

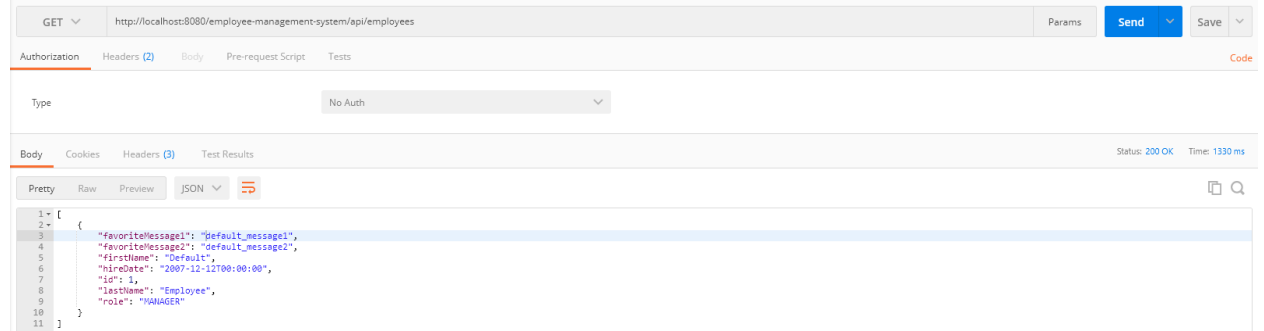
Testing Employee REST API using POSTMAN

1. Initial Request to get All Employees

URL: <http://localhost:8080/employee-management-system/api/employees>

Http Method: GET

Status: 200

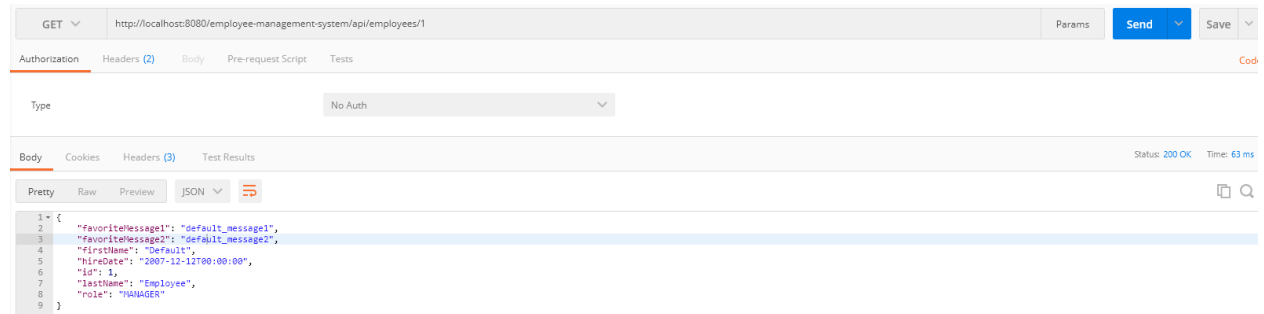


2. Get Employee by Valid Id

URL : <http://localhost:8080/employee-management-system/api/employees/1>

Http Method: GET

Status: 200

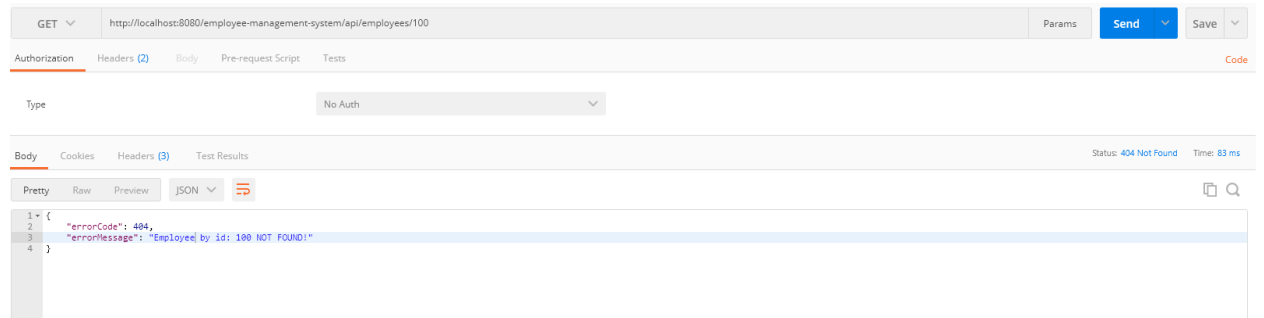


3. Get Employee by Id, but Id is Invalid

URL: <http://localhost:8080/employee-management-system/api/employees/100>

Http Method: GET

Status: 404



4. Add Employee. Input fields are First Name, Last Name, Hire Date and Role. 2 Favorite messages are added for the new employee. A Unique employee Id is generated.

URL: <http://localhost:8080/employee-management-system/api/employees>

Http Method: POST

Status: 201

Location Header generated: **location** → <http://localhost:8080/employee-management-system/api/employees/3687>

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

- Method:** POST
- URL:** <http://localhost:8080/employee-management-system/api/employees>
- Body:** JSON (application/json)

```
{
  "firstName": "Mark",
  "hireDate": "2006-12-31T00:00:00",
  "lastName": "Anthony",
  "role": "vp"
}
```
- Status:** 201 Created
- Time:** 2235 ms
- Body:** Pretty view of the response JSON:

```
{
  "favoriteMessage1": "There are only three ways to motivate people: money, fear, and hunger. Quote added from website - https://ron-swanson-quotes.herokuapp.com/v2/quotes",
  "favoriteMessage2": "Go confidently in the direction of your dreams. Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler. Quote added from website - https://quotes.rest/qod",
  "firstName": "Mark",
  "hireDate": "2006-12-31T00:00:00",
  "id": 3687,
  "lastName": "Anthony",
  "role": "vp"
}
```
- Headers:** 4 headers are listed (partially visible).

content-length → 486

content-type → application/json

date → Wed, 21 Aug 2019 17:47:56 GMT

location → <http://localhost:8080/employee-management-system/api/employees/3687>

Things to note:

Role in post message body is lowercase but in response is upper cased.

The 2 favorite Messages generated show the external endpoints used to generate them.

Employee Id is randomly generated unique id.

Access location header url with GET to retrieve the added employee

URL: <http://localhost:8080/employee-management-system/api/employees/3687>

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

- Method:** GET
- URL:** <http://localhost:8080/employee-management-system/api/employees/3687>
- Status:** 200 OK
- Time:** 66 ms
- Body:** Pretty view of the response JSON (identical to the POST response):

```
{
  "favoriteMessage1": "There are only three ways to motivate people: money, fear, and hunger. Quote added from website - https://ron-swanson-quotes.herokuapp.com/v2/quotes",
  "favoriteMessage2": "Go confidently in the direction of your dreams. Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler. Quote added from website - https://quotes.rest/qod",
  "firstName": "Mark",
  "hireDate": "2006-12-31T00:00:00",
  "id": 3687,
  "lastName": "Anthony",
  "role": "vp"
}
```

Current Employee Records:

GET http://localhost:8080/employee-management-system/api/employees

Authorization Headers (2) Body Pre-request Script Tests

Type No Auth

Body Cookies Headers (3) Test Results Status: 200 OK Time: 72 ms

Pretty Raw Preview JSON

```
1 [
2   {
3     "favoriteMessage1": "default_message1",
4     "favoriteMessage2": "default_message2",
5     "firstName": "Default",
6     "hireDate": "2007-12-12T00:00:00",
7     "id": 1,
8     "lastName": "Employee",
9     "role": "MANAGER"
10  },
11  {
12    "favoriteMessage1": "There are only three ways to motivate people: money, fear, and hunger. Quote added from website - https://ron-swanson-quotes.herokuapp.com/v2/quotes",
13    "favoriteMessage2": "Go confidently in the direction of your dreams. Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler. Quote added from website - https://quotes.rest/qod",
14    "firstName": "Mark",
15    "hireDate": "2006-12-31T00:00:00",
16    "id": 3607,
17    "lastName": "Anthony",
18    "role": "VP"
19  },
20  {
21    "favoriteMessage1": "When I eat, it is the food that is scared. Quote added from website - https://ron-swanson-quotes.herokuapp.com/v2/quotes",
22    "favoriteMessage2": "Go confidently in the direction of your dreams. Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler. Quote added from website - https://quotes.rest/qod",
23    "firstName": "Julia",
24    "hireDate": "2006-12-31T00:00:00",
25    "id": 3132,
26    "lastName": "Roberts",
27    "role": "CEO"
28  }
29 ]
```

Some of screenshots for error handling

1. Trying to add a second CEO

```
{
  "firstName": "Ben",
  "hireDate": "2006-12-31T00:00:00",
  "lastName": "Whitman",
  "role": "ceo"
}
```

Body Cookies Headers (4) Test Results

Pretty Raw Preview JSON

```
1 {
2   "errorCode": 400,
3   "errorMessage": "There can only be one CEO!"
4 }
```

2.

```
{
  "firstName": "Ben",
  "hireDate": "2026-12-31T00:00:00",
  "lastName": "Whitman",
  "role": "manager"
}
```

Body Cookies Headers (4) Test Results

Pretty Raw Preview JSON

```
1 {
2   "errorCode": 400,
3   "errorMessage": "Hire Date can't be a future date!"
4 }
```

5. Update an Employee Record

URL: <http://localhost:8080/employee-management-system/api/employees/1>

Http Method: PUT

Status: 200

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

- Method:** PUT
- URL:** `http://localhost:8080/employee-management-system/api/employees/1`
- Body:** A JSON object:

```
{  "firstName": "Default_Employee",  "hireDate": "2007-12-12T00:00:00",  "lastName": "Employee",  "role": "vp"}
```
- Response Body:** A JSON object:

```
{  "firstName": "Default_Employee",  "hireDate": "2007-12-12T00:00:00",  "id": 1,  "lastName": "Employee",  "role": "vp"}
```

Verify with GET

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

- Method:** GET
- URL:** `http://localhost:8080/employee-management-system/api/employees/1`
- Response Body:** A JSON object:

```
{  "firstName": "Default_Employee",  "hireDate": "2007-12-12T00:00:00",  "id": 1,  "lastName": "Employee",  "role": "vp"}
```

API will not update if employee id in the path is invalid

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

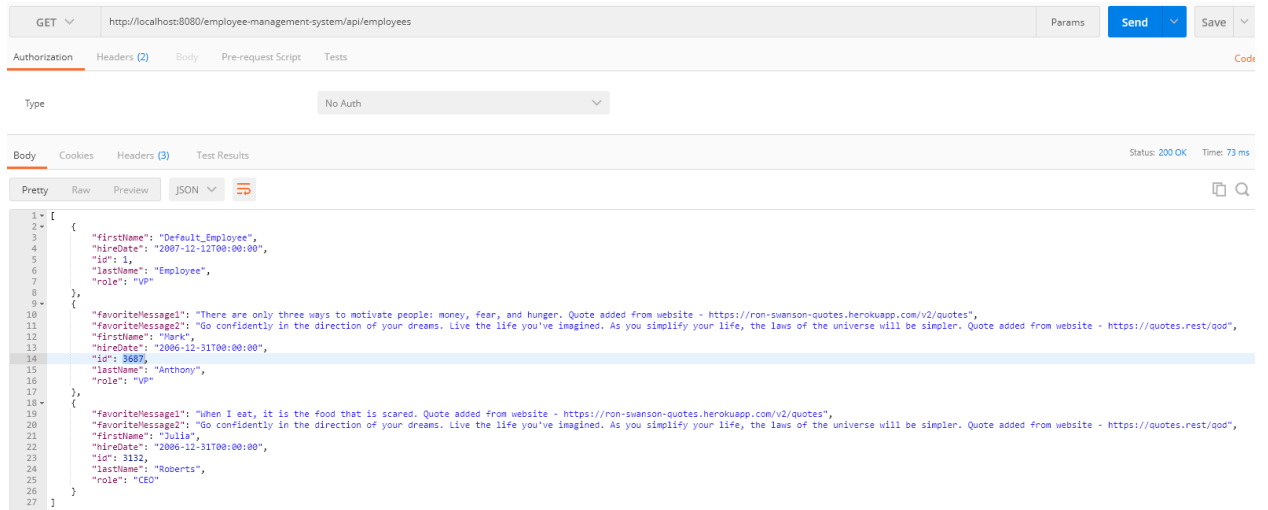
- Method:** PUT
- URL:** `http://localhost:8080/employee-management-system/api/employees/100`
- Body:** A JSON object:

```
{  "firstName": "Default_Employee",  "hireDate": "2007-12-12T00:00:00",  "lastName": "Employee",  "role": "vp"}
```
- Status:** 404 Not Found
- Response Body:** A JSON object:

```
{  "errorCode": 404,  "errorMessage": "Employee by id: 100 NOT FOUND!"}
```

6. Delete an Employee with an Employee Id

Before Delete, get all:



GET ⌵ http://localhost:8080/employee-management-system/api/employees Params Send Save ⌵

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

Type No Auth ⌵

Body Cookies Headers (3) Test Results Status: 200 OK Time: 73 ms

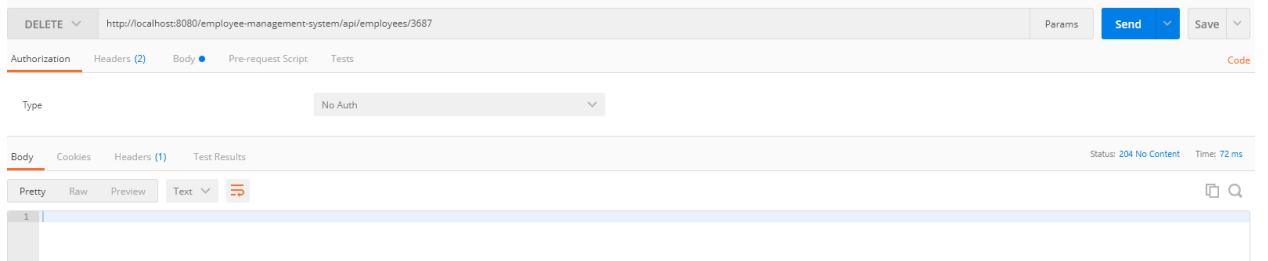
Pretty Raw Preview JSON ⌵ ⌵

```
1 [
2   {
3     "firstName": "Default_Employee",
4     "hireDate": "2007-12-12T00:00:00",
5     "id": 1,
6     "lastName": "Employee",
7     "role": "VP"
8   },
9   {
10    "favoriteMessage1": "There are only three ways to motivate people: money, fear, and hunger. Quote added from website - https://ron-swanson-quotes.herokuapp.com/v2/quotes",
11    "favoriteMessage2": "Go confidently in the direction of your dreams. Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler. Quote added from website - https://quotes.rest/qod",
12    "firstName": "Mark",
13    "hireDate": "2006-12-31T00:00:00",
14    "id": 3687,
15    "lastName": "Anthony",
16    "role": "VP"
17  },
18  {
19    "favoriteMessage1": "When I eat, it is the food that is scared. Quote added from website - https://ron-swanson-quotes.herokuapp.com/v2/quotes",
20    "favoriteMessage2": "Go confidently in the direction of your dreams. Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler. Quote added from website - https://quotes.rest/qod",
21    "firstName": "Julia",
22    "hireDate": "2006-12-31T00:00:00",
23    "id": 3132,
24    "lastName": "Roberts",
25    "role": "CEO"
26  }
27 ]
```

Delete URL: <http://localhost:8080/employee-management-system/api/employees/3687>

Http Method: DELETE

Status: 204



DELETE ⌵ http://localhost:8080/employee-management-system/api/employees/3687 Params Send Save ⌵

Authorization Headers (2) Body ● Pre-request Script Tests Code

Type No Auth ⌵

Body Cookies Headers (1) Test Results Status: 204 No Content Time: 72 ms

Pretty Raw Preview Text ⌵ ⌵

```
1 |
```

After DELETE, get all



GET ⌵ http://localhost:8080/employee-management-system/api/employees Params Send Save ⌵

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

Type No Auth ⌵

Body Cookies Headers (3) Test Results Status: 200 OK Time: 73 ms

Pretty Raw Preview JSON ⌵ ⌵

```
1 [
2   {
3     "firstName": "Default_Employee",
4     "hireDate": "2007-12-12T00:00:00",
5     "id": 1,
6     "lastName": "Employee",
7     "role": "VP"
8   },
9   {
10    "favoriteMessage1": "When I eat, it is the food that is scared. Quote added from website - https://ron-swanson-quotes.herokuapp.com/v2/quotes",
11    "favoriteMessage2": "Go confidently in the direction of your dreams. Live the life you've imagined. As you simplify your life, the laws of the universe will be simpler. Quote added from website - https://quotes.rest/qod",
12    "firstName": "Julia",
13    "hireDate": "2006-12-31T00:00:00",
14    "id": 3132,
15    "lastName": "Roberts",
16    "role": "CEO"
17  }
18 ]
```