

Headers (4)

Test Results

Status: 200 OK

Time: 44ms

Size: 319 B

Pretty

Raw

Preview

JSON

1 {

2 "id": 1,

3 "content": "Have a beautiful day!",

4 "date": 1569131532000,

5 "user": {

6 "id": 1,

7 "username": "Danielle",

8 "profilePictureUrl": "./pictures/babyboots.jpg"

9 },

10 "comments": []

11 }



# PROMINEO TECH

Postman

New Import Runner My Workspace Invite

DEL http://192.168.0.15:8080/us... POST socialMediaApiHw PUT http://localhost:8080/users/... No Environment

Untitled Request

PUT http://localhost:8080/users/1/posts/1 Send

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

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

```
1 {
2   "content": "Have a beautiful day! PS: Spread kindness."
3 }
```

Body Cookies Headers (4) Test Results Status: 200 OK Time: 56ms Size: 340

Pretty Raw Preview JSON

```
1 {
2   "id": 1,
3   "content": "Have a beautiful day! PS: Spread kindness.",
4   "date": 1569131532000,
5   "user": {
6     "id": 1,
7     "username": "Danielle",
8     "profilePictureUrl": "./pictures/babyboots.jpg"
9   },
10  "comments": []
11 }
```



# PROMINEO TECH

Postman

New Import Runner My Workspace Invite

DEL http://192.168.0.15:8080/us... POST socialMediaApiHw GET http://localhost:8080/users/... No Environment

Untitled Request

GET http://localhost:8080/users/1/posts/ Send

Params Authorization Headers (8) Body Pre-request Script Tests Cookies

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

1

Body Cookies Headers (4) Test Results Status: 200 OK Time: 31ms Size: 342 B

Pretty Raw Preview JSON

```
1 [
2   {
3     "id": 1,
4     "content": "Have a beautiful day! PS: Spread kindness.",
5     "date": 1569131532000,
6     "user": {
7       "id": 1,
8       "username": "Danielle",
9       "profilePictureUrl": "./pictures/babyboots.jpg"
10    },
11    "comments": []
12  }
13 ]
```