



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.

Screenshots of Code:

Screenshots of Running Application:

```
2020-08-29 16:18:29.026 INFO 17900 --- [Api.App.main()] s.w.s.m.a.RequestMappingHandlerMapping : Mapped "([{users/{id}/profilePicture},methods={POST}]" onto public org.springframework.web.servlet.mvc.annotation.annotation.AnnotationMethodHandlerAdapter
2020-08-29 16:18:29.048 INFO 17900 --- [Api.App.main()] s.w.s.m.a.RequestMappingHandlerMapping : Mapped "([{error}]" onto public org.springframework.web.servlet.mvc.annotation.annotation.AnnotationMethodHandlerAdapter
2020-08-29 16:18:29.051 INFO 17900 --- [Api.App.main()] s.w.s.m.a.RequestMappingHandlerMapping : Mapped "([{error}],produces={text/html}]" onto public org.springframework.web.servlet.mvc.annotation.annotation.AnnotationMethodHandlerAdapter
2020-08-29 16:18:29.164 INFO 17900 --- [Api.App.main()] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2020-08-29 16:18:29.167 INFO 17900 --- [Api.App.main()] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2020-08-29 16:18:29.308 INFO 17900 --- [Api.App.main()] o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto handler of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2020-08-29 16:18:29.778 INFO 17900 --- [Api.App.main()] o.s.j.e.a.AnnotationBeanExporter : Registering beans for JMX exposure on startup
2020-08-29 16:18:30.069 INFO 17900 --- [Api.App.main()] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http)
2020-08-29 16:18:30.069 INFO 17900 --- [Api.App.main()] com.promineotech.socialMediaApi.App : Started App in 29.384 seconds (JVM running for 51.112)
```



PROMINEO TECH

POST

http://localhost:8080/users/register

Send

Save

ParamsAuthHeaders (8)BodyPre-reqTestsSettingsCookiesCode

rawJSONBeautify

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

Body201 Created902 ms212 BSave Response

PrettyRawPreviewVisualizeJSON

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



PROMINEO TECH

POST

http://localhost:8080/users/login

Send

Save

ParamsAuthHeaders (8)BodyPre-req. Tests SettingsCookies

rawJSON

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

Body200 OK1293 ms207 BSave Response

PrettyRawPreviewVisualizeJSON

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



PROMINEO TECH

POST

http://localhost:8080/users/register

Send

Save

ParamsAuthHeaders (8)BodyPre-reqTestsSettingsCookiesCoi

rawJSONBeautify

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

Body201 Created3.13 s214 BSave Response

PrettyRawPreviewVisualizeJSON

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



PROMINEO TECH

POST

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

Send

Save

ParamsAuthHeaders (7)BodyPre-req. TestsSettingsCookies

rawJSONBeaut

1

Body201 Created2.01 s230 BSave Response

PrettyRawPreviewVisualizeJSON

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



PROMINEO TECH

GET ▼ http://localhost:8080/users/1/follows Send ▼ Save

Params Auth Headers (6) Body Pre-req. Tests Settings Cookies

Query Params

	KEY	VALUE	DESCRIPTION	***	Bul
	Key	Value	Description		

Body ▼ 201 Created 119 ms 230 B Save Respor

Pretty Raw Preview Visualize

JSON ▼



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



PROMINEO TECH

POST ▼ http://localhost:8080/users/1/profilePicture Send ▼ Save

Params Auth Headers (8) **Body** ● Pre-req. Tests Settings Cookies

form-data ▼

	KEY	VALUE	DESCRIPTION	***	⋮
<input checked="" type="checkbox"/>	file	20160209_052300.jpg ✕			
	Key	Value	Description		

Body ▼ 🌐 201 Created 1172 ms 240 B Save Resp

Pretty Raw Preview Visualize JSON ▼ ≡

```
1 {
2   "id": 1,
3   "username": "Tim",
4   "profilePictureUrl": "./pictures/20160209_052300.jpg"
5 }
```



PROMINEO TECH

POST

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

Send

Params Auth Headers (8) **Body** Pre-req. Tests Settings

raw JSON

```
1 {
2   "content": "Hey everyone, this is my first post!"
3 }
```

Body 200 OK 503 ms 337 B Save

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 1,
3   "content": "Hey everyone, this is my first post!",
4   "date": 1598735296059,
5   "user": {
6     "id": 1,
7     "username": "Tim",
8     "profilePictureUrl": "./pictures/20160209_052300.jpg"
9   },
10  "comments": null
11 }
```




PROMINEO TECH

GET

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

Send

Save

ParamsAuthHeaders (8)BodyPre-reqTestsSettingsCookies

rawJSONBeau

```
1 {
2   "content": "Hey everyone, this is my first post!"
3 }
```

Body200 OK2.86 s337 BSave Response

PrettyRawPreviewVisualizeJSON

```
1 [
2   {
3     "id": 1,
4     "content": "Hey everyone, this is my first post!",
5     "date": 1598735296000,
6     "user": {
7       "id": 1,
8       "username": "Tim",
9       "profilePictureUrl": "/pictures/20160209_052300.jpg"
10    },
11    "comments": []
12  }
13 ]
```



PROMINEO TECH

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

Params Auth Headers (8) **Body** ● Pre-req. Tests Settings

raw ▼ JSON ▼

```
1 {  
2   "content": "Hey everyone, this is my first post!"  
3 }
```

Body ▼ 200 OK 644 ms 335 B

Pretty Raw Preview Visualize JSON ▼

```
1 {  
2   "id": 1,  
3   "content": "Hey everyone, this is my first post!",  
4   "date": 1598735296000,  
5   "user": {  
6     "id": 1,  
7     "username": "Tim",  
8     "profilePictureUrl": "./pictures/20160209_052300.jpg"  
9   },  
10  "comments": []  
11 }
```



PROMINEO TECH

PUT

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

Send

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {
2   "content": "I am updating this post now!"
3 }
```

Body 200 OK 820 ms 327 B Save

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 1,
3   "content": "I am updating this post now!",
4   "date": 1598735296000,
5   "user": {
6     "id": 1,
7     "username": "Tim",
8     "profilePictureUrl": "../pictures/20160209_052300.jpg"
9   },
10  "comments": []
11 }
```



PROMINEO TECH

Unsaved Request BUILD

POST ▼ http://localhost:8080/users/2/posts/1/comments Send ▼ S

Params Auth Headers (8) Body ● Pre-req. Tests Settings Cor

raw ▼ JSON ▼

```
1 {  
2   "content": "Commenting on this post"  
3 }
```

body ▼ 200 OK 2.47 s 282 B Save R

Pretty Raw Preview Visualize JSON ▼ ≡

```
1 {  
2   "id": 1,  
3   "content": "Commenting on this post",  
4   "date": 1598736327136,  
5   "user": {  
6     "id": 2,  
7     "username": "Sally",  
8     "profilePictureUrl": null  
9   }  
10 }
```



PROMINEO TECH

Send Request

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

Send Save

Params Auth Headers (6) Body Pre-req. Tests Settings

raw JSON

1

Body

200 OK 1404 ms 454 B Save Response

Pretty Raw Preview Visualize

JSON

```
1 {
2   {
3     "id": 1,
4     "content": "I am updating this post now!",
5     "date": 1598735296000,
6     "user": {
7       "id": 1,
8       "username": "Tim",
9       "profilePictureUrl": "/pictures/20160209_052300.jpg"
10    },
11    "comments": [
12      {
13        "id": 1,
14        "content": "Commenting on this post",
15        "date": 1598673600000,
16        "user": {
17          "id": 2,
18          "username": "Sally",
19          "profilePictureUrl": null
20        }
21      }
22    ]
23  }
24 }
```



PROMINEO TECH

DELETE

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

Send

ParamsAuthHeaders (6)BodyPre-req. Tests Settings

rawJSON

1

Body200 OK1934 ms168 BSave R

PrettyRawPreviewVisualizeText

1Deleted comment with id:1



PROMINEO TECH

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

Params Auth Headers (6) Body Pre-req. Tests Settings

raw ▼ JSON ▼

1

Body ▼ 🌐 200 OK 254 ms 327 B Sav

Pretty Raw Preview Visualize JSON ▼ ≡

```
1 {
2   "id": 1,
3   "content": "I am updating this post now!",
4   "date": 1598735296000,
5   "user": {
6     "id": 1,
7     "username": "Tim",
8     "profilePictureUrl": "./pictures/20160209_052300.jpg"
9   },
10  "comments": []
11 }
```

URL to GitHub Repository:

<https://github.com/jefflhaupt/socialMediaApi>