LAB 2

npm install in each folder.

install and run redis server

use ‘node index.js’ command line in folder ‘recipe-worker’

use ‘npm start’ command line in folder ‘recipe-server’

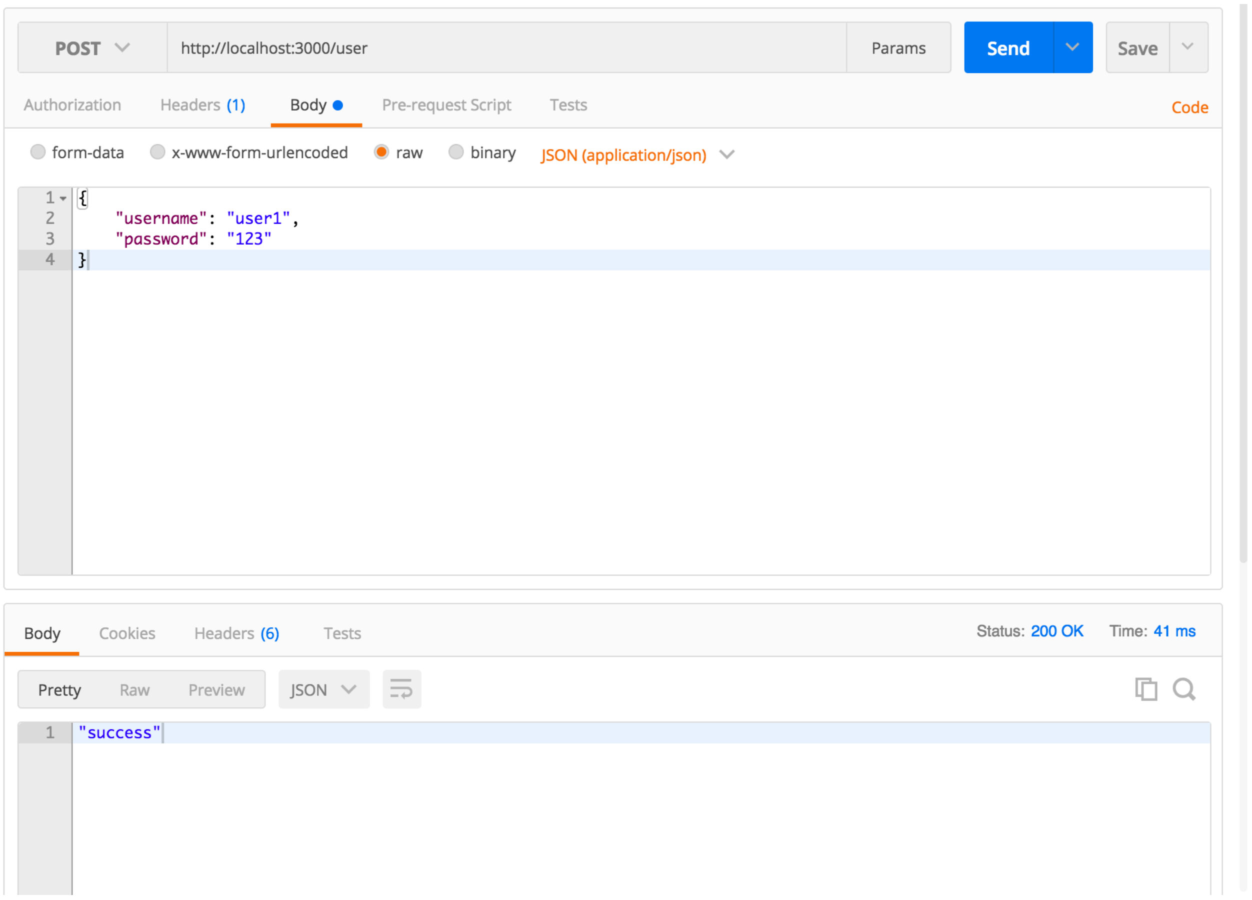
Use Postman to test the api

Screenshot in each route:

USER

1.

POST	/users	Posting to this route must allow for the creation of a user. Making a new user updates the location in redis that you are using to cache your list of users; whether this is a set, a hash, or a JSON string is up to you. You should also cache the entire user in redis so that they are cached by their ID.



POST http://localhost:3000/user

Body: raw, JSON (application/json)

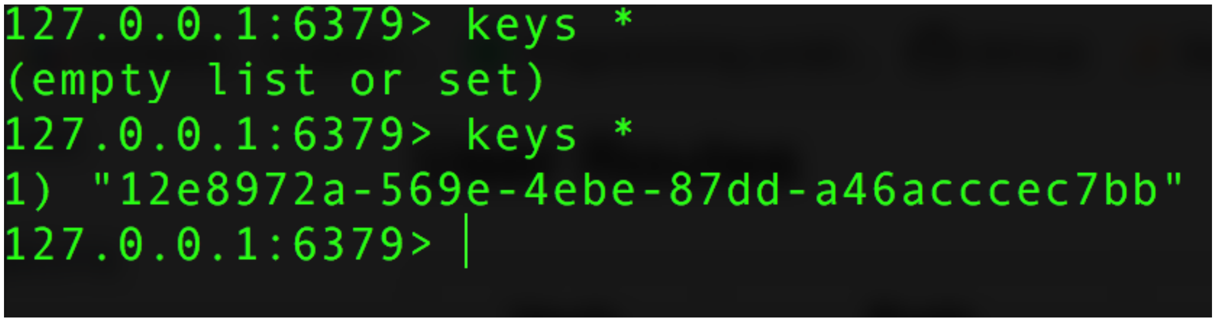
```
{
    "username": "user1",
    "password": "123"
}
```

Status: 200 OK Time: 41 ms

Body: Pretty, JSON

```
"success"
```

Result:



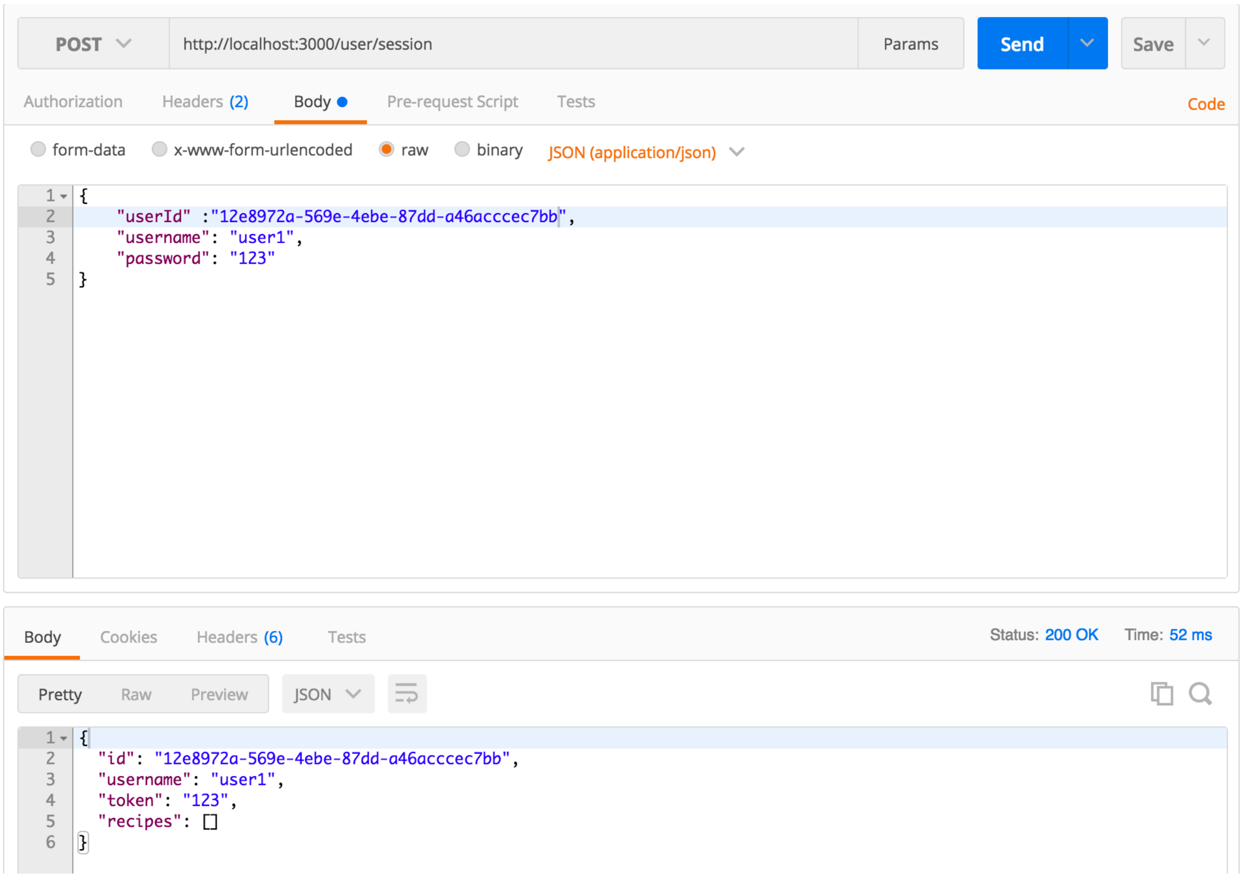
```
127.0.0.1:6379> keys *
(empty list or set)
127.0.0.1:6379> keys *
1) "12e8972a-569e-4ebe-87dd-a46acccec7bb"
127.0.0.1:6379> |
```

Body format:

```
{
        "username": "user1",
        "password": "123"
}
```

2.

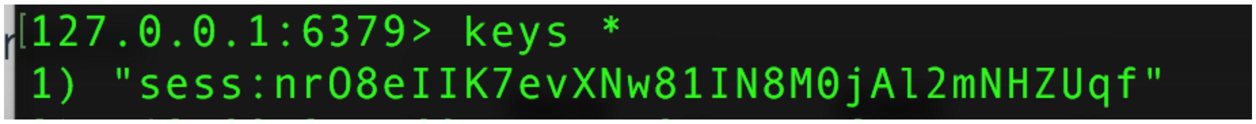
POST	/users/session	Posting your username and password to this route must create a new session for the user with the credentials provided and respond with the authentication token that will associate the user to the token. The token returned will be the value provided to the server in the Auth-Token header



```
{
    "userId" :"12e8972a-569e-4ebe-87dd-a46acccec7bb",
    "username": "user1",
    "password": "123"
}
```

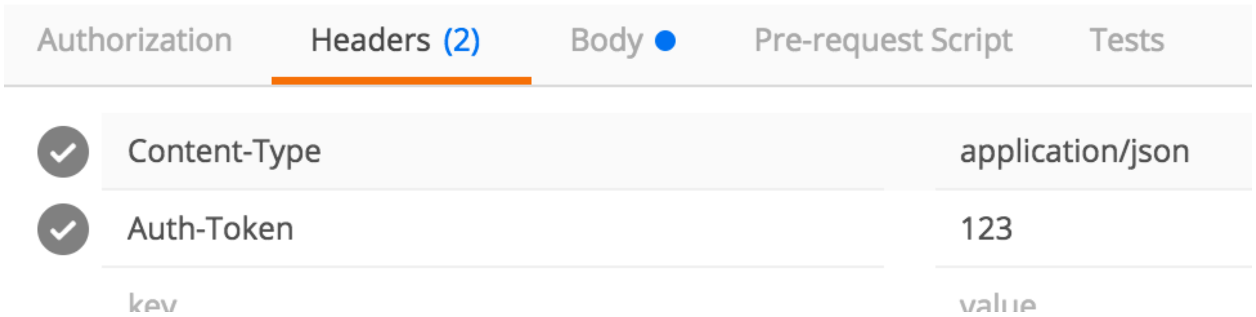
```
{
  "id": "12e8972a-569e-4ebe-87dd-a46acccec7bb",
  "username": "user1",
  "token": "123",
  "recipes": []
}
```

Result:



```
[127.0.0.1:6379> keys *
1) "sess:nr08eIIK7evXNw81IN8M0jAl2mNHZUqf"
```

Headers:



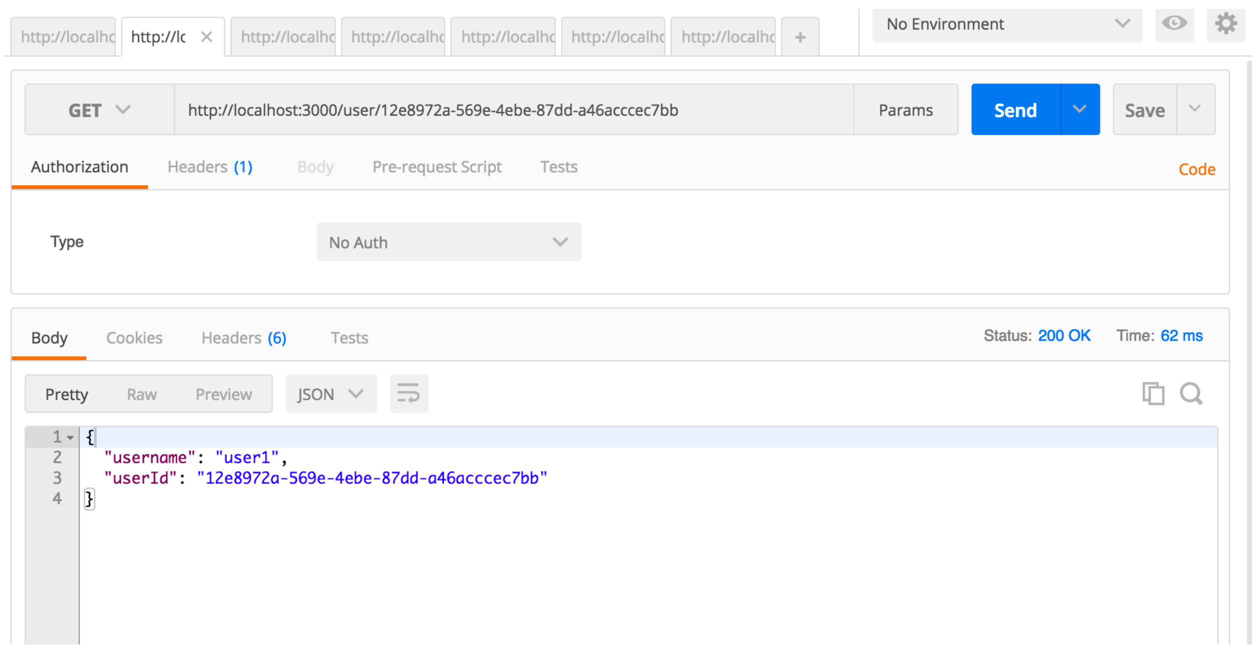
Content-Type	application/json
Auth-Token	123
key	value

Body format:

```
{
        "userId" :"12e8972a-569e-4ebe-87dd-a46acccec7bb",
        "username": "user1",
        "password": "123"
}
```

3.

GET	/users/:id	Must provide public facing info about the user; no sensitive data must be displayed; results will be cached for 5 minutes. You can cache using the express-redis-cache package or you may cache the data yourself.



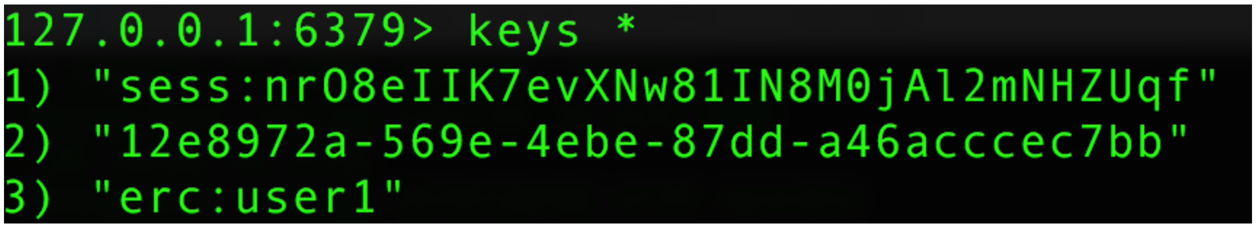
GET http://localhost:3000/user/12e8972a-569e-4ebe-87dd-a46acccec7bb

Type: No Auth

Status: 200 OK Time: 62 ms

```
{
  "username": "user1",
  "userId": "12e8972a-569e-4ebe-87dd-a46acccec7bb"
}
```

Result: (cache for 5 mins)

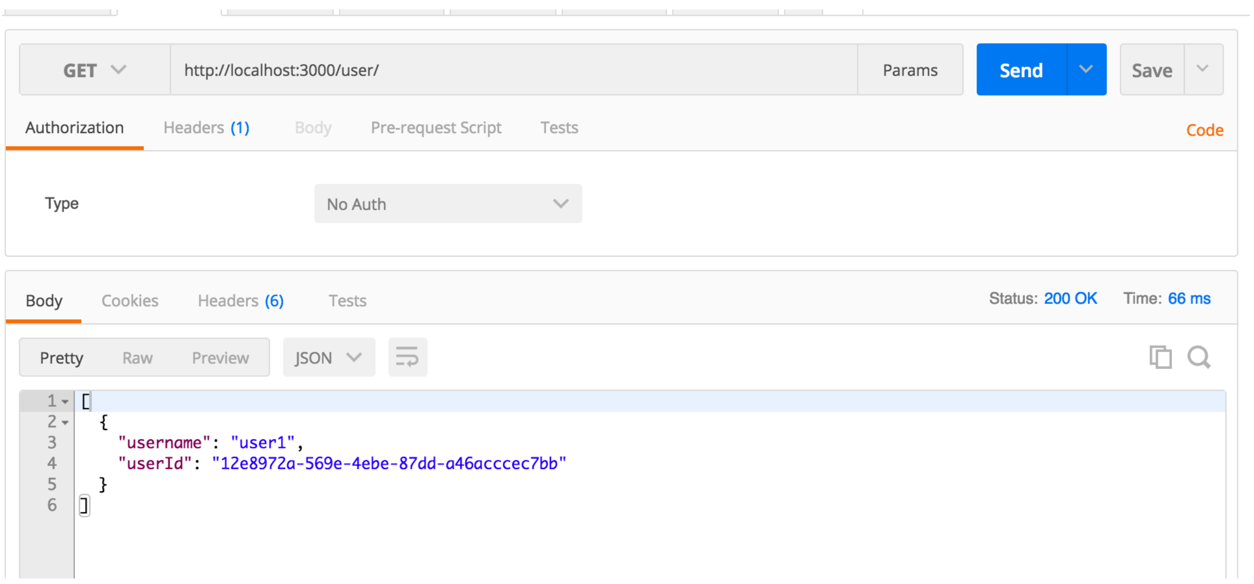


```
127.0.0.1:6379> keys *
1) "sess:nrO8eIIK7evXNw81IN8M0jAl2mNHZUqf"
2) "12e8972a-569e-4ebe-87dd-a46acccec7bb"
3) "erc:user1"
```

‘erc: user1’ is the cache

4.

GET	/users	Provides public facing info about all users; results will be cached for 10 minutes. You can cache using the express-redis-cache package or you may cache the data yourself.



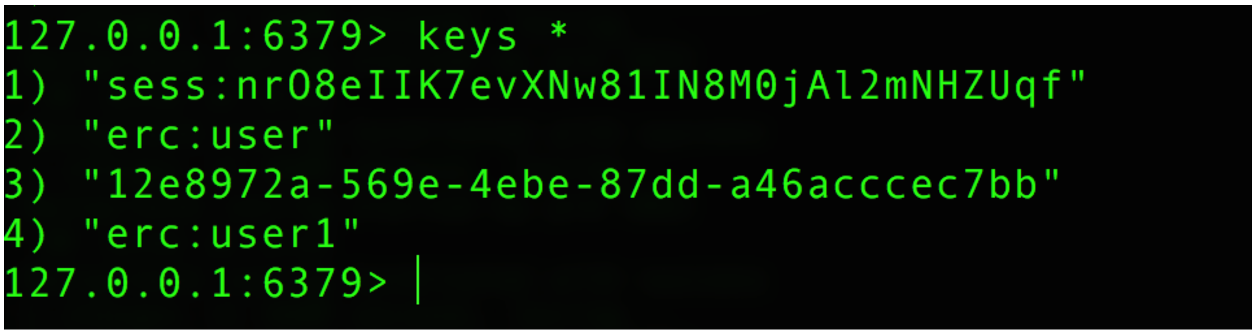
GET http://localhost:3000/user/

Authorization — Type: No Auth

Status: 200 OK Time: 66 ms

```
[
  {
    "username": "user1",
    "userId": "12e8972a-569e-4ebe-87dd-a46acccec7bb"
  }
]
```

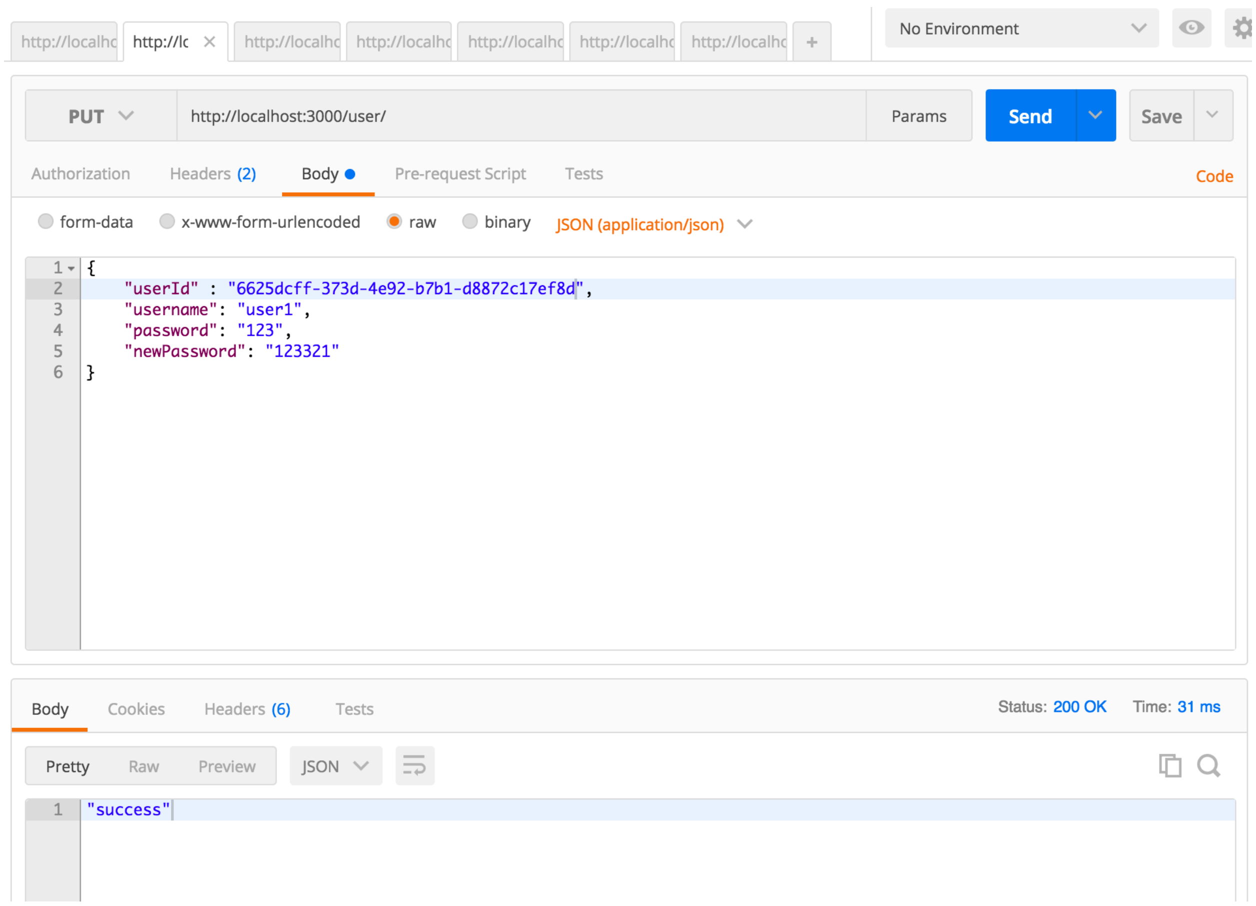
Result: (cache all user for 10 mins)
THE “erc:user” is the whole user cache



```
127.0.0.1:6379> keys *
1) "sess:nrO8eIIK7evXNw81IN8M0jAl2mNHZUqf"
2) "erc:user"
3) "12e8972a-569e-4ebe-87dd-a46acccec7bb"
4) "erc:user1"
127.0.0.1:6379> |
```

5.

PUT	/users	PUTing to this route must update the current user; note, you'll have to be authenticated to do this! If a cache entry exists for this user, it must be updated and exist for 5 minutes before expiring (basically, reset the cache time)



PUT http://localhost:3000/user/

Authorization | Headers (2) | Body | Pre-request Script | Tests

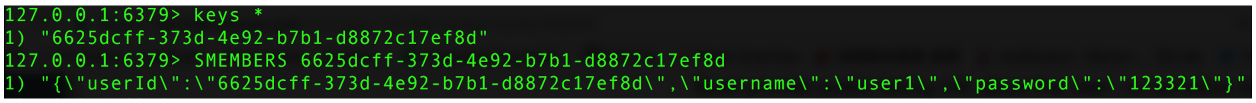
form-data | x-www-form-urlencoded | raw | binary | JSON (application/json)

```
{
    "userId" : "6625dcff-373d-4e92-b7b1-d8872c17ef8d",
    "username": "user1",
    "password": "123",
    "newPassword": "123321"
}
```

Status: 200 OK Time: 31 ms

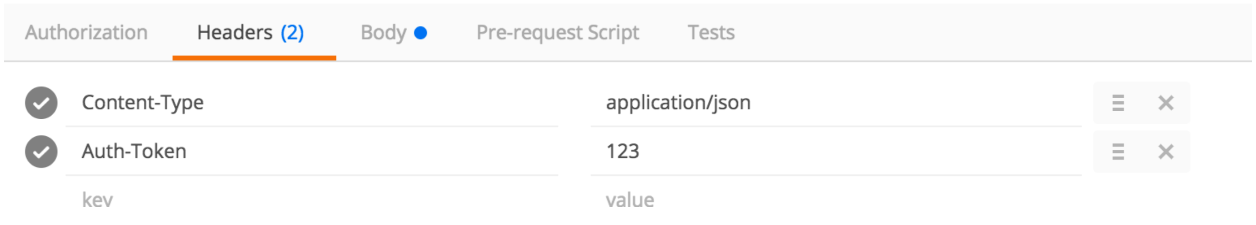
```
"success"
```

Result:



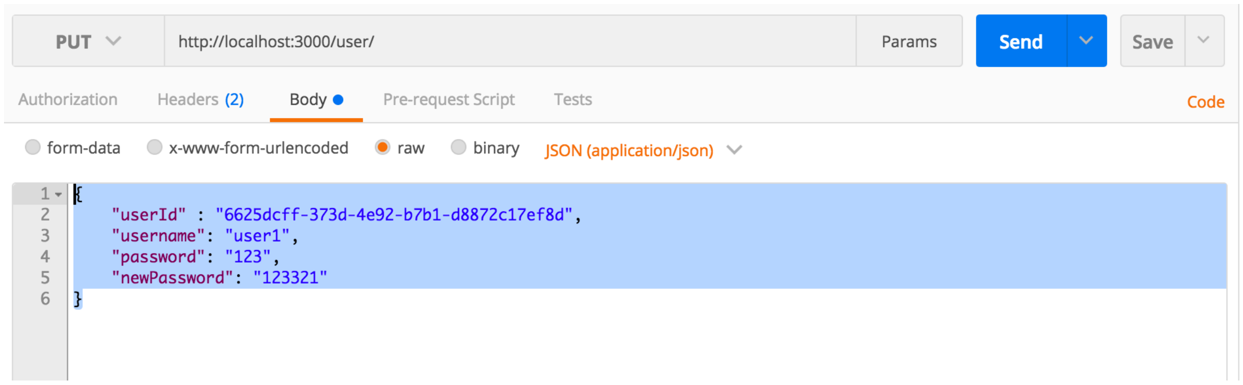
```
127.0.0.1:6379> keys *
1) "6625dcff-373d-4e92-b7b1-d8872c17ef8d"
127.0.0.1:6379> SMEMBERS 6625dcff-373d-4e92-b7b1-d8872c17ef8d
1) "{\"userId\":\"6625dcff-373d-4e92-b7b1-d8872c17ef8d\",\"username\":\"user1\",\"password\":\"123321\"}"
```

headers:



Content-Type	application/json
Auth-Token	123
key	value

body format:


PUT http://localhost:3000/user/

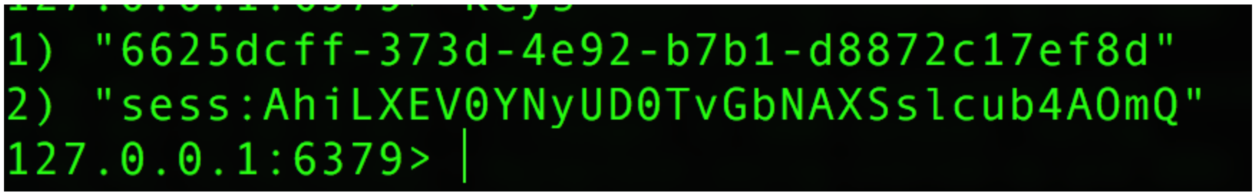
Body: raw, JSON (application/json)

```
{
    "userId" : "6625dcff-373d-4e92-b7b1-d8872c17ef8d",
    "username": "user1",
    "password": "123",
    "newPassword": "123321"
}
```

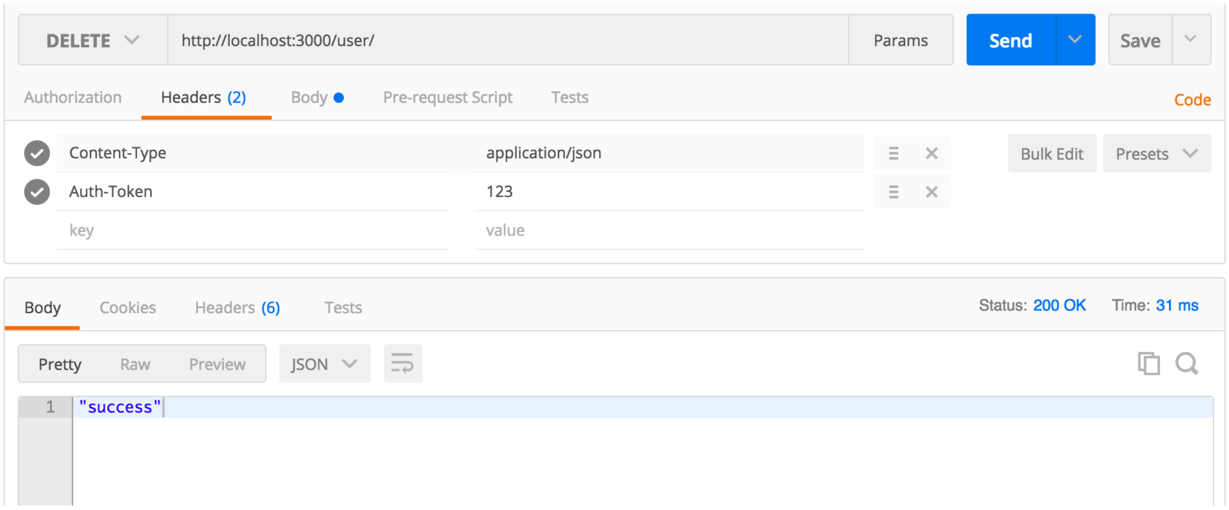
6.

DELETE	/users	Will delete your user based on the Auth-token provided and invalidate session; If a cache entry exists for this user, it will be removed.

Before:


```
1) "6625dcff-373d-4e92-b7b1-d8872c17ef8d"
2) "sess:AhiLXEV0YNyUD0TvGbNAXSslcub4AOmQ"
127.0.0.1:6379>
```

session exist


DELETE http://localhost:3000/user/

Headers (2)

Content-Type	application/json
Auth-Token	123

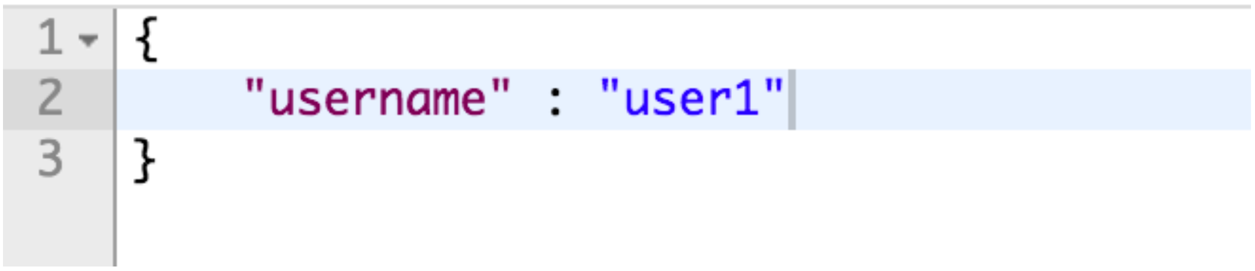
Status: 200 OK Time: 31 ms

```
"success"
```

Headers:

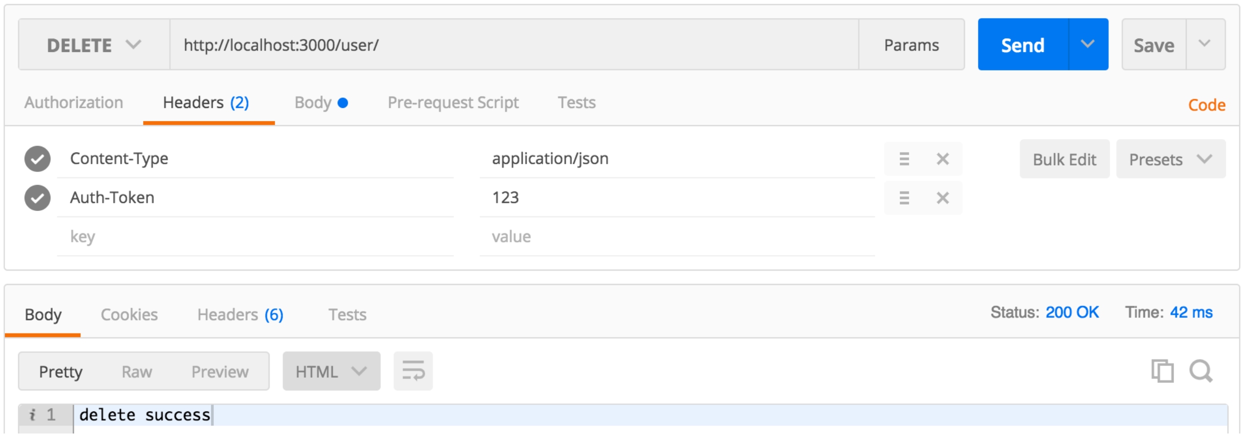
Auth-Token match with session

Body: (user name should be provided)



```
{
        "username" : "user1"
}
```

After:

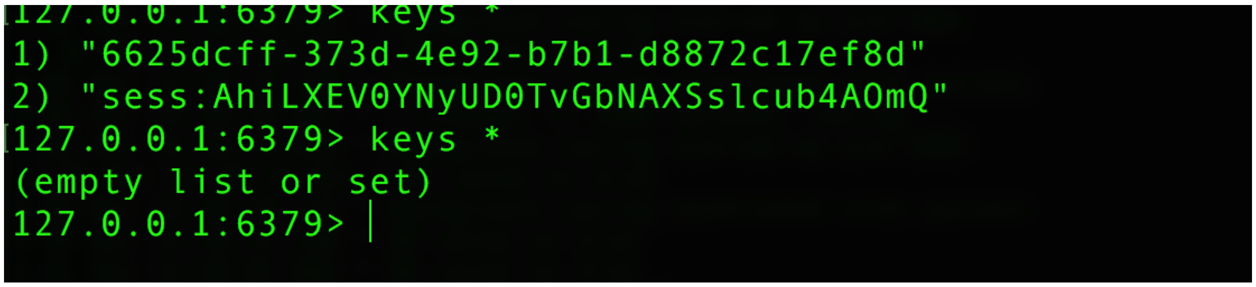


DELETE http://localhost:3000/user/

Content-Type	application/json
Auth-Token	123

Status: 200 OK Time: 42 ms

```
delete success
```

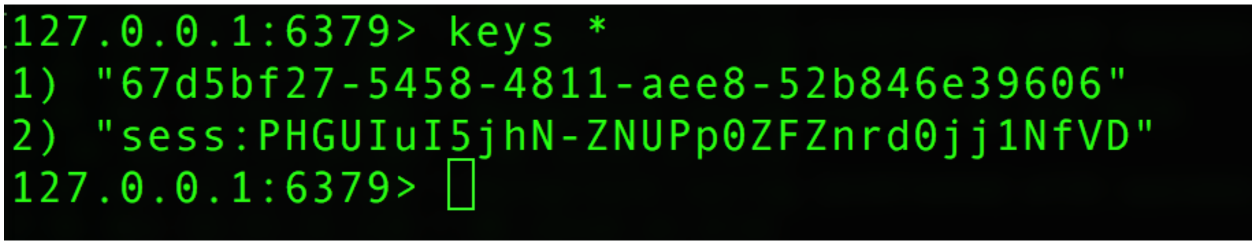


```
127.0.0.1:6379> keys *
1) "6625dcff-373d-4e92-b7b1-d8872c17ef8d"
2) "sess:AhiLXEV0YNyUD0TvGbNAXSslcub4AOmQ"
127.0.0.1:6379> keys *
(empty list or set)
127.0.0.1:6379>
```

Recipes

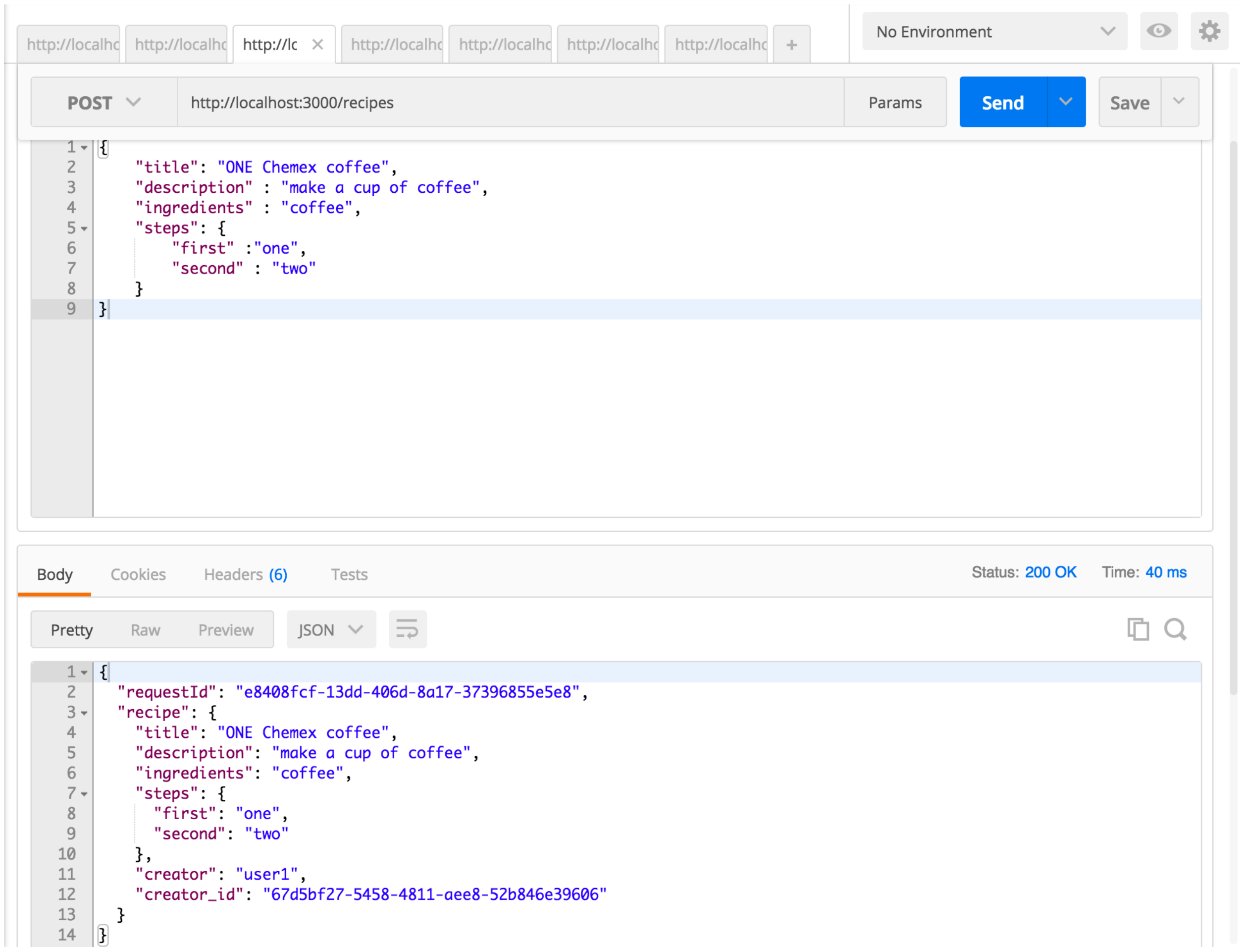
1.

POST	/recipes	**Modify this route** to add some association between the user and the recipe; you can only make recipes while logged in; the new recipe will be cached for 1 hour; the recipe list cache entry will be updated if it exists



```
127.0.0.1:6379> keys *
1) "67d5bf27-5458-4811-aee8-52b846e39606"
2) "sess:PHGUIuI5jhN-ZNUPp0ZFZnrd0jj1NfVD"
127.0.0.1:6379> 
```

User session exist, user logged in.
body:



POST http://localhost:3000/recipes

```
{
    "title": "ONE Chemex coffee",
    "description" : "make a cup of coffee",
    "ingredients" : "coffee",
    "steps": {
        "first" :"one",
        "second" : "two"
    }
}
```

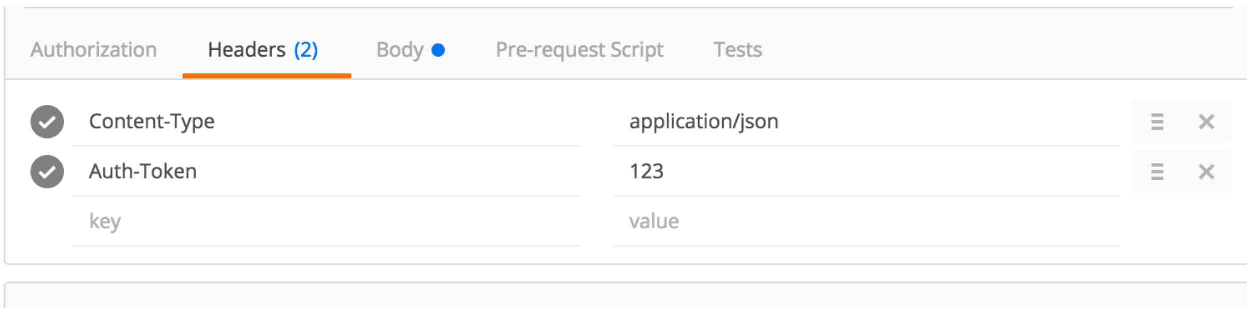
Body

Status: 200 OK Time: 40 ms

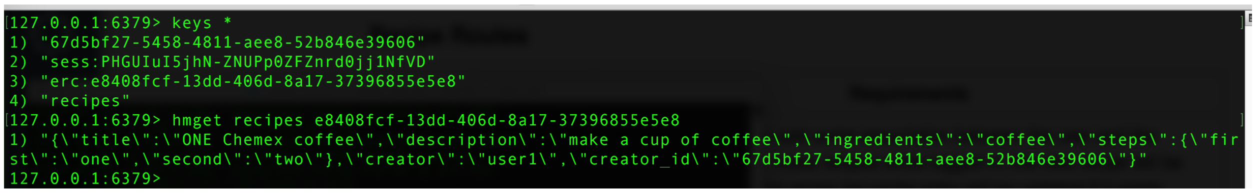
```
{
  "requestId": "e8408fcf-13dd-406d-8a17-37396855e5e8",
  "recipe": {
    "title": "ONE Chemex coffee",
    "description": "make a cup of coffee",
    "ingredients": "coffee",
    "steps": {
      "first": "one",
      "second": "two"
    },
    "creator": "user1",
    "creator_id": "67d5bf27-5458-4811-aee8-52b846e39606"
  }
}
```

```
{
        "title": "ONE Chemex coffee",
        "description" : "make a cup of coffee",
        "ingredients" : "coffee",
        "steps": {
                "first" :"one",
                "second" : "two"
        }
}
```

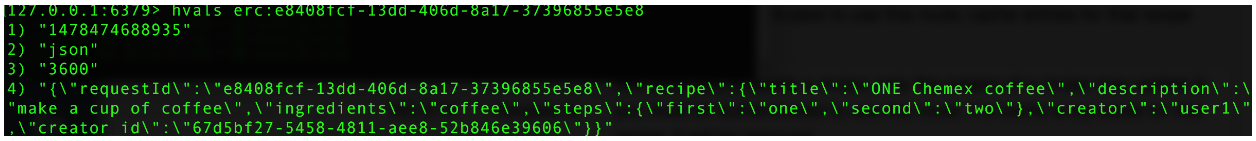
Headers:


Authorization | Headers (2) | Body | Pre-request Script | Tests

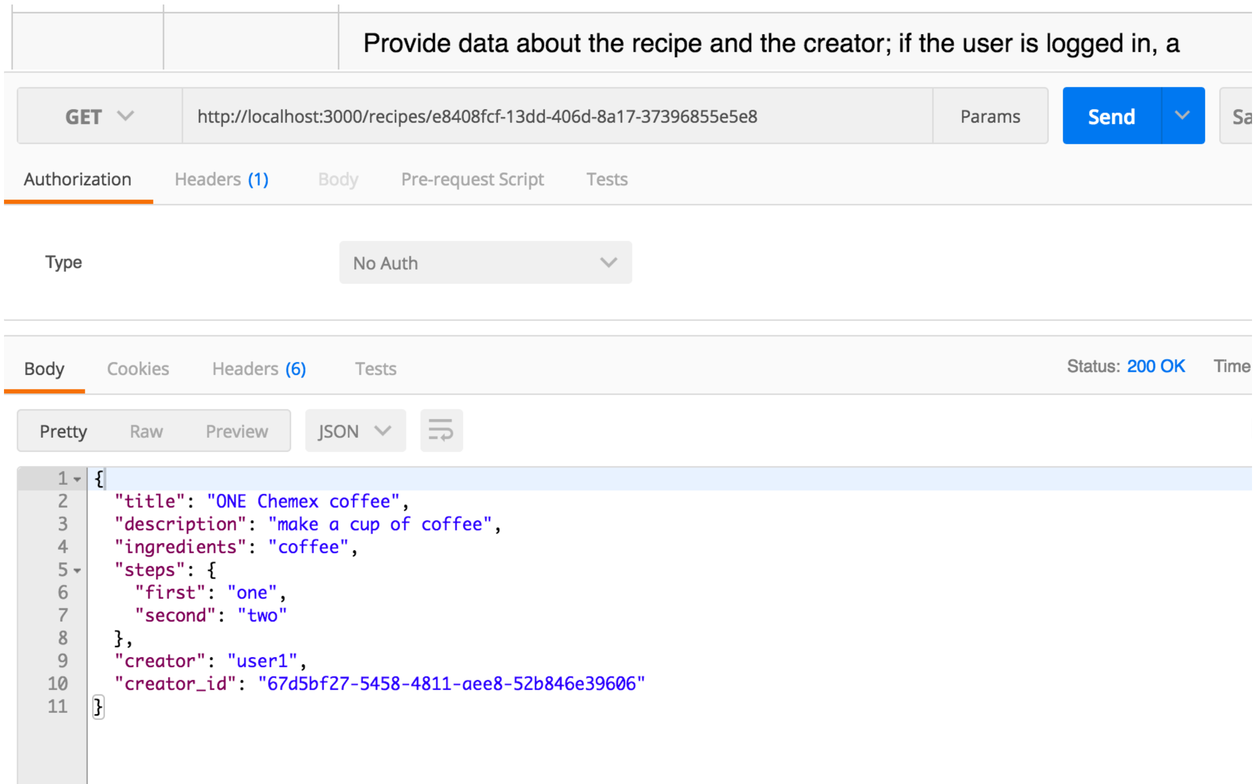
Content-Type	application/json
Auth-Token	123
key	value


```
127.0.0.1:6379> keys *
1) "67d5bf27-5458-4811-aee8-52b846e39606"
2) "sess:PHGUIuI5jhN-ZNUPp0ZFZnrd0jj1NfVD"
3) "erc:e8408fcf-13dd-406d-8a17-37396855e5e8"
4) "recipes"
127.0.0.1:6379> hmget recipes e8408fcf-13dd-406d-8a17-37396855e5e8
1) "{\"title\":\"ONE Chemex coffee\",\"description\":\"make a cup of coffee\",\"ingredients\":\"coffee\",\"steps\":{\"fir
st\":\"one\",\"second\":\"two\"},\"creator\":\"user1\",\"creator_id\":\"67d5bf27-5458-4811-aee8-52b846e39606\"}"
127.0.0.1:6379>
```

All recipes store in “recipes” list.
cache the new recipe when it be created.


```
127.0.0.1:6379> hvals erc:e8408fcf-13dd-406d-8a17-37396855e5e8
1) "1478474688935"
2) "json"
3) "3600"
4) "{\"requestId\":\"e8408fcf-13dd-406d-8a17-37396855e5e8\",\"recipe\":{\"title\":\"ONE Chemex coffee\",\"description\":\
"make a cup of coffee\",\"ingredients\":\"coffee\",\"steps\":{\"first\":\"one\",\"second\":\"two\"},\"creator\":\"user1\"
,\"creator_id\":\"67d5bf27-5458-4811-aee8-52b846e39606\"}}"
```

2.


Provide data about the recipe and the creator; if the user is logged in, a

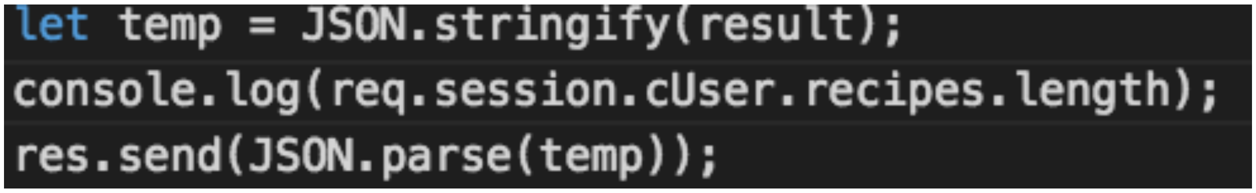
GET http://localhost:3000/recipes/e8408fcf-13dd-406d-8a17-37396855e5e8

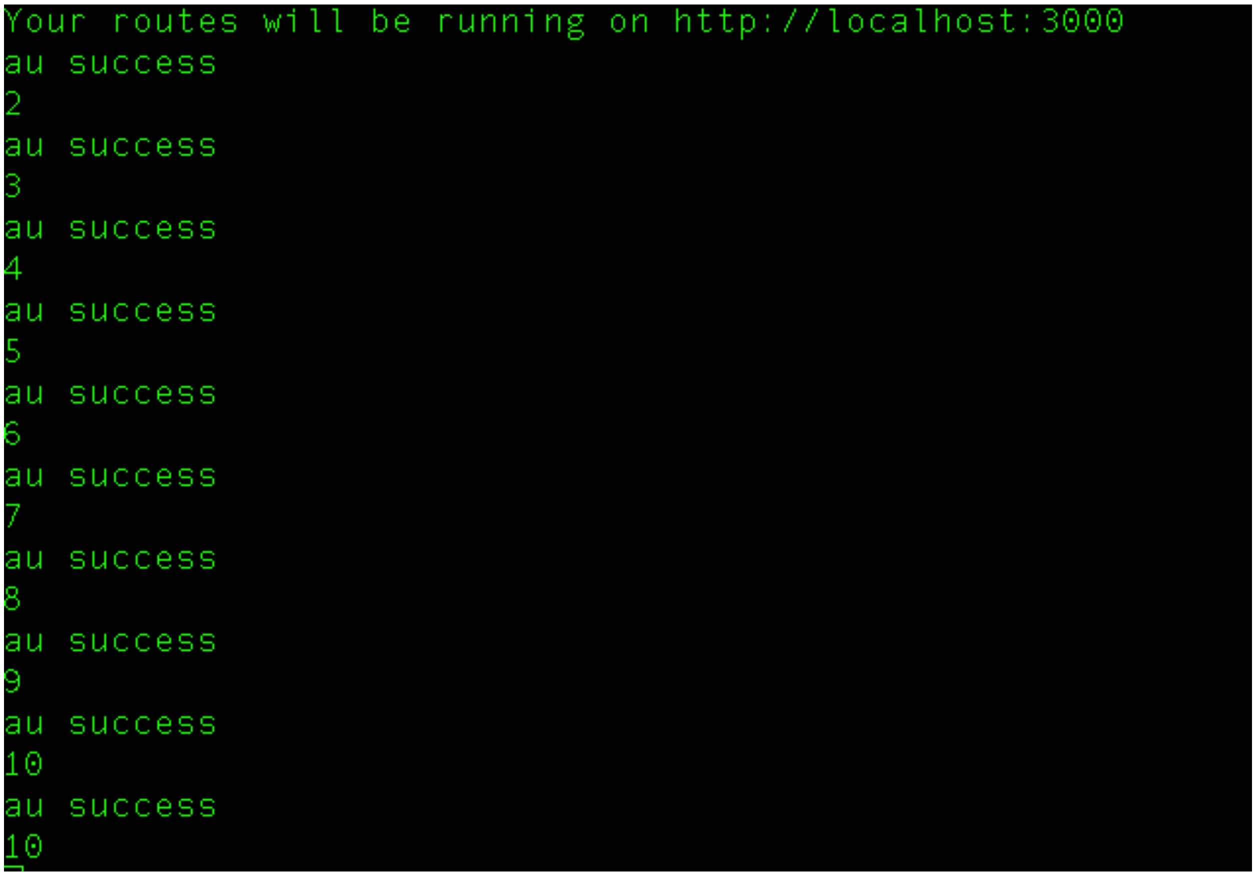
Type: No Auth

Status: 200 OK Time

```
{
  "title": "ONE Chemex coffee",
  "description": "make a cup of coffee",
  "ingredients": "coffee",
  "steps": {
    "first": "one",
    "second": "two"
  },
  "creator": "user1",
  "creator_id": "67d5bf27-5458-4811-aee8-52b846e39606"
}
```

use this part to test how many recipes

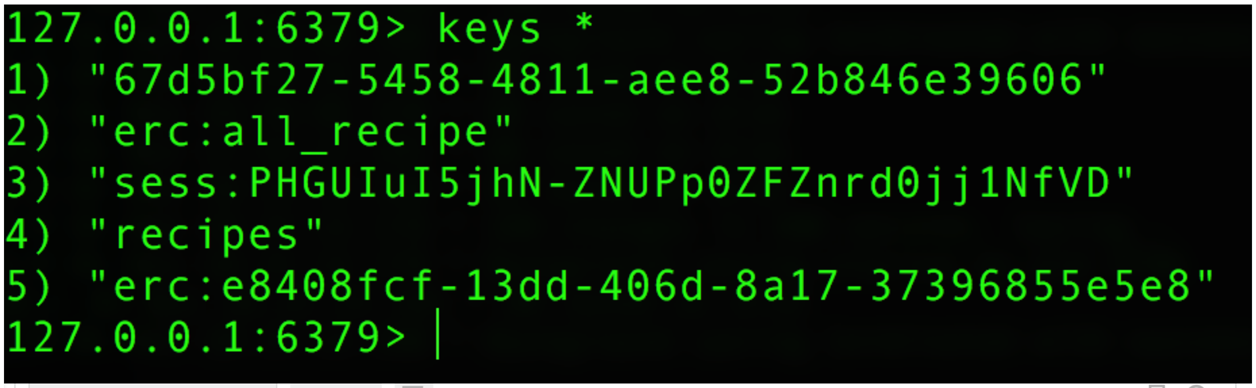

```
let temp = JSON.stringify(result);
console.log(req.session.cUser.recipes.length);
res.send(JSON.parse(temp));
```


```
Your routes will be running on http://localhost:3000
au success
2
au success
3
au success
4
au success
5
au success
6
au success
7
au success
8
au success
9
au success
10
au success
10
```

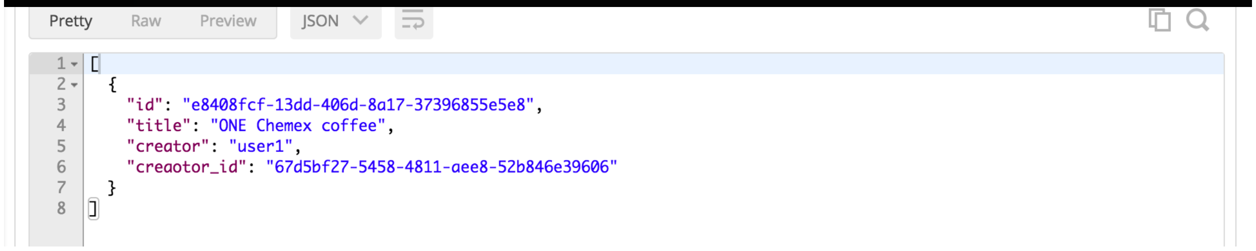
3.

GET	/recipes	Provide the id, title, creator, and creator ID of each recipe; the result should be cached for 1 hour. You can cache using the express-redis-cache package or you may cache the data yourself.

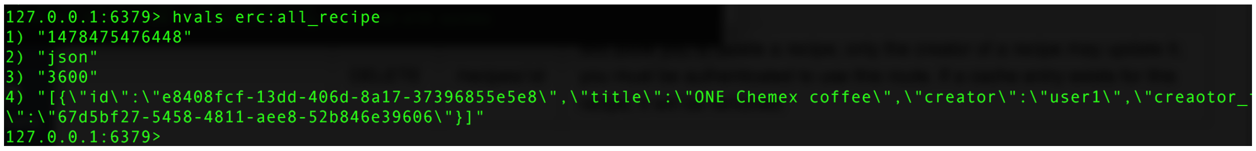
cache in “erc:all_recipe” for 1 hours



```
127.0.0.1:6379> keys *
1) "67d5bf27-5458-4811-aee8-52b846e39606"
2) "erc:all_recipe"
3) "sess:PHGUIuI5jhN-ZNUPp0ZFZnrd0jj1NfVD"
4) "recipes"
5) "erc:e8408fcf-13dd-406d-8a17-37396855e5e8"
127.0.0.1:6379>
```



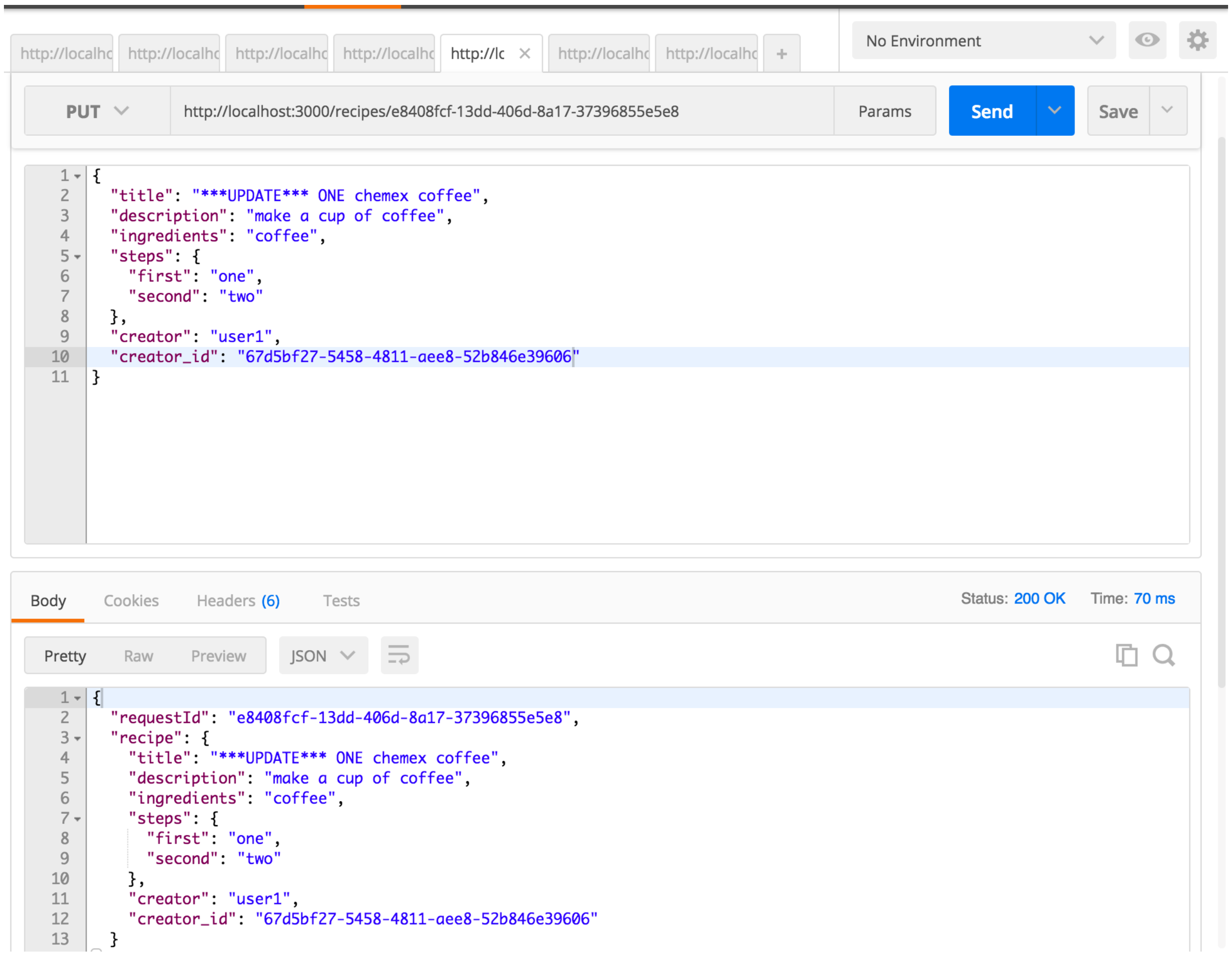
```
[
  {
    "id": "e8408fcf-13dd-406d-8a17-37396855e5e8",
    "title": "ONE Chemex coffee",
    "creator": "user1",
    "creaotor_id": "67d5bf27-5458-4811-aee8-52b846e39606"
  }
]
```



```
127.0.0.1:6379> hvals erc:all_recipe
1) "1478475476448"
2) "json"
3) "3600"
4) "[{\"id\":\"e8408fcf-13dd-406d-8a17-37396855e5e8\",\"title\":\"ONE Chemex coffee\",\"creator\":\"user1\",\"creaotor_
\":\"67d5bf27-5458-4811-aee8-52b846e39606\"}]"
127.0.0.1:6379>
```

4.

PUT	/recipes/:id	Will allow you to update a recipe; only the creator of a recipe may update it; you must be authenticated to use this route; cache entries for that recipe must be updated



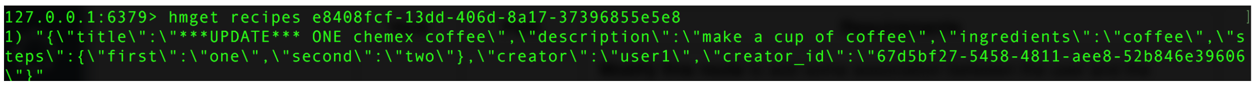
PUT http://localhost:3000/recipes/e8408fcf-13dd-406d-8a17-37396855e5e8

```
{
  "title": "***UPDATE*** ONE chemex coffee",
  "description": "make a cup of coffee",
  "ingredients": "coffee",
  "steps": {
    "first": "one",
    "second": "two"
  },
  "creator": "user1",
  "creator_id": "67d5bf27-5458-4811-aee8-52b846e39606"
}
```

Status: 200 OK Time: 70 ms

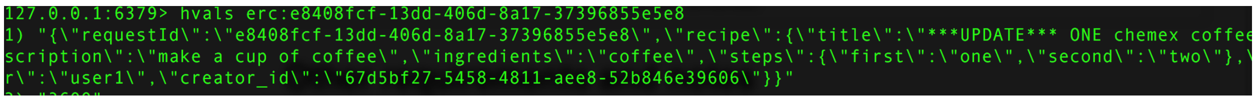
```
{
  "requestId": "e8408fcf-13dd-406d-8a17-37396855e5e8",
  "recipe": {
    "title": "***UPDATE*** ONE chemex coffee",
    "description": "make a cup of coffee",
    "ingredients": "coffee",
    "steps": {
      "first": "one",
      "second": "two"
    },
    "creator": "user1",
    "creator_id": "67d5bf27-5458-4811-aee8-52b846e39606"
  }
```

“recipes” be updated



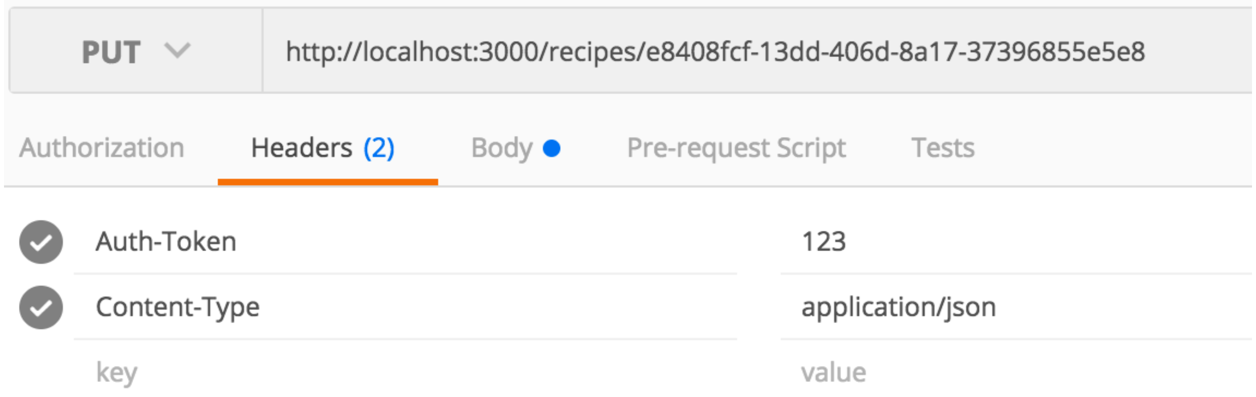
```
127.0.0.1:6379> hmget recipes e8408fcf-13dd-406d-8a17-37396855e5e8
1) "{\"title\":\"***UPDATE*** ONE chemex coffee\",\"description\":\"make a cup of coffee\",\"ingredients\":\"coffee\",\"s
teps\":{\"first\":\"one\",\"second\":\"two\"},\"creator\":\"user1\",\"creator_id\":\"67d5bf27-5458-4811-aee8-52b846e39606
\"}"
```

cache for this recipe also be update.



```
127.0.0.1:6379> hvals erc:e8408fcf-13dd-406d-8a17-37396855e5e8
1) "{\"requestId\":\"e8408fcf-13dd-406d-8a17-37396855e5e8\",\"recipe\":{\"title\":\"***UPDATE*** ONE chemex coffee
scription\":\"make a cup of coffee\",\"ingredients\":\"coffee\",\"steps\":{\"first\":\"one\",\"second\":\"two\"},\
r\":\"user1\",\"creator_id\":\"67d5bf27-5458-4811-aee8-52b846e39606\"}}"
```

headers: (Auth-Token must be provide for auth)


PUT http://localhost:3000/recipes/e8408fcf-13dd-406d-8a17-37396855e5e8

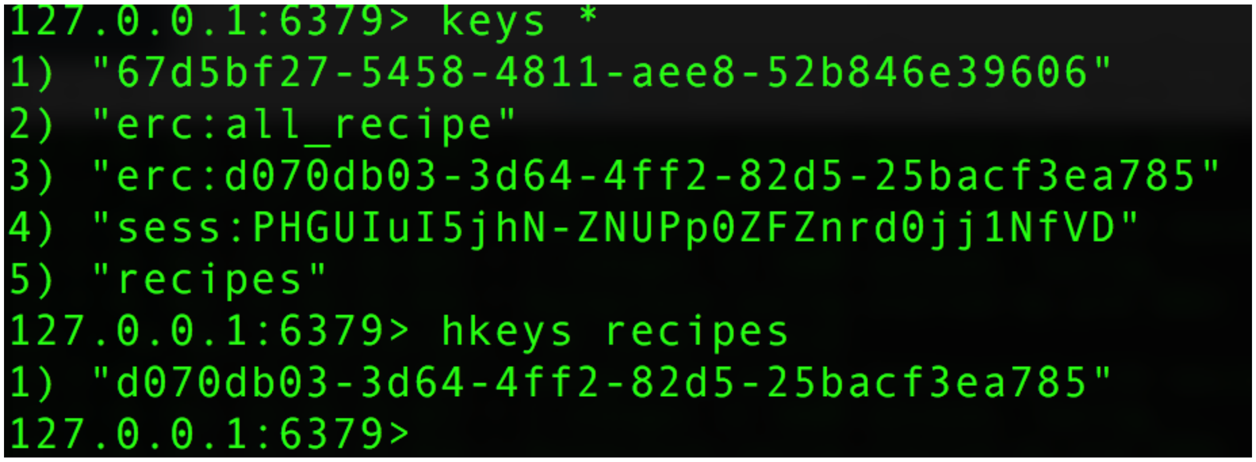
Auth-Token	123
Content-Type	application/json
key	value

body formate:

```
{
  "title": "***UPDATE*** ONE chemex coffee",
  "description": "make a cup of coffee",
  "ingredients": "coffee",
  "steps": {
    "first": "one",
    "second": "two"
  },
  "creator": "user1",
  "creator_id": "67d5bf27-5458-4811-aee8-52b846e39606"
}
```

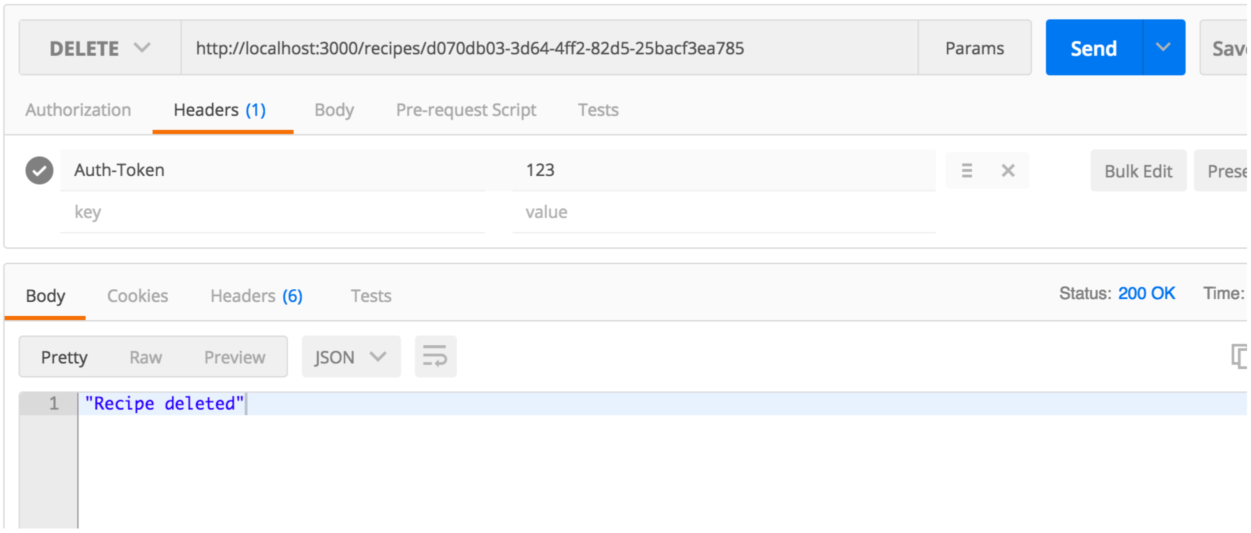
5.

DELETE	/recipes/:id	Will allow you to delete a recipe; only the creator of a recipe may update it; you must be authenticated to use this route. If a cache entry exists for this recipe, it will be removed.



```
127.0.0.1:6379> keys *
1) "67d5bf27-5458-4811-aee8-52b846e39606"
2) "erc:all_recipe"
3) "erc:d070db03-3d64-4ff2-82d5-25bacf3ea785"
4) "sess:PHGUIuI5jhN-ZNUPp0ZFZnrd0jj1NfVD"
5) "recipes"
127.0.0.1:6379> hkeys recipes
1) "d070db03-3d64-4ff2-82d5-25bacf3ea785"
127.0.0.1:6379>
```

cache and ‘recipes’ exist.



DELETE http://localhost:3000/recipes/d070db03-3d64-4ff2-82d5-25bacf3ea785

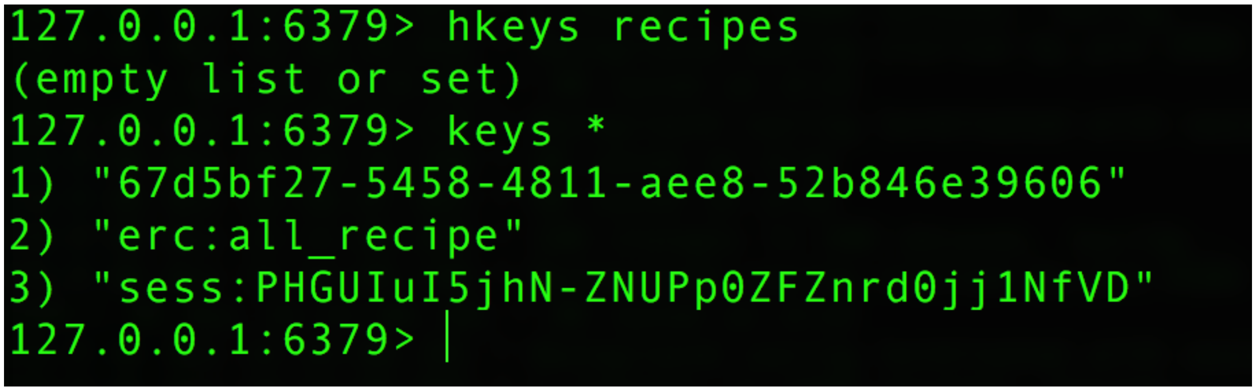
Headers (1)

key	value
Auth-Token	123

Status: 200 OK

```
"Recipe deleted"
```

Need provide ‘Auth-Token’ in headers.



```
127.0.0.1:6379> hkeys recipes
(empty list or set)
127.0.0.1:6379> keys *
1) "67d5bf27-5458-4811-aee8-52b846e39606"
2) "erc:all_recipe"
3) "sess:PHGUIuI5jhN-ZNUPp0ZFZnrd0jj1NfVD"
127.0.0.1:6379> |
```

cache and the recipe store in ‘recipes’ list be deleted.