

Taller Cliente Servidor



Universidad
del Cauca

Vigilada Mineducación

Ingeniería de software II

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1. Descargar, instalar y correr la clase EchoServerExample que viene en el proyecto strategyserver.

Cliente

```
Run (EchoServerExample) x Run (TravelAgency-Client) x
cd C:\Users\User\Documents\Universidad\Ingeniería de Software II\Segundo corte\client-server-evolution-main\TravelAgency-Client
Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of dependency projects (with compile on save turned on) will be used
Scanning for projects...

-----< co.unicauca.agencia:TravelAgency-Client >-----
Building TravelAgency-Client 1.0-SNAPSHOT
-----[ jar ]-----

--- exec-maven-plugin:1.5.0:exec (default-cli) @ TravelAgency-Client ---
{"resource":"customer","action":"get","parameters":[{"name":"id","value":"98000001"}]}
jun. 14, 2022 4:36:09 P.M. co.unicauca.travelagency.client.infra.TravelAgencySocket connect
INFO: Socket establecido
jun. 14, 2022 4:36:09 P.M. co.unicauca.travelagency.client.infra.TravelAgencySocket sendRequest
INFO: Lo que se le envia al: ({"resource":"customer","action":"get","parameters":[{"name":"id","value":"98000001"}]})
jun. 14, 2022 4:36:09 P.M. co.unicauca.travelagency.client.infra.TravelAgencySocket sendRequest
INFO: Lo que se lee del servidor: ({"resource":"customer","action":"get","parameters":[{"name":"id","value":"98000001"}]})
jun. 14, 2022 4:36:09 P.M. co.unicauca.travelagency.client.access.CustomerAccessImplSockets findCustomer
INFO: Lo que va en el JSon: ({"resource":"customer","action":"get","parameters":[{"name":"id","value":"98000001"}]})
```

Servidor

```
Run (EchoServerExample) x Run (TravelAgency-Client) x
cd C:\Users\User\Documents\Universidad\Ingeniería de Software II\Segundo corte\client-server-evolution-main\TravelAgency-Client
Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of dependency projects (with compile on save turned on) will be used
Scanning for projects...

-----< co.unicauca:strategyserver >-----
Building strategyserver 1.0
-----[ jar ]-----

--- exec-maven-plugin:3.0.0:exec (default-cli) @ strategyserver ---
jun. 14, 2022 4:35:50 P.M. co.unicauca.strategyserver.infra.ServerSocketMultiThread openPort
INFO: Servidor iniciado, escuchando por el puerto 5.000
En servidor multihilo esta espera
jun. 14, 2022 4:36:09 P.M. co.unicauca.strategyserver.infra.ServerSocketMultiThread waitToClient
INFO: Socket conectado
En servidor multihilo esta espera
|
```

2. Descargar, instalar y correr el AgencyTravelServer como servidor tcp/ip y el AgencyTravel-Client (infra.tcpip).

Cliente

```
Run (TravelAgencyServer) x Run (TravelAgency-Client) x
cd C:\Users\User\Documents\Universidad\Ingeniería de Software II\Segundo corte\client-server-evolution-main\TravelAgency-Client; "JAVA_HOME=C:\Program Files\Java\jdk-11.0.2\bin"
Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of dependency projects (with compile on save turned on) will be used
Scanning for projects...

-----< co.unicauca.agencia:TravelAgency-Client >-----
Building TravelAgency-Client 1.0-SNAPSHOT
-----[ jar ]-----

--- exec-maven-plugin:1.5.0:exec (default-cli) @ TravelAgency-Client ---
{"resource":"customer","action":"get","parameters":[{"name":"id","value":"98000001"}]}
jun. 14, 2022 4:38:37 P.M. co.unicauca.travelagency.client.infra.TravelAgencySocket connect
INFO: Socket establecido
jun. 14, 2022 4:38:37 P.M. co.unicauca.travelagency.client.infra.TravelAgencySocket sendRequest
INFO: Lo que se le envia al: ({"resource":"customer","action":"get","parameters":[{"name":"id","value":"98000001"}]})
jun. 14, 2022 4:38:38 P.M. co.unicauca.travelagency.client.infra.TravelAgencySocket sendRequest
INFO: Lo que se lee del servidor: ({"id":"98000001","firstName":"Andrea","lastName":"Sanchez","address":"Calle 14 No 11-12 Popayan","mobile":"3145878752","email":"andrea.sanchez@unicauca.edu.co"})
jun. 14, 2022 4:38:38 P.M. co.unicauca.travelagency.client.access.CustomerAccessImplSockets findCustomer
INFO: Lo que va en el JSon: ({"id":"98000001","firstName":"Andrea","lastName":"Sanchez","address":"Calle 14 No 11-12 Popayan","mobile":"3145878752","email":"andrea.sanchez@unicauca.edu.co"})
```

Servidor

```
Run (TravelAgencyServer) x Run (TravelAgency-Client) x
cd C:\Users\User\Documents\Universidad\Ingeniería de Software II\Segundo corte\client-server-evolut
Running NetBeans Compile On Save execution. Phase execution is skipped and output directories of de
Scanning for projects...

-----< co.unicauca.agencia.servidor:TravelAgency-Server >-----
Building TravelAgency-Server 1.0-SNAPSHOT
-----[ jar ]-----

--- exec-maven-plugin:3.0.0:exec (default-cli) @ TravelAgency-Server ---
Ingrese el puerto de escucha
5000
jun. 14, 2022 4:38:20 P.M. co.unicauca.strategyserver.infra.ServerSocketMultiThread openPort
INFO: Servidor iniciado, escuchando por el puerto 5.000
En servidor multihilo esta espera
jun. 14, 2022 4:38:37 P.M. co.unicauca.strategyserver.infra.ServerSocketMultiThread waitToClient
INFO: Socket conectado
En servidor multihilo esta espera
|
```

Interfaz

Agencia de viajes

Opciones Informes Configuración Ayuda (Invitado)

Consulta de Clientes

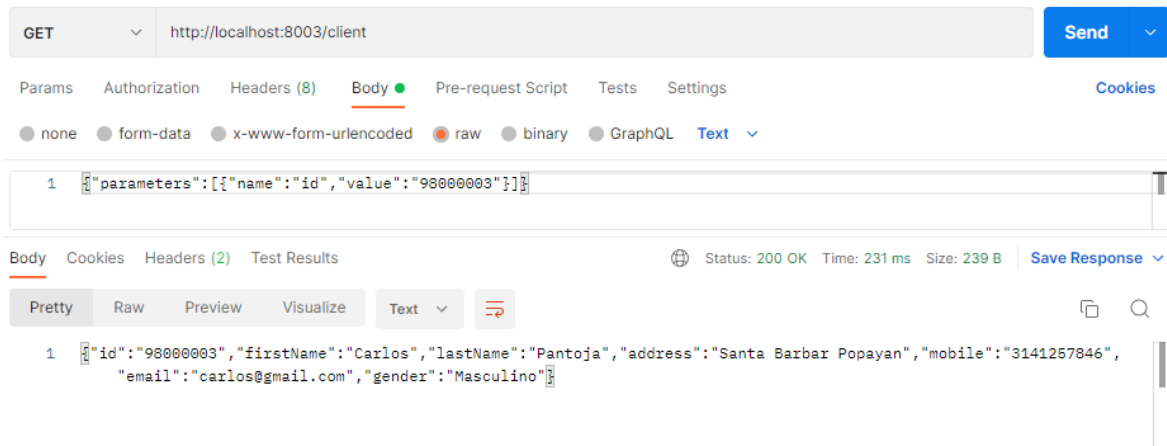
Este ejercicio aplica el patrón cliente/servidor.
La aplicación cliente se conecta al servidor mediante Sockets.
El servidor devuelve el objeto Cliente consultado en formato JSON.
En el backend las cédulas desde 98000001 hasta 98000010.

Número de identificación:

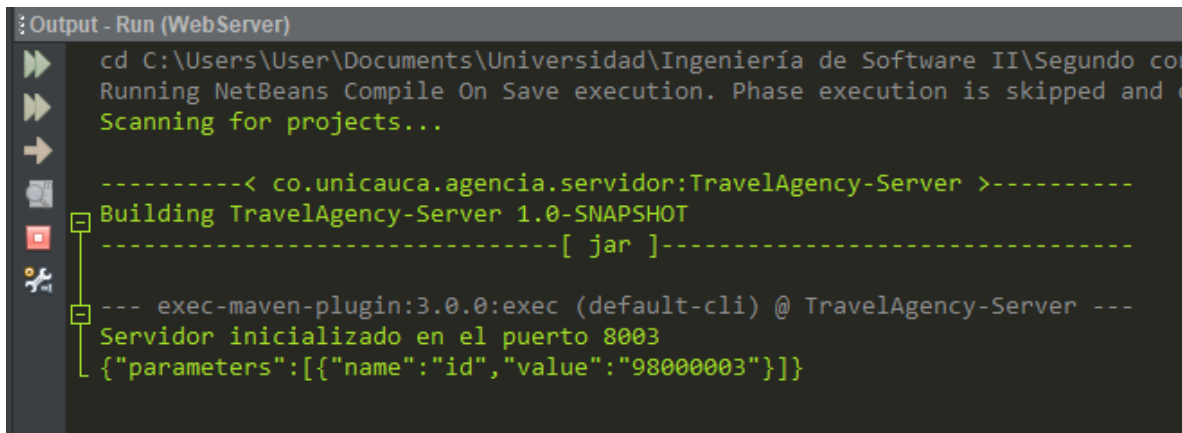
*Nombres:	<input type="text" value="Andrea"/>
*Apellidos:	<input type="text" value="Sanchez"/>
Dirección:	<input type="text" value="Calle 14 No 11-12 Popayan"/>
Celular:	<input type="text" value="3145878752"/>
Email:	<input type="text" value="andrea@hotmail.com"/>
*Sexo (M, F):	<input type="text" value="Femenino"/>

3. Correr el Web Server(infra.web) que vienen en el mismo proyecto AgencyTravelServer. Usar un cliente postman para hacer la consulta, recuerden que el protocolo cambió y ahora sólo van los parámetros.

Cliente



Servidor



4. Realizar el taller de la API Rest y probar las consultas a través de postman o un Jersey Client.

Listando todos los productos

pruebas / 1 servicio

GET http://localhost:8080/Simple-API-REST/product-service/products/ 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

Body Cookies Headers (5) Test Results Status: 200 OK Time: 434 ms Size: 392 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 1,
4     "name": "Tv samsung",
5     "price": 200000.0
6   },
7   {
8     "id": 2,
9     "name": "Tv lg",
10    "price": 300000.0
11  },
12  {
13    "id": 1,
14    "name": "Tablet asus RESD-TD-34",
15    "price": 400000.0
16  }
17 }
```

Cookie Capture requests Postman Runner Trash

Listando el producto con id = 1

pruebas / 2 servicio

GET http://localhost:8080/Simple-API-REST/product-service/products/1 Send

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

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (5) Test Results Status: 200 OK Time: 24 ms Size: 290 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 1,
3   "name": "Tv samsung",
4   "price": 200000.0
5 }
```

Creando un nuevo producto

pruebas / 3 servicio

Save

POST http://localhost:8080/Simple-API-REST/product-service/products/ 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   "id": 5,
3   "name": "PS Vita",
4   "price": 400000
}
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 43 ms Size: 294 B Save Response

Pretty Raw Preview Visualize Text

```
1 {"ok": "true", "mensaje": "Producto creado", "errores": ""}
```

Listando todos los productos para visualizar al que se creó

pruebas / 1 servicio

Save

GET http://localhost:8080/Simple-API-REST/product-service/products/ 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 Status: 200 OK Time: 16 ms Size: 435 B Save Response



Pretty Raw Preview Visualize JSON

```
7 {
8   "id": 2,
9   "name": "Tv lg",
10  "price": 300000.0
11 },
12 {
13   "id": 1,
14   "name": "Tablet asus RESD-TD-34",
15   "price": 400000.0
16 },
17 {
18   "id": 5,
19   "name": "PS Vita",
20   "price": 400000.0
21 }
22 }
```

Eliminando el producto con id = 2

pruebas / 4 servicio  


Save    




DELETE  http://localhost:8080/Simple-API-REST/product-service/products/2 Send 

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

Query Params







	KEY	VALUE	DESCRIPTION	...	Bulk Edit
	Key	Value	Description		





Body Cookies Headers (5) Test Results Status: 200 OK Time: 19 ms Size: 295 B Save Response 



Pretty Raw Preview Visualize Text   

```
1 [{"ok": "true", "mensaje": "Producto borrado", "errores": ""}]
```


Listando todos los productos para ver si se eliminó

 Overview  GET 1 servicio POST Crear DEL Eliminar  pruebas   No Environment 


Punto 4 / 1 servicio Save    




GET  http://localhost:8080/Simple-API-REST/product-service/products/ 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 Status: 200 OK Time: 20 ms Size: 394 B Save Response 

Pretty Raw Preview Visualize JSON   

```
2 {
3   "id": 1,
4   "name": "Tv samsung",
5   "price": 200000.0
6 },
7 {
8   "id": 1,
9   "name": "Tablet asus RESD-TD-34",
10  "price": 400000.0
11 },
12 {
13   "id": 5,
14   "name": "PS Vita",
15   "price": 400000.0
16 }
```

Editando un producto

pruebas / 5 servicio

PUT http://localhost:8080/Simple-API-REST/product-service/products/ 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   "id": 5,
3   "name": "PSP",
4   "price": 250000
5 }
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 30 ms Size: 298 B Save Response

Pretty Raw Preview Visualize Text

```
1 {"ok":true,"mensaje":"Producto modificado","errores":""}
```

Listando los productos para ver si se actualizó el producto editado

pruebas / 1 servicio

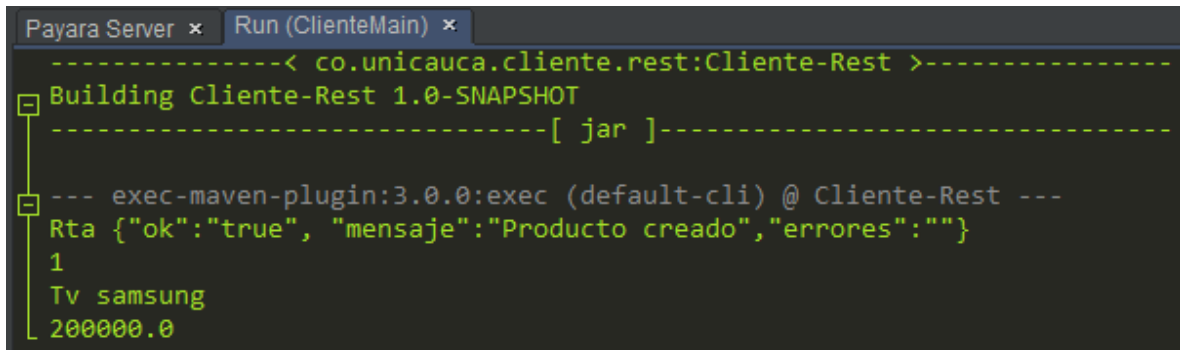
GET http://localhost:8080/Simple-API-REST/product-service/products/ Send

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

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

```
1 {
2   {
3     "id": 2,
4     "name": "Tv lg",
5     "price": 300000.0
6   },
7   {
8     "id": 1,
9     "name": "Tablet asus RESD-TD-34",
10    "price": 400000.0
11  },
12  {
13    "id": 5,
14    "name": "PSP",
15    "price": 250000.0
16  }
17 }
```

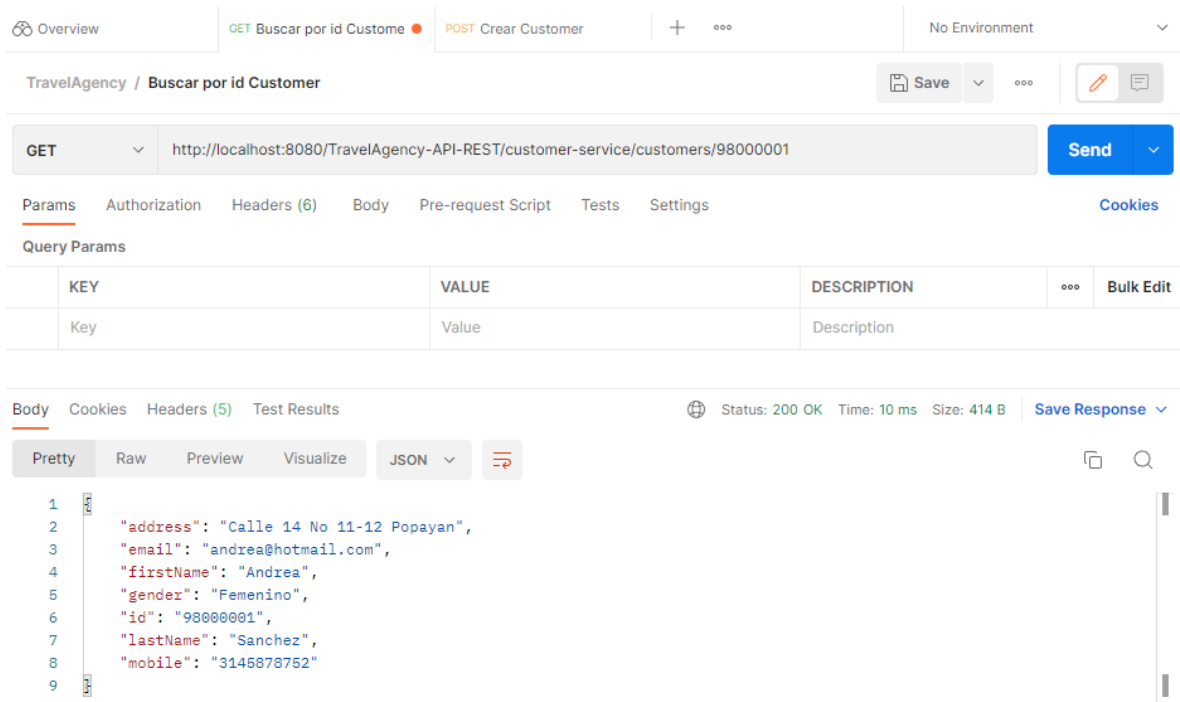

Mediante un JerseyClient



```
Payara Server x Run (ClienteMain) x
-----< co.unicauca.cliente.rest:Cliente-Rest >-----
Building Cliente-Rest 1.0-SNAPSHOT
-----[ jar ]-----
--- exec-maven-plugin:3.0.0:exec (default-cli) @ Cliente-Rest ---
Rta {\"ok\": \"true\", \"mensaje\": \"Producto creado\", \"errores\": \"\"}
1
Tv samsung
200000.0
```

5. Hacer una API Rest para el AgencyTravelServer. Probarla desde un Jersey Client o a través de posman.

Buscando un cliente



Overview GET Buscar por id Custome POST Crear Customer + ... No Environment

TravelAgency / Buscar por id Customer Save ...

GET http://localhost:8080/TravelAgency-API-REST/customer-service/customers/98000001 Send

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

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results Status: 200 OK Time: 10 ms Size: 414 B Save Response

Pretty Raw Preview Visualize JSON ...

```
1 {
2   "address": "Calle 14 No 11-12 Popayan",
3   "email": "andrea@hotmail.com",
4   "firstName": "Andrea",
5   "gender": "Femenino",
6   "id": "98000001",
7   "lastName": "Sanchez",
8   "mobile": "3145878752"
9 }
```

Creando un nuevo cliente

Overview

GET Buscar por id Customer

POST Crear Customer

+

...

No Environment

TravelAgency / Crear Customer

Save

...

Send

POST

http://localhost:8080/TravelAgency-API-REST/customer-service/customers/

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   "id": "98000012",
3   "firstName": "Juan",
4   "lastName": "Hernandez",
5   "address": "Calle 13 No 12-12 Popayan",
6   "mobile": "3104482055",
7   "email": "juan@gmail.com",
8   "gender": "Masculino"
9 }
```

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Time: 15 ms

Size: 293 B

Save Response

Pretty

Raw

Preview

Visualize

Text

1 [{"ok": "true", "mensaje": "Cliente creado", "errores": ""}]

Buscando el nuevo cliente

Overview

GET Buscar por id Customer

POST Crear Customer

+

...

No Environment

TravelAgency / Buscar por id Customer

Save

...

Send

GET

http://localhost:8080/TravelAgency-API-REST/customer-service/customers/98000012

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Time: 16 ms

Size: 411 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

1 [{"address": "Calle 13 No 12-12 Popayan",
2 "email": "juan@gmail.com",
3 "firstName": "Juan",
4 "gender": "Masculino",
5 "id": "98000012",
6 "lastName": "Hernandez",
7 "mobile": "3104482055"}]