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SE 457
HW 4
6/2/2020

HW 4 Output

- 1) REST Service is started with the 'mvn exec:java' command after 'mvn install':

```
$ mvn exec:java
[INFO] Scanning for projects...
[INFO]
[INFO] -----< HW4:QuoteREST >-----
[INFO] Building QuoteREST Maven Webapp 1.0-SNAPSHOT
[INFO] -----[ war ]-----
[INFO]
[INFO] >>> exec-maven-plugin:1.2.1:java (default-cli) > validate @ QuoteREST >>>
[INFO]
[INFO] <<< exec-maven-plugin:1.2.1:java (default-cli) < validate @ QuoteREST <<<
[INFO]
[INFO] --- exec-maven-plugin:1.2.1:java (default-cli) @ QuoteREST ---
Jun 02, 2020 11:45:08 AM org.apache.cxf.endpoint.ServerImpl initDestination
INFO: Setting the server's publish address to be http://localhost:8888/
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
```

- 2) REST Service is preloaded with 5 quotes so we can use GET HTTP request to retrieve a Quote Object via its id:

```
$ curl -i 'http://localhost:8888/quotes/v1/get/1'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 105 100 105 0 0 105 0 0:00:01 0:00:01 --:--:-- 89HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 18:48:12 GMT
Content-Type: application/octet-stream
Content-Length: 105
Server: Jetty(9.4.6.v20170531)

{"QuoteObject":{"id":1,"quote":"Life is what happens when you're busy making other plans. -John Lennon"}}
```

- 3) Can retrieve all quotes as well with GET HTTP request and different URI:

```
$ curl -i 'http://localhost:8888/quotes/v1/getAll'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100  601  100  601    0     0    601      0  0:00:01 --:--:--  0:00:01 2744 HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 18:49:21 GMT
Content-Type: application/octet-stream
Content-Length: 601
Server: Jetty(9.4.6.v20170531)

{"QuoteObject":{"id":1,"quote":"Life is what happens when you're busy making other plans. -John Lennon"}}
{"QuoteObject":{"id":2,"quote":"Those who dare to fail miserably can achieve greatly. -John F. Kennedy"}}
{"QuoteObject":{"id":3,"quote":"Let us always meet each other with a smile, for the smile is the beginning of love. -Mother Theresa"}}
{"QuoteObject":{"id":4,"quote":"It's our choices, that show what we truly are, far more than our abilities. -J.K. Rowling"}}
{"QuoteObject":{"id":5,"quote":"If you want to live a happy life, tie it to a goal, not to people or things. -Albert Einstein"}}
```

- 4) Can optionally use index pagination to set a specific range for getting all quotes via the `?page` and `?per_page` query-string parameters (for example having `page=2` and have `per_page=2`, the client should only see Quote Objects with id 3 and 4):

```
$ curl -i 'http://localhost:8888/quotes/v1/getAll?page=2&per_page=2'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100  260  100  260    0     0    260      0  0:00:01 --:--:--  0:00:01 1187 HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 18:52:54 GMT
Content-Type: application/octet-stream
Content-Length: 260
Server: Jetty(9.4.6.v20170531)

{"QuoteObject":{"id":3,"quote":"Let us always meet each other with a smile, for the smile is the beginning of love. -Mother Theresa"}}
{"QuoteObject":{"id":4,"quote":"It's our choices, that show what we truly are, far more than our abilities. -J.K. Rowling"}}
```

- 5) Can add new Quotes to the list via POST HTTP Request and with a specific add URI with the new quote you want to add to the list:

```
$ curl -i -X POST 'http://localhost:8888/quotes/v1/add/newly%20added%20quote'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100   86  100   86    0     0    86      0  0:00:01 --:--:--  0:00:01 392 HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 18:58:50 GMT
Content-Type: application/octet-stream
Content-Length: 86
Server: Jetty(9.4.6.v20170531)

Successfully added Quote Object:
{"QuoteObject":{"id":6,"quote":"newly added quote"}}
```

- 6) Update a current quote in the list with a PUT HTTP request and specifying the id you want to change and the new quote:

```
$ curl -i -X PUT 'http://localhost:8888/quotes/v1/update/6/update%20quote%206'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100    85    0    85    0    0    0    0  --:--:--  1:11:35 --:--:-- 389HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 19:02:32 GMT
Content-Type: application/octet-stream
Content-Length: 85
Server: Jetty(9.4.6.v20170531)

Quote Object Successfully Updated:
{"QuoteObject":{"id":6,"quote":"update quote 6"}}
```

If we look at the list again we can see our change was added to the list:

```
$ curl -i 'http://localhost:8888/quotes/v1/getAll'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100   651   100   651    0    0   651    0  0:00:01 --:--:--  0:00:01 2604HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 19:03:53 GMT
Content-Type: application/octet-stream
Content-Length: 651
Server: Jetty(9.4.6.v20170531)

{"QuoteObject":{"id":1,"quote":"Life is what happens when you're busy making other plans. -John Lennon"}}
{"QuoteObject":{"id":2,"quote":"Those who dare to fail miserably can achieve greatly. -John F. Kennedy"}}
{"QuoteObject":{"id":3,"quote":"Let us always meet each other with a smile, for the smile is the beginning of love. -Mother Theresa"}}
{"QuoteObject":{"id":4,"quote":"It's our choices, that show what we truly are, far more than our abilities. -J.K. Rowling"}}
{"QuoteObject":{"id":5,"quote":"If you want to live a happy life, tie it to a goal, not to people or things. -Albert Einstein"}}
{"QuoteObject":{"id":6,"quote":"update quote 6"}}
```

7) Can delete specific quote object via its id with DELETE HTTP request:

```
$ curl -i -X DELETE 'http://localhost:8888/quotes/v1/delete/6'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100    35   100    35    0    0    35    0  0:00:01 --:--:--  0:00:01 159HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 19:05:03 GMT
Content-Type: application/octet-stream
Content-Length: 35
Server: Jetty(9.4.6.v20170531)

Quote Object 6 successfully deleted
```

If we try and retrieve the deleted quote object we will get a Response saying that the quote doesn't exist:

```
$ curl -i 'http://localhost:8888/quotes/v1/get/6'
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100    26   100    26    0    0    26    0  0:00:01 --:--:--  0:00:01 128HTTP/1.1 200 OK
Date: Tue, 02 Jun 2020 19:05:58 GMT
Content-Type: application/octet-stream
Content-Length: 26
Server: Jetty(9.4.6.v20170531)

Quote Object 6 not in list
```