

Assignment Delivery Note

Ajay Darshanala 26-Aug-20

Assignment – Build solution for maintaining customer details.

About Document: Describes the solution development and delivery high-level overview, below.

1.1 Screen shots : Swagger API Documentation, Spring boot startup console , postman - all endpoints , Junit rest results


1.2 Framework and Technologies

1.3 Web Services Info

1.4 GIT hub repository path clone : <https://github.com/ajaydarshanala/customerdata.git>

1.1 Screen shots: <http://localhost:8080/swagger-ui.html#/customer-data-controller>

localhost:8080/swagger-ui.html#/customer-data-controller

 **swagger** default (v2/api-docs) Explore

Customer Data Service Test Assignment Ajay Darshanala

Service is to maintain customer data

Created by Test Assignment
See more at <https://www.testassignment.com>
[Contact the developer](#)

customer-data-controller : Customer Data Controller

Show/Hide | List Operations | Expand Operations

POST	/customerdetails/add	Add a new customer
PUT	/customerdetails/address/{identifier}	Update the living address
GET	/customerdetails/getall	Retrieve all customers
GET	/customerdetails/search	Search customers by first name and/or last name
GET	/customerdetails/{identifier}	Retrieve one customer by it's identifier

customerdata - CustomerdataApplication [Spring Boot App] C:\Program Files\Java\Oracle - jdk-11.0.8_windows-x64_bin\oracle - jdk-11.0.8\bin\javaw.exe (Aug 26, 2020 1:41:47 AM)

01:41:50.504 [main] INFO com.tcs.cd.CustomerdataApplication - CustomerdataApplication Main invoked
01:41:50.816 [restartedMain] INFO com.tcs.cd.CustomerdataApplication - CustomerdataApplication Main invoked

Spring Boot (v2.3.0.RELEASE)

2020-08-26 01:41:51.886 INFO 7088 --- [restartedMain] com.tcs.cd.CustomerdataApplication : Starting CustomerdataApplication on VDT
2020-08-26 01:41:51.887 INFO 7088 --- [restartedMain] com.tcs.cd.CustomerdataApplication : No active profile set, falling back to
2020-08-26 01:41:51.942 INFO 7088 --- [restartedMain] e.DevToolsPropertyDefaultsPostProcessor : DevTools property defaults active! Set
2020-08-26 01:41:51.943 INFO 7088 --- [restartedMain] e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging cons
2020-08-26 01:41:53.706 INFO 7088 --- [restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositor
2020-08-26 01:41:53.797 INFO 7088 --- [restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scannin
2020-08-26 01:41:54.623 INFO 7088 --- [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (o
2020-08-26 01:41:54.642 INFO 7088 --- [restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2020-08-26 01:41:54.642 INFO 7088 --- [restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat
2020-08-26 01:41:54.855 INFO 7088 --- [restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplica
2020-08-26 01:41:54.855 INFO 7088 --- [restartedMain] o.s.web.context.ContextLoader : Root WebApplicationContext: initializat
2020-08-26 01:41:54.929 INFO 7088 --- [restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2020-08-26 01:41:55.134 INFO 7088 --- [restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2020-08-26 01:41:55.141 INFO 7088 --- [restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.

customerdetails = customerServiceImpl.updateDetails(identifier, addressdto);
} catch (InvalidCustomerData e) {

► Add customerdata

POST

localhost:8080/customerdetails/add

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

```
2  {
3    "firstname": "ERIK",
4    "lastname": "THOMSAN",
5    "age": 35,
6    "address": {
7      "houzenumber": "60-M",
8      "street": "KERKLAAN",
9      "postcode": "1011KB",
10     "city": "AMSTERDAM"
11   }
12 }
```

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

8

9

10

```
{
  "customerid": 2,
  "firstname": "ERIK",
  "lastname": "THOMSAN",
  "age": 35,
  "address": {
    "houzenumber": "60-M",
    "street": "KERKLAAN",
    "postcode": "1011KB",
    "city": "AMSTERDAM"
  }
}
```

► Retrieve one customer by it's identifier

GET

localhost:8080/customerdetails/2

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Query Params

KEY	VALUE	DESCRIPTION
-----	-------	-------------

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

8

9

10

11

12

```
{
  "customerid": 2,
  "firstname": "ERIK",
  "lastname": "THOMSAN",
  "age": 35,
  "address": {
    "houzenumber": "60-M",
    "street": "KERKLAAN",
    "postcode": "1011KB",
    "city": "AMSTERDAM"
  }
}
```

► Retrive All Customers

GET

localhost:8080/customerdetails/getall

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (5)Test Results

Status: 200 OK

PrettyRawPreviewVisualizeJSON

```
2  {
3      "customerid": 1,
4      "firstname": "TOM",
5      "lastname": "CRUSE",
6      "age": 70,
7      "address": {
8          "houzenumber": "60M",
9          "street": "LOSVEG",
10         "postcode": "2082JR",
11         "city": "VEGAS"
12     }
13 },
14 {
15     "customerid": 2,
16     "firstname": "ERIK",
17     "lastname": "THOMSAN",
18     "age": 35,
19     "address": {
20         "houzenumber": "60-M",
21         "street": "KERKLAAN",
22         "postcode": "1011KB",
23         "city": "AMSTERDAM"
24     }
25 }
```

► findByName

GET

localhost:8080/customerdetails/search?firstname=ERIK&&lastname=THOMSAN

Params●AuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (5)Test Results

Status: 200 OK

PrettyRawPreviewVisualizeJSON

```
1  [
2      {
3          "customerid": 2,
4          "firstname": "ERIK",
5          "lastname": "THOMSAN",
6          "age": 35,
7          "address": {
8              "houzenumber": "60-M",
9              "street": "KERKLAAN",
10             "postcode": "1011KB",
11             "city": "AMSTERDAM"
12         }
13     }
14 ]
```

► updateaddress


PUT localhost:8080/customerdetails/address/2

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

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

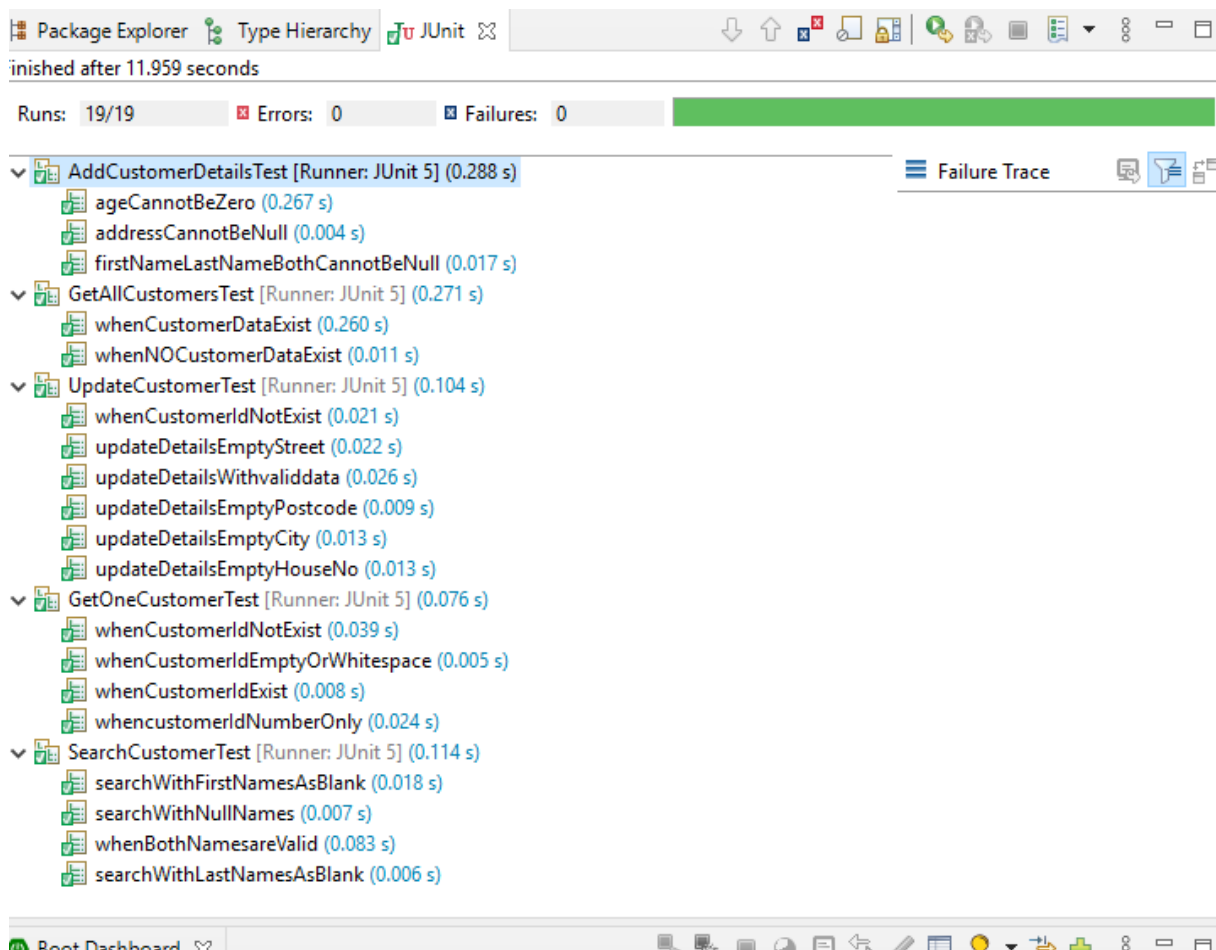
```
1 {
2   "houzenumber": "60-N",
3   "street": "KLOVENIERSBURGWAL",
4   "postcode": "1012KB",
5   "city": "AMSTERDAM"
6 }
```

Body Cookies Headers (5) Test Results  Status: 200 OK

Pretty Raw Preview Visualize JSON 

```
1 {
2   "customerid": 2,
3   "firstname": "ERIK",
4   "lastname": "THOMSAN",
5   "age": 35,
6   "address": {
7     "houzenumber": "60-N",
8     "street": "KLOVENIERSBURGWAL",
9     "postcode": "1012KB",
10    "city": "AMSTERDAM"
11  }
12 }
```

Unit Test cases :



1.2 Framework and Technologies:

- SpringBoot version 2.3.0 , Java11, Spring data jpa, DevTools
- In memory H2 database and console enabled (path : /h2)
- On application bootstrap , test data load using data.sql
- Junit test cases, Application properties Yaml
- Java - Optional, Lambda functions, foreach Iterable
- JavaX Persistence - Criteria builder, JPQL, Entity manager

1.3 Web Services Info:

- Webservice – RESTful, Request, Response payload : JSON Format
- Path Variables, Query Parameters
- HTTP Methods : GET, POST, PUT. HTTP Status codes : 2XX, 4XX, 5XX

1.4 GIT hub repository path clone : <https://github.com/ajaydarshanala/customerdata.git>