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ITMD 566 Service-Oriented Architectures

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Messenger Service

2-26-19

Follow the Javabrain.io JAX-RS course till 2.11 and complete message services (POST, UPDATE, DELETE) . Please use the environment you created in the previous assignment.

Create at least 3 messages and update / delete them on POSTMAN client or other REST client. Please take screenshots to display the process. (The screenshots must include URL, request type, response code, response result) All outputs must be JSON format. Please combine all the screenshots in MS Word or PDF format and submit - 100 points

The screenshot displays a REST client interface with the following details:

- URL:** localhost:8080/deborah/webapi/messages/
- Method:** POST
- Body:** A JSON object with the following structure:

```
1 {  
2   "author": "deborah",  
3   "created": "2019-02-23T19:10:24.518-06:00",  
4   "message": "I'm graduating this semester"  
5 }
```
- Response:** Status 201 Created, Time: 27 ms, Size: 294 B. The response body is a JSON object:

```
1 {  
2   "author": "deborah",  
3   "created": "2019-02-23T19:10:24.518-06:00",  
4   "id": 5,  
5   "links": [],  
6   "message": "I'm graduating this semester"  
7 }
```

localhost:8080/deborah/webapi/messages/

POST localhost:8080/deborah/webapi/messages/ Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code Comments

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

```
1 {
2   "author": "deborah",
3   "created": "2019-02-21T19:10:24.518-06:00",
4   "message": "This is neat"
5 }
```

Body Cookies Headers (4) Test Results Status: 201 Created Time: 40 ms Size: 278 B Download

Pretty Raw Preview JSON

```
1 {
2   "author": "deborah",
3   "created": "2019-02-21T19:10:24.518-06:00",
4   "id": 6,
5   "links": [],
6   "message": "This is neat"
7 }
```

localhost:8080/deborah/webapi/messages/

POST localhost:8080/deborah/webapi/messages/ Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code Comments

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

```
1 {
2   "author": "deborah",
3   "created": "2019-02-14T19:10:24.518-06:00",
4   "message": "Today is Valentine's Day"
5 }
```

Body Cookies Headers (4) Test Results Status: 201 Created Time: 32 ms Size: 290 B Download

Pretty Raw Preview JSON

```
1 {
2   "author": "deborah",
3   "created": "2019-02-14T19:10:24.518-06:00",
4   "id": 7,
5   "links": [],
6   "message": "Today is Valentine's Day"
7 }
```

GETlocalhost:8080/deborah/webapi/messages/

SendSave

BodyCookiesHeaders (3)Test ResultsStatus: 200 OKTime: 179 msSize: 833 BDownload

PrettyRawPreviewJSON

```
1  [
2    {
3      "author": "deborah",
4      "created": "2019-02-26T19:18:03.041-06:00",
5      "id": 1,
6      "links": [],
7      "message": "Hello World"
8    },
9    {
10     "author": "deborah",
11     "created": "2019-02-26T19:18:03.041-06:00",
12     "id": 2,
13     "links": [],
14     "message": "Hello Jersey"
15   },
16   {
17     "author": "deborah",
18     "id": 3,
19     "links": [],
20     "message": "Hello World"
21   },
22   {
23     "author": "deborah",
24     "created": "2019-02-25T19:10:24.518-06:00",
25     "id": 4,
26     "links": [],
27     "message": "Hello IIT"
28   },
29   {
30     "author": "deborah",
31     "created": "2019-02-23T19:10:24.518-06:00",
32     "id": 5,
33     "links": [],
34     "message": "I'm graduating this semester"
```

GETlocalhost:8080/deborah/webapi/messages/

SendSave

PrettyRawPreviewJSON

```
15  },
16  {
17    "author": "deborah",
18    "id": 3,
19    "links": [],
20    "message": "Hello World"
21  },
22  {
23    "author": "deborah",
24    "created": "2019-02-25T19:10:24.518-06:00",
25    "id": 4,
26    "links": [],
27    "message": "Hello IIT"
28  },
29  {
30    "author": "deborah",
31    "created": "2019-02-23T19:10:24.518-06:00",
32    "id": 5,
33    "links": [],
34    "message": "I'm graduating this semester"
35  },
36  {
37    "author": "deborah",
38    "created": "2019-02-21T19:10:24.518-06:00",
39    "id": 6,
40    "links": [],
41    "message": "This is neat"
42  },
43  {
44    "author": "deborah",
45    "created": "2019-02-14T19:10:24.518-06:00",
46    "id": 7,
47    "links": [],
48    "message": "Today is Valentine's Day"
49  }
50 ]
```

localhost:8080/deborah/webapi/messages/3


PUT localhost:8080/deborah/webapi/messages/3 Send Save

Params Authorization Headers (1) **Body** Pre-request Script Tests Cookies Code Comments

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

```
1 {
2   "author": "deborah",
3   "created": "2019-02-14T19:10:24.518-06:00",
4   "links": [],
5   "message": "Tomorrow is the career fair"
6 }
```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 35 ms Size: 229 B Download

Pretty Raw Preview JSON 

```
1 {
2   "author": "deborah",
3   "created": "2019-02-14T19:10:24.518-06:00",
4   "id": 3,
5   "links": [],
6   "message": "Tomorrow is the career fair"
7 }
```

localhost:8080/deborah/webapi/messages/4


PUT localhost:8080/deborah/webapi/messages/4 Send Save

Params Authorization Headers (1) **Body** Pre-request Script Tests Cookies Code Comments

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

```
1 {
2   "author": "deborah",
3   "created": "2019-02-25T19:10:24.518-06:00",
4   "links": [],
5   "message": "Hello Illinois Tech! Go Scarlet Hawks!"
6 }
```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 29 ms Size: 240 B Download

Pretty Raw Preview JSON 

```
1 {
2   "author": "deborah",
3   "created": "2019-02-25T19:10:24.518-06:00",
4   "id": 4,
5   "links": [],
6   "message": "Hello Illinois Tech! Go Scarlet Hawks!"
7 }
```

localhost:8080/deborah/webapi/messages/5

PUT localhost:8080/deborah/webapi/messages/5 Send Save

Params Authorization Headers (1) **Body** Pre-request Script Tests Cookies Code Comments

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

```
1 {
2   "author": "deborah",
3   "created": "2019-02-23T19:10:24.518-06:00",
4   "links": [],
5   "message": "Hello ITMD 566! I'm enjoying this class!"
6 }
```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 17 ms Size: 242 B Download

Pretty Raw Preview JSON ⌵

```
1 {
2   "author": "deborah",
3   "created": "2019-02-23T19:10:24.518-06:00",
4   "id": 5,
5   "links": [],
6   "message": "Hello ITMD 566! I'm enjoying this class!"
7 }
```

GET localhost:8080/deborah/webapi/messages/ Send Save

Body Cookies Headers (3) Test Results Status: 200 OK Time: 24 ms Size: 932 B Download

Pretty Raw Preview JSON ⌵

```
16 {
17   "author": "deborah",
18   "created": "2019-02-14T19:10:24.518-06:00",
19   "id": 3,
20   "links": [],
21   "message": "Tomorrow is the career fair"
22 },
23 {
24   "author": "deborah",
25   "created": "2019-02-25T19:10:24.518-06:00",
26   "id": 4,
27   "links": [],
28   "message": "Hello Illinois Tech! Go Scarlet Hawks!"
29 },
30 {
31   "author": "deborah",
32   "created": "2019-02-23T19:10:24.518-06:00",
33   "id": 5,
34   "links": [],
35   "message": "Hello ITMD 566! I'm enjoying this class!"
36 },
37 {
38   "author": "deborah"
```

localhost:8080/deborah/webapi/messages/4

DELETE localhost:8080/deborah/webapi/messages/4 Send Save

Params Authorization Headers (1) **Body** Pre-request Script Tests Cookies Code Comments

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

```
1
```

Body Cookies Headers (1) Test Results Status: 204 No Content Time: 16 ms Size: 64 B

Pretty Raw Preview Auto ⌵

```
1
```

localhost:8080/deborah/webapi/messages/6

DELETE

localhost:8080/deborah/webapi/messages/6

Send

Save

Params Authorization Headers (1) **Body** Pre-request Script Tests

Cookies Code Comments

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

Beautify

1

Body Cookies Headers (1) Test Results

Status: 204 No Content Time: 17 ms Size: 64 B

Pretty

Raw

Preview

Auto



1

localhost:8080/deborah/webapi/messages/

GET

localhost:8080/deborah/webapi/messages/

Send

Save

Params Authorization Headers (1) **Body** Pre-request Script Tests

Cookies Code Comments

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

Beautify

1

Body Cookies Headers (3) Test Results

Status: 200 OK Time: 13 ms Size: 694 B

Download

Pretty

Raw

Preview

JSON



1

```
[
  {
    "author": "deborah",
    "created": "2019-02-26T19:51:53.177-06:00",
    "id": 1,
    "links": [],
    "message": "Hello World"
  },
  {
    "author": "deborah",
    "created": "2019-02-26T19:51:53.177-06:00",
    "id": 2,
    "links": [],
    "message": "Hello World"
  }
]
```

GETlocalhost:8080/deborah/webapi/messages/

SendSave

PrettyRawPreviewJSON

237

```
{
  "author": "deborah",
  "created": "2019-02-26T19:51:53.177-06:00",
  "id": 1,
  "links": [],
  "message": "Hello World"
},
{
  "author": "deborah",
  "created": "2019-02-26T19:51:53.177-06:00",
  "id": 2,
  "links": [],
  "message": "Hello Jersey"
},
{
  "author": "deborah",
  "created": "2019-02-14T19:10:24.518-06:00",
  "id": 3,
  "links": [],
  "message": "Tomorrow is the career fair"
},
{
  "author": "deborah",
  "created": "2019-02-23T19:10:24.518-06:00",
  "id": 5,
  "links": [],
  "message": "Hello ITMD 566! I'm enjoying this class!"
},
{
  "author": "deborah",
  "created": "2019-02-14T19:10:24.518-06:00",
  "id": 7,
  "links": [],
  "message": "Today is Valentine's Day"
}
]
```