

Preethi Sethu Ragunathan

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Profile- Comment-HATOES

1. Create ProfileService and perform CRUD operations using POSTMan client.

Profile Service created- hardcoded profile- profilename= preethisethu

Using Post, created 3 profiles

Profile#1

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

- Client:** chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html
- Auth:** Normal (selected), Basic Auth, Digest Auth, OAuth 1.0, No environment
- URL:** http://localhost:8181/messenger/webapi/profiles/preethisethu
- Method:** GET
- Buttons:** Send, Preview, Add to collection
- Body:** Headers (4), STATUS 200 OK, TIME 207 ms
- Response Format:** Pretty (selected), Raw, Preview, JSON, XML
- Response Body:**

```
1 {  
2   "firstName": "Preethi",  
3   "id": 1,  
4   "lastName": "Sethu Ragunathan",  
5   "profileName": "preethisethu"  
6 }
```

ent | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/ POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "firstName": "Admin",
3   "lastName": "User",
4   "profileName": "admin"
5 }
6
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 266 ms

Pretty Raw Preview JSON XML

```
1 {
2   "firstName": "Admin",
3   "id": 2,
4   "lastName": "User",
5   "profileName": "admin"
6 }
```

#profile2

ent | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/ POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "firstName": "Admin2",
3   "lastName": "User2",
4   "profileName": "admin2"
5 }
6 }
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 49 ms

Pretty Raw Preview JSON XML

```
1 {
2   "firstName": "Admin2",
3   "id": 3,
4   "lastName": "User2",
5   "profileName": "admin2"
6 }
```

#profile3

ent | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/ POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "firstName": "Admin3",
3
4   "lastName": "User3",
5   "profileName": "admin3"
6 }
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 40 ms

Pretty Raw Preview JSON XML

```
1 {
2   "firstName": "Admin3",
3   "id": 4,
4   "lastName": "User3",
5   "profileName": "admin3"
6 }
```

Getting all posted profiles

chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/ GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 17 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "firstName": "Preethi",
4     "id": 1,
5     "lastName": "Sethu Ragunathan",
6     "profileName": "preethisethu"
7   },
8   {
9     "firstName": "Admin",
10    "id": 2,
11    "lastName": "User",
12    "profileName": "admin"
13  },
14  {
15    "firstName": "Admin2",
16    "id": 3,
17    "lastName": "User2",
18    "profileName": "admin2"
19  },
20  {
21    "firstName": "Admin3",
22    "id": 4,
23    "lastName": "User3",
24    "profileName": "admin3"
25  }
26 ]
```

Using PUT to update profile #2

profielname- admin2

nt | chrome-extension://coohjcphdfgbiolnekdpbcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/admin2 GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 14 ms

Pretty Raw Preview JSON XML

```
1 {
2   "firstName": "Admin2",
3   "id": 3,
4   "lastName": "User2",
5   "profileName": "admin2"
6 }
```

Updating profile 2

lient | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/admin2 PUT

form-data x-www-form-urlencoded raw JSON

```
1 {  
2   "firstName": "Admin2 New",  
3   "id": 4,  
4   "lastName": "User2 New"  
5 }
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 35 ms

Pretty Raw Preview JSON XML

```
1 {  
2   "firstName": "Admin2 New",  
3   "id": 4,  
4   "lastName": "User2 New",  
5   "profileName": "admin2"  
6 }
```

PUT WORKS

Profile updated

Client | chrome-extension://coohjcphdfigbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/ GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 36 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "firstName": "Preethi",
4     "id": 1,
5     "lastName": "Sethu Ragunathan",
6     "profileName": "preethisethu"
7   },
8   {
9     "firstName": "Admin",
10    "id": 2,
11    "lastName": "User",
12    "profileName": "admin"
13  },
14  {
15    "firstName": "Admin2 New",
16    "id": 4,
17    "lastName": "User2 New",
18    "profileName": "admin2"
19  },
20  {
21    "firstName": "Admin3",
22    "id": 4,
23    "lastName": "User3",
24    "profileName": "admin3"
25  }
26 ]
```

DELETING profile2

chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/admin2 DELETE

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "firstName": "Admin2 New",
3   "id": 4,
4   "lastName": "User2 New"
5 }
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 29 ms

Pretty Raw Preview JSON XML

```
1 {
2   "firstName": "Admin2 New",
3   "id": 4,
4   "lastName": "User2 New",
5   "profileName": "admin2"
6 }
```

Profile2 deleted

ent | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/admin2 DELETE

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "firstName": "Admin2 New",
3   "id": 4,
4   "lastName": "User2 New"
5 }
```

Send Preview Add to collection

Body Headers (2) STATUS 204 No Content TIME 15 ms

Pretty Raw Preview JSON XML

1

Getting all profiles after delete

chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/profiles/ GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 68 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "firstName": "Preethi",
4     "id": 1,
5     "lastName": "Sethu Ragunathan",
6     "profileName": "preethisethu"
7   },
8   {
9     "firstName": "Admin",
10    "id": 2,
11    "lastName": "User",
12    "profileName": "admin"
13  },
14  {
15    "firstName": "Admin3",
16    "id": 4,
17    "lastName": "User3",
18    "profileName": "admin3"
19  }
20 ]
```

2. CRUD Functions of Comment Service

Listing 6 Messages

ST Client | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

http://localhost:8181/messenger/webapi/messages/ GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 27 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "author": "Preethi",
4     "comments": {},
5     "created": "2018-10-23T10:19:09.696Z[UTC]",
6     "id": 1,
7     "links": [],
8     "message": "Hello World"
9   },
10  {
11    "author": "Preethi",
12    "comments": {},
13    "created": "2018-10-23T10:19:09.696Z[UTC]",
14    "id": 2,
15    "links": [],
16    "message": "Hello Jersey"
17  },
18  {
19    "author": "Preethi",
20    "comments": {},
21    "created": "2018-10-23T10:19:09.696Z[UTC]",
22    "id": 3,
23    "links": [],
24    "message": "Hello REST"
25  },
26  {
27    "author": "Preethi",
28    "comments": {},
29    "created": "2018-10-18T20:19:23.984Z[UTC]",
30    "id": 4,
31    "links": [],
32    "message": "API's are fun"
33  },
34  {
35    "author": "Preethi",
36    "comments": {},
37    "created": "2018-10-18T20:19:23.984Z[UTC]",
38    "id": 5,
39    "links": [],
40    "message": "RESTful is fun"
41  },
42  {
43    "author": "Preethi",
44    "comments": {},
45    "created": "2018-10-18T20:19:23.984Z[UTC]",
46    "id": 6,
```

Create comment 1 for message 4

ST Client chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/4/comments POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "message": "Comment 1 for message4"
5 }
6
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 112 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": "Comment 1 for message4"
6 }
```

Comment1 created!

EST Client chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/4/comments GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 21 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "author": "Preethi",
4     "created": "2018-10-18T20:19:23.984Z[UTC]",
5     "id": 1,
6     "message": "Comment 1 for message4"
7   }
8 ]
```

Create comments 1 and 2 for message5

ST Client | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/5/comments POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "message": "Comment 1 for message5"
5 }
6
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 33 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": "Comment 1 for message5"
6 }
```

ST Client | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/5/comments POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "message": "Comment 2 for message5"
5 }
6
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 77 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 2,
5   "message": "Comment 2 for message5"
6 }
```

Comments1 and 2 for message 2 created

EST Client | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/5/comments GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 26 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "author": "Preethi",
4     "created": "2018-10-18T20:19:23.984Z[UTC]",
5     "id": 1,
6     "message": "Comment 1 for message5"
7   },
8   {
9     "author": "Preethi",
10    "created": "2018-10-18T20:19:23.984Z[UTC]",
11    "id": 2,
12    "message": "Comment 2 for message5"
13  }
14 ]
```

Create comments 1,2,3 for message 3

ST Client | chrome-extension://coohjcphdfgbiolnekdpbcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "message": "Comment 1 for message6"
5 }
6
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 31 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": "Comment 1 for message6"
6 }
```

ST Client | chrome-extension://coohjcphdfgbiolnekdpbcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "message": "Comment 2 for message6"
5 }
6
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 30 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 2,
5   "message": "Comment 2 for message6"
6 }
```

EST Client chrome-extension://coohjcphdfgbiolnekdpcbjmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments POST

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "message": "Comment 3 for message6"
5 }
6
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 49 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 3,
5   "message": "Comment 3 for message6"
6 }
```

Comments 1,2 & 3 created for message 6

EST Client chrome-extension://coohjcphdfgbiolnekdpcbjmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 51 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "author": "Preethi",
4     "created": "2018-10-18T20:19:23.984Z[UTC]",
5     "id": 1,
6     "message": "Comment 1 for message6"
7   },
8   {
9     "author": "Preethi",
10    "created": "2018-10-18T20:19:23.984Z[UTC]",
11    "id": 2,
12    "message": "Comment 2 for message6"
13  },
14  {
15    "author": "Preethi",
16    "created": "2018-10-18T20:19:23.984Z[UTC]",
17    "id": 3,
18    "message": "Comment 3 for message6"
19  }
20 ]
```

PUT for comment 1 in message 6

ST Client | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments/1 GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 464 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": "Comment 1 for message6"
6 }
```

Put works. Comment updated!

ST Client | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments/1 PUT

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": "Comment 1 for message6 is updated!"
6 }
```

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 37 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": "Comment 1 for message6 is updated!"
6 }
```

EST Client chrome-extension://coohjcphdfgbiolnekdpcbjmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments/1 GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 20 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": "Comment 1 for message6 is updated!"
6 }
```

Get all comments after updating comment 1 of message 6

EST Client chrome-extension://coohjcphdfgbiolnekdpcbjmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments/ GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 71 ms

Pretty Raw Preview JSON XML

```
1 [
2   {
3     "author": "Preethi",
4     "created": "2018-10-18T20:19:23.984Z[UTC]",
5     "id": 1,
6     "message": "Comment 1 for message6 is updated!"
7   },
8   {
9     "author": "Preethi",
10    "created": "2018-10-18T20:19:23.984Z[UTC]",
11    "id": 2,
12    "message": "Comment 2 for message6"
13  },
14  {
15    "author": "Preethi",
16    "created": "2018-10-18T20:19:23.984Z[UTC]",
17    "id": 3,
18    "message": "Comment 3 for message6"
19  }
20 ]
```

Delete function for comment3-message 6

REST Client | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6/comments/3 GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 19 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 3,
5   "message": "Comment 3 for message6"
6 }
```

Delete works!

ent | chrome-extension://coohjcphdfgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/3/comments/3 DELETE

form-data x-www-form-urlencoded raw JSON

```
1 {
2   "author": "Preethi",
3   "created": "2018-10-18T20:19:23.984Z[UTC]",
4   "id": 1,
5   "message": " Comment3 for message3 "
6 }
7 }
```

Send Preview Add to collection

Body Headers (2) STATUS 204 No Content TIME 17 ms

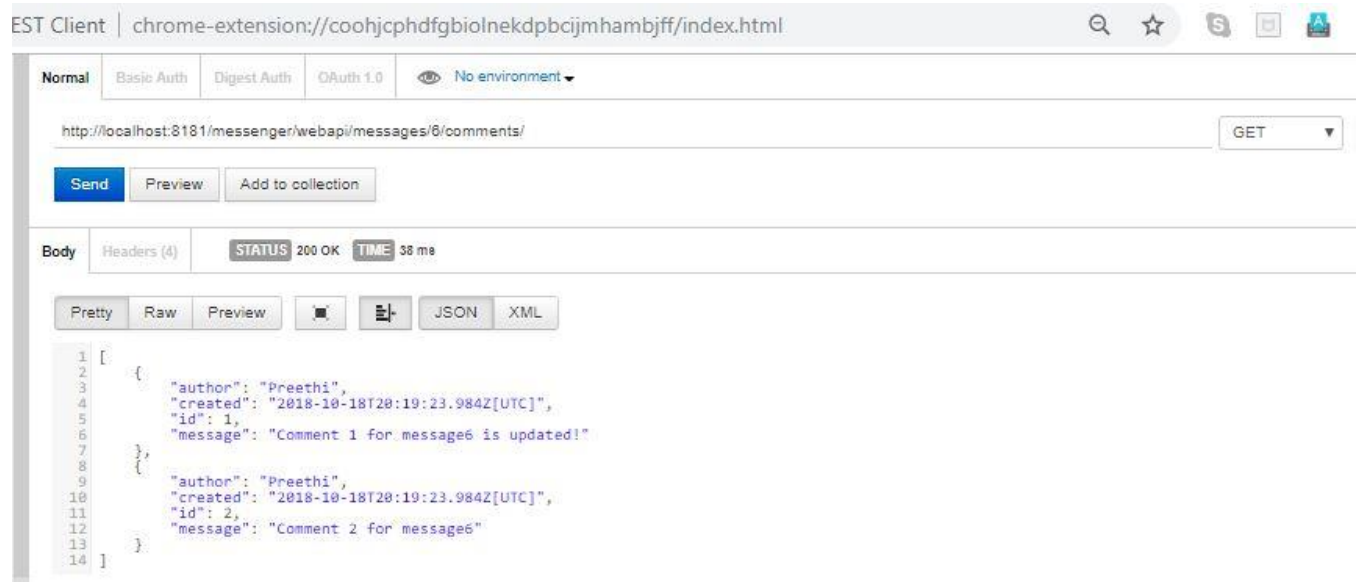
Pretty Raw Preview JSON XML

```
1
```

Delete function throws exception after deleted



Getting all comments after delete for message 6



3.HATEOS

Hateos for message5 with author, comments links and profile

EST Client | chrome-extension://coohjcphdfigbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/5 GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 22 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "comments": {
4     "1": {
5       "author": "Preethi",
6       "created": "2018-10-18T20:19:23.984Z[UTC]",
7       "id": 1,
8       "message": "Comment 1 for message5"
9     },
10    "2": {
11      "author": "Preethi",
12      "created": "2018-10-18T20:19:23.984Z[UTC]",
13      "id": 2,
14      "message": "Comment 2 for message5"
15    }
16  },
17  "created": "2018-10-18T20:19:23.984Z[UTC]",
18  "id": 5,
19  "links": [
20    {
21      "link": "http://localhost:8181/messenger/webapi/messages/5",
22      "rel": "self"
23    },
24    {
25      "link": "http://localhost:8181/messenger/webapi/profiles/Preethi",
26      "rel": "profile"
27    },
28    {
29      "link": "http://localhost:8181/messenger/webapi/messages/5/comments/",
30      "rel": "comments"
31    }
32  ],
33  "message": "RESTful is fun"
34 }
```

Hateos for message6 with author, comments links and profile

REST Client | chrome-extension://coohjcpdphdgbiolnekdpcijmhambjff/index.html

Normal Basic Auth Digest Auth OAuth 1.0 No environment

http://localhost:8181/messenger/webapi/messages/6 GET

Send Preview Add to collection

Body Headers (4) STATUS 200 OK TIME 31 ms

Pretty Raw Preview JSON XML

```
1 {
2   "author": "Preethi",
3   "comments": {
4     "1": {
5       "author": "Preethi",
6       "created": "2018-10-18T20:19:23.984Z[UTC]",
7       "id": 1,
8       "message": "Comment 1 for message6 is updated!"
9     },
10    "2": {
11      "author": "Preethi",
12      "created": "2018-10-18T20:19:23.984Z[UTC]",
13      "id": 2,
14      "message": "Comment 2 for message6"
15    }
16  },
17  "created": "2018-10-18T20:19:23.984Z[UTC]",
18  "id": 6,
19  "links": [
20    {
21      "link": "http://localhost:8181/messenger/webapi/messages/6",
22      "rel": "self"
23    },
24    {
25      "link": "http://localhost:8181/messenger/webapi/profiles/Preethi",
26      "rel": "profile"
27    },
28    {
29      "link": "http://localhost:8181/messenger/webapi/messages/6/comments/",
30      "rel": "comments"
31    }
32  ],
33  "message": "Jersey Fun"
34 }
```