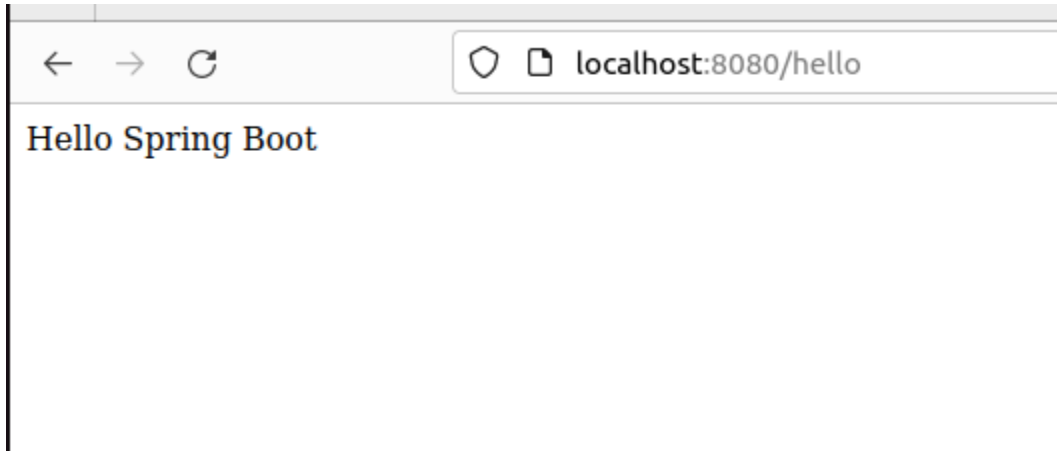


Restful API Part1

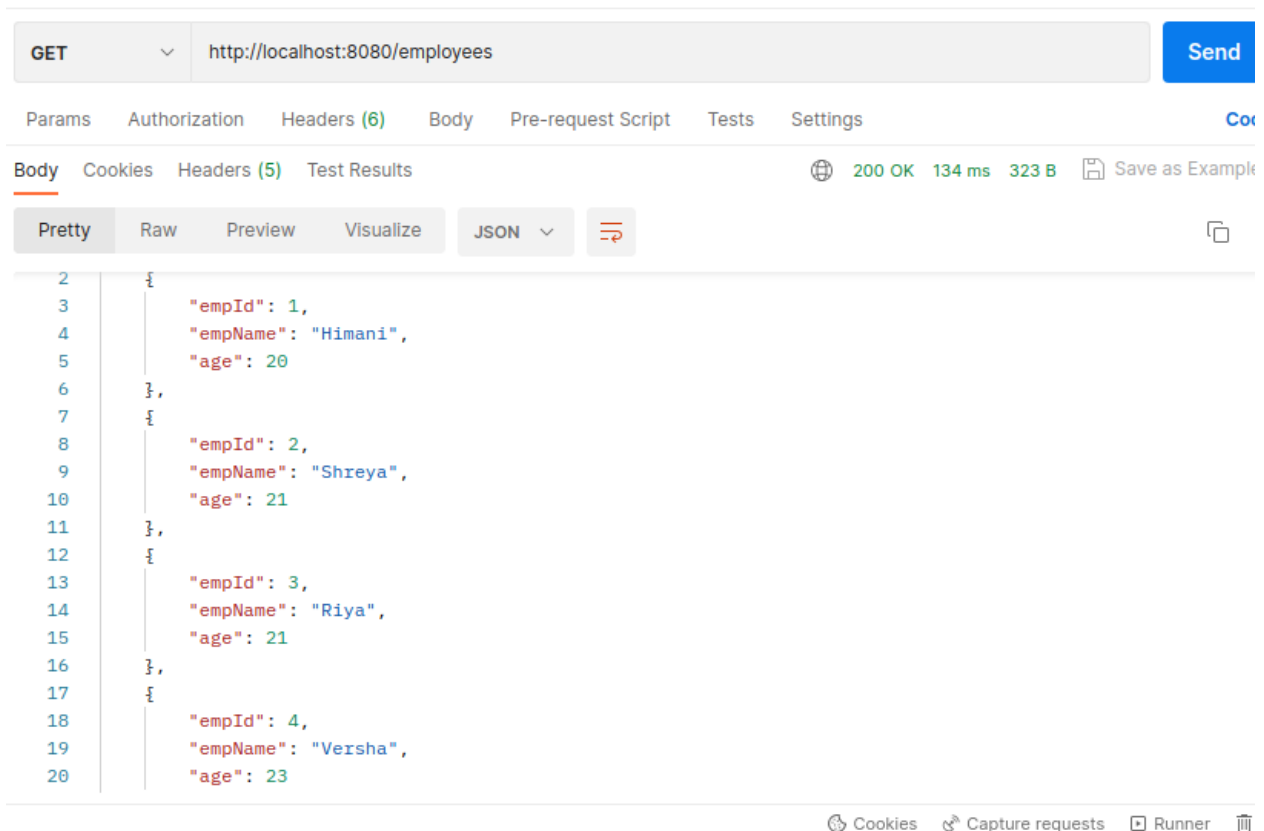
1.Create a simple RESTful service in Spring Boot which returns the Response "Welcome to spring boot".



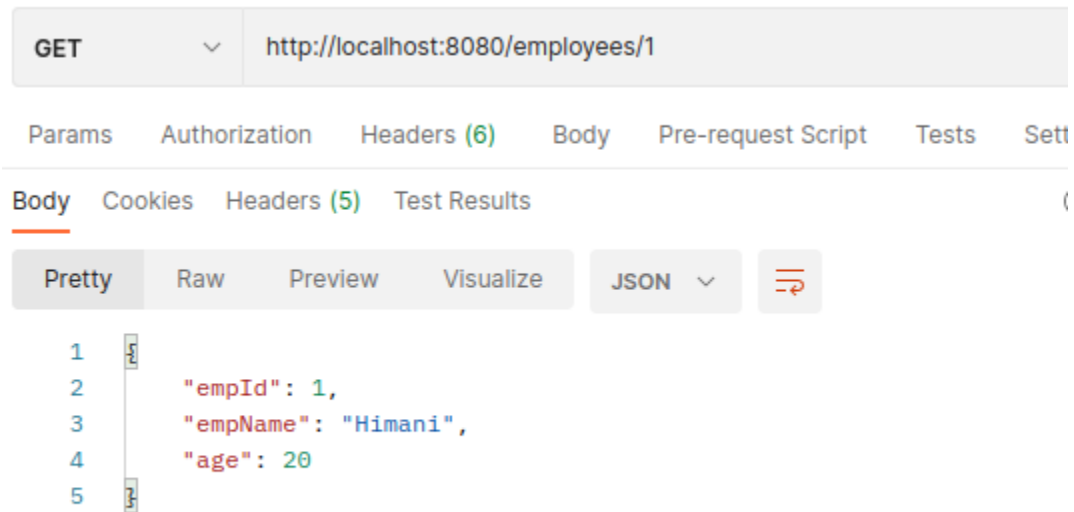
2. Create an Employee Bean(id, name, age) and service to perform different operations related to employee.

->Employee.java

3.Implement GET http request for Employee to get list of employees.



4. Implement GET http request using path variable to get one employee




5. Implement POST http request for Employee to create a new employee.


POST http://localhost:8080/employees

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▾

```
1 {
2   ...
3   ... "empName": "Harsh",
4   ... "age": 20
5 }
```

Body Cookies Headers (5) Test Results  200 OK 40 ms 20

Pretty Raw Preview Visualize **JSON** ▾ 

```
1 {
2   "empId": 5,
3   "empName": "Harsh",
4   "age": 20
5 }
```

6. Implement Exception Handling for resource not found.

GET http://localhost:8080/employees/64 Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL JSON Beautify

1

Body Cookies Headers (5) Test Results 404 Not Found 156 ms 264 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "timeStamp": "2023-04-02T11:05:58.419017324",
3   "message": "id-64",
4   "details": "uri=/employees/64"
5 }
```

7.Implement DELETE http request for Employee to delete employee

DELETE ▼ http://localhost:8080/employees/4

Params Authorization Headers (6) Body Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼

1

GET ▼ http://localhost:8080/employees Send ▼

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (5) Test Results 🌐 200 OK 6 ms 322 B 📄 Save as Example ⋮

Pretty Raw Preview Visualize **JSON** ▼ 🔍

```
4      "empName": "Himani",
5      "age": 20
6    },
7    {
8      "empId": 2,
9      "empName": "Shreya",
10     "age": 21
11   },
12   {
13     "empId": 3,
14     "empName": "Riya",
15     "age": 21
16   },
17   {
18     "empId": 5,
19     "empName": "Harsh",
20     "age": 20
21   }
```

8. Implement PUT http request for Employee to update employee

PUT http://localhost:8080/employees/1 Send

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL JSON Beautify

```
1 {
2   "empId": 1,
3   "empName": "Himani",
4   "age": 21
5 }
```

Body Cookies Headers (5) Test Results 200 OK 4 ms 203 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "empId": 1,
3   "empName": "Himani",
4   "age": 21
5 }
```

9. Apply validation while create a new employee using POST http Request.

POST http://localhost:8080/employees Send

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL JSON Beautify

```
1 {
2   "empName": "Priya",
3   "age": 16
4 }
5 }
```

Body Cookies Headers (4) Test Results 400 Bad Request 56 ms 265 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "timeStamp": "2023-04-02T11:30:22.616898911",
3   "message": "Age should be greater than 18 years.",
4   "details": "uri=/employees"
5 }
```

POST http://localhost:8080/employees Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ...
3   "empName": "P",
4   "age": 18
5 }
```

Body Cookies Headers (4) Test Results 400 Bad Request 6 ms 269 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "timestamp": "2023-04-02T11:31:38.671975465",
3   "message": "Name must be between 3 and 50 characters",
4   "details": "uri=/employees"
5 }
```

10. Configure actuator in your project to check the health of application and get the information about various beans configured in your application.

GET http://localhost:8080/actuator/health Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ...
3 }
```

Body Cookies Headers (5) Test Results 200 OK 9 ms 207 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": "UP"
3 }
```

GET http://localhost:8080/actuator/health Send

Params Authorization Headers (6) **Body** Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL JSON Beautify

1

Body Cookies Headers (5) Test Results 200 OK 9 ms 207 B Save as Example

Pretty Raw Preview Visualize JSON

```
1
2 "status": "UP"
3
```

http://localhost:8080/actuator/beans Save

GET http://localhost:8080/actuator/beans Send

Params Authorization Headers (6) **Body** Pre-request Script Tests Settings Cookies

Body Cookies Headers (5) Test Results 200 OK 154 ms 79.79 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1
2 "contexts": {
3   "application": {
4     "beans": {
5       "endpointCachingOperationInvokerAdvisor": {
6         "aliases": [],
7         "scope": "singleton",
8         "type": "org.springframework.boot.actuate.endpoint.invoker.cache.
          CachingOperationInvokerAdvisor",
9         "resource": "class path resource [org/springframework/boot/actuate/autoconfigure/
          endpoint/EndpointAutoConfiguration.class]",
10        "dependencies": [
11          "org.springframework.boot.actuate.autoconfigure.endpoint.
            EndpointAutoConfiguration",
12          "environment"
13        ]
14      },
15      "defaultServletHandlerMapping": {
```