#### **Project Usage Guide**

#### **Overview**

 This project was developed using Spring Boot Rest API, Java 8 using Maven build tool.

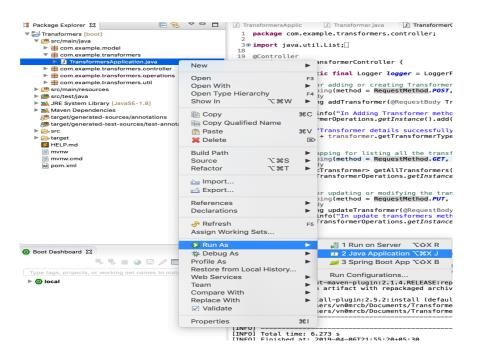
### Steps to build and start the application

- 1. Import the provided source code in Eclipse STS as a Maven Project.
- 2. After importing the project, right click on the project and select:

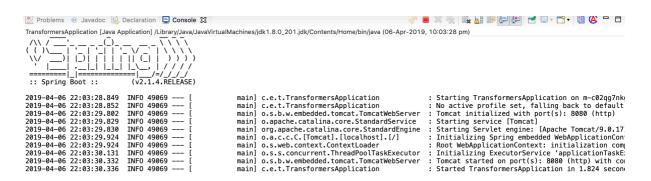
Run As -> Maven install

3. The build should be successful as shown below:

4. Next, right click on TransformersApplication ->Run As ->Java Application.



5. You should see the application started successfully as shown below:



## **Invoking API's**

#### \*\*Screenshots from POSTMAN client

#### 1. Create Transformer:

 Select POST method and hit the following URL with the following request body:

http://localhost:8080/create-transformer

```
Request body:
         "transformerName": "Ironhide",
         "transformerType": "A",
         "strength": 6,
         "intelligence": 2,
         "speed": 3,
         "endurance": 1,
         "rank": 3,
         "courage": 1,
         "firepower": 5,
         "skill": 6
}
                 http://localhost:8080/list-transformers
               Headers Body Pre-request Script
                                         No Auth
   Type
         Cookies Headers (3) Test Results
 Body
           Raw Preview JSON ✓ ➡
                                                                                                                                                            1 Q
                "transformerId": "6ff46aca-d090-4841-8bdc-408c7a2544dc",
"transformerName": "Ironhide",
"transformerType": 'A',
"strength': 6,
"intelligence": 2,
"speed": 3,
"endurance": 1,
"rank": 3,
"courage": 1,
"firepower": 5,
"skill": 6
```

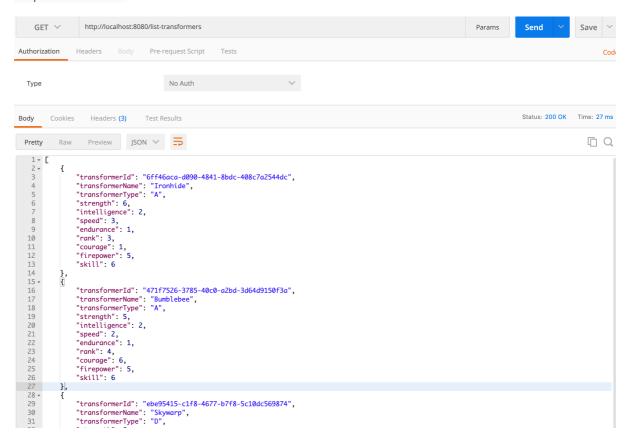
 In this way, for this project purpose, I have added 3 more sample transformer Id's by invoking create transformer API.

#### 2. List Transformers

1. Select GET method and hit the following API in POSTMAN client:

http://localhost:8080/list-transformers

Output shown below:

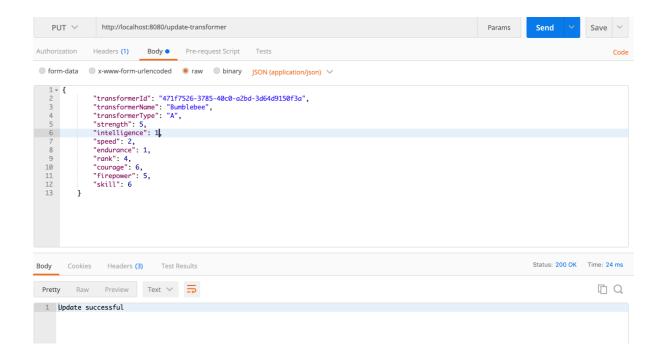


## 3. Update Transformer

Select any existing Transformer ID, change any attributes and hit the following PUT request:

http://localhost:8080/update-transformer

Sample output shown below:



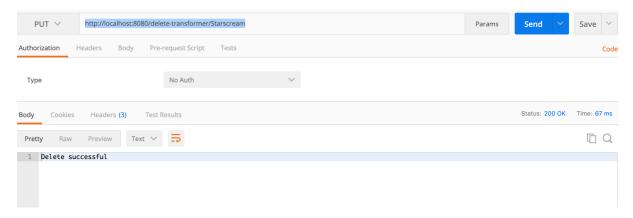
### 4. Delete Transformer:

Hit the following delete API: (Replace transformerName with any existing Transformer Name)

http://localhost:8080/delete-transformer/{transformerName}

For example:

http://localhost:8080/delete-transformer/Starscream



## 5. Decide the winner API

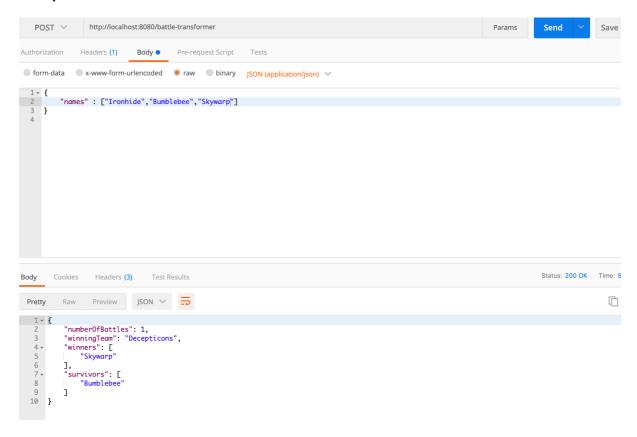
Hit the following API as POST request with the following request body:

http://localhost:8080/battle-transformer

### Request Body:

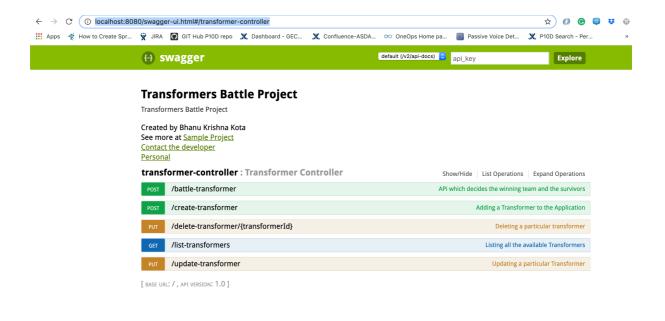
```
{
    "names" : ["Ironhide","Bumblebee","Skywarp"]
}
```

## Output:



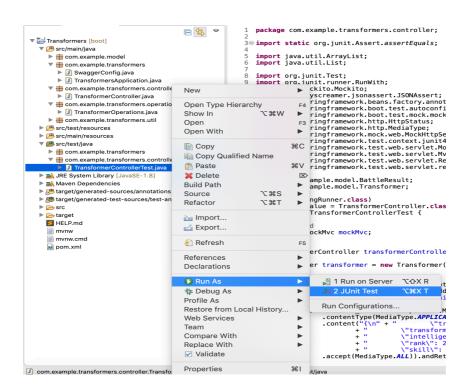
# **Swagger API documentation:**

http://localhost:8080/swagger-ui.html#/transformer-controller



### **Junit Tests:**

#### Here are the Junit Tests:



#### Output:

