**Starbucks-orders-dynamodb project**

**This document contains steps to manage order REST APIs, steps to start local dynamodb, create order table and dynamodb commands to show the table items, delete table etc.**

**The second part of this document walks through the REST API implementation;**

**showall – display all the orders ( GET API)**

**saveorder – create an order ( POST API)**

**orderbyid – show a specific order based on id ( GET API)**

**deletebyid – delete a specific order based on id ( DELETE API)**

**deleteall – delete all the orders in the order dynamodb table ( DELETE API)**

**How to start dynamodb:**

go to the folder were local dynamodb is installed and run this command:

java -Djava.library.path=./DynamoDBLocal\_lib -jar DynamoDBLocal.jar -sharedDb

How to see the tables in the dynamodb:

aws dynamodb list-tables --endpoint-url http://localhost:8000

**How to create the Order table**

aws dynamodb create-table --table-name Order --attribute-definitions AttributeName=Id,AttributeType=S --key-schema AttributeName=Id,KeyType=HASH --provisioned-throughput ReadCapacityUnits=1,WriteCapacityUnits=1 --endpoint-url http://localhost:8000

**how to delete table in the dynamodb:**

aws dynamodb delete-table --table-name Order --endpoint-url <http://localhost:8000>

**how to display items in the dynamodb table**

aws dynamodb scan --table-name Order --endpoint-url <http://localhost:8000>

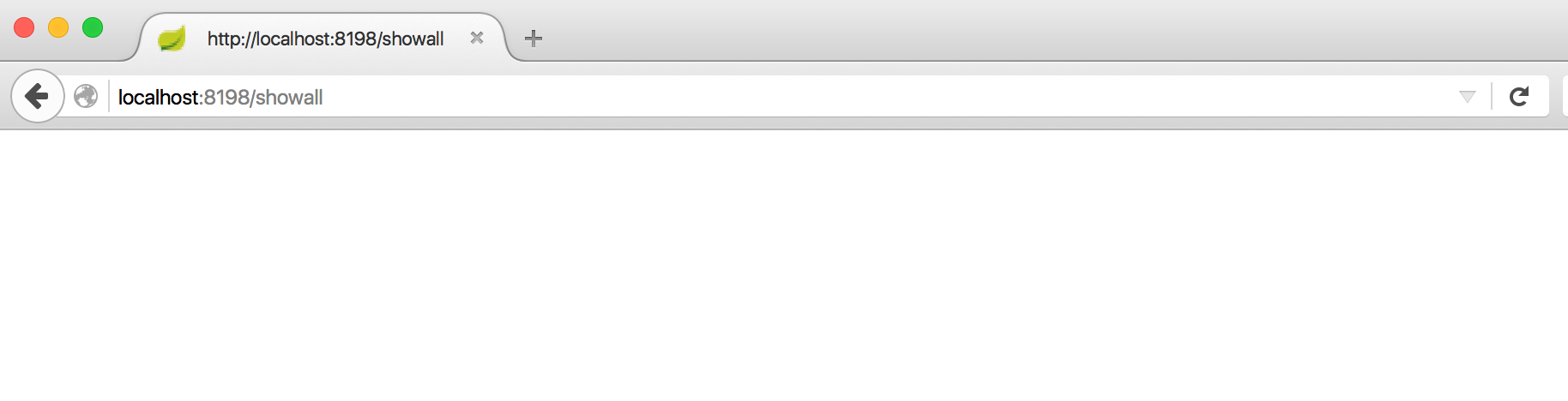
**Menu Chart Used**

|  |  |  |
| --- | --- | --- |
| **Drink** | **Size** | **Cost($)** |
| Mocha | Small | 5.00 |
|  | Medium | 6.00 |
|  | Large | 8.00 |
| Cappuchino | Small | 4.00 |
|  | Medium | 5.00 |
|  | Large | 6.00 |
| Latte | Small | 3.00 |
|  | Medium | 4.00 |
|  | Large | 5.00 |
| MasalaChai | Small | 3.00 |
|  | Medium | 4.00 |
|  | Large | 5.00 |

1. **ShowAll - used to display all the entries in the order table**

[**http://localhost:8198/showall**](http://localhost:8198/showall)

**At present as we started the project afresh, we donot have any entries. So the show all screen is blank as shown below:**

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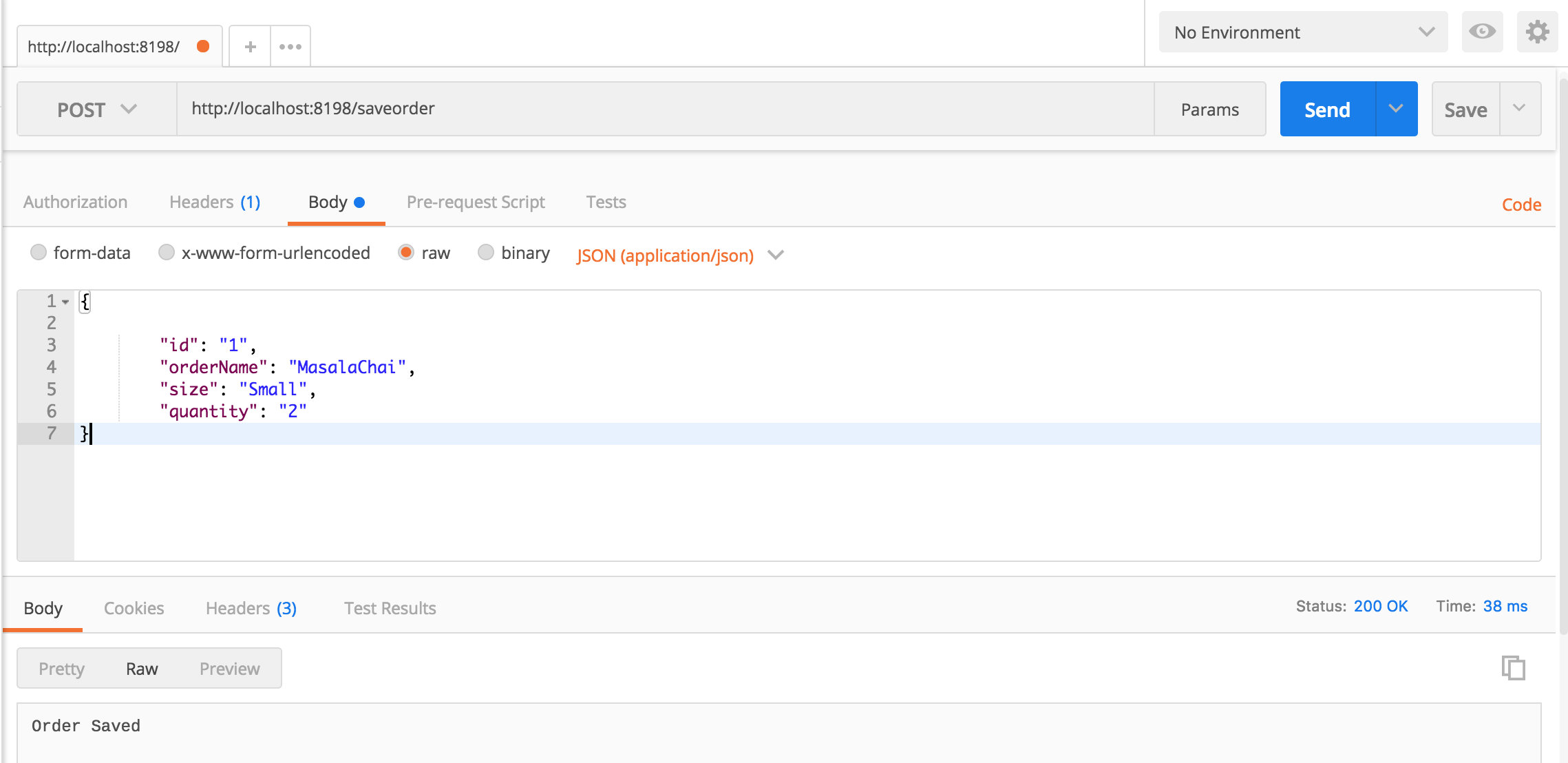
1. **Save orders**

**This api call uses HTTP POST to save the order. It also calculates the cost of the order and saves it in the order table.**

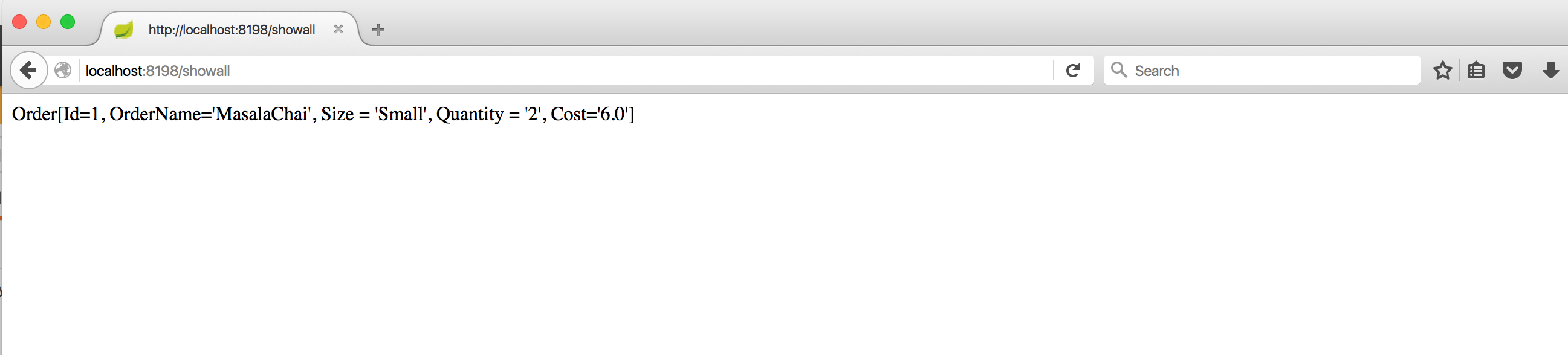
**I used Postman to create/save the order. Please find the screenshot below:**

**We are using POST API to add an ordername MasalaChai of size Small and quantity 2.**

**So based on the Menu chart the, cost is 2 \* $3 = 6.0 as show in the showall below:**

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**Now when we do showall, we will see this order placed as shown below:**

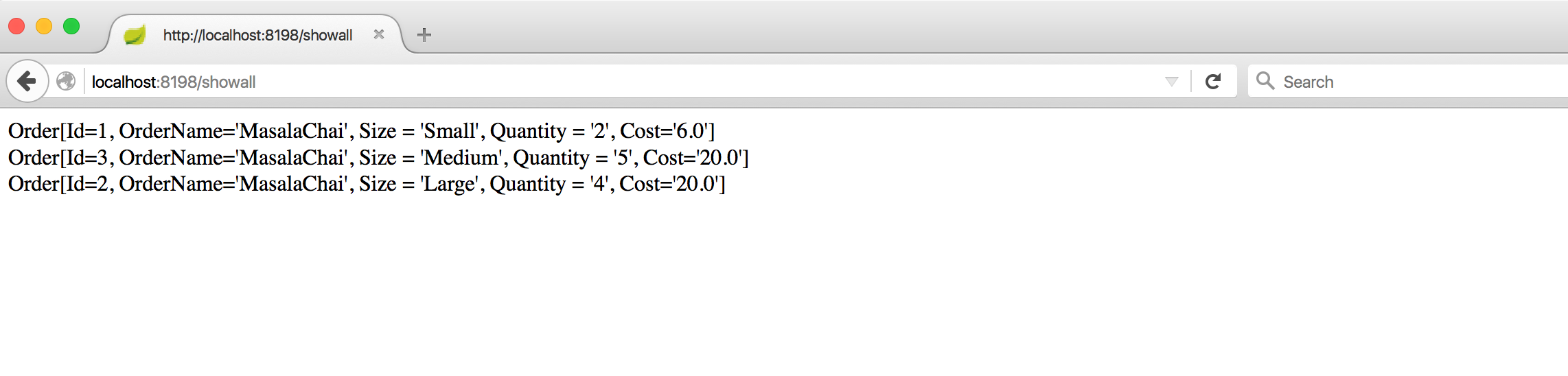
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Lets add a couple of more orders:

MasalaChai, Large, 4

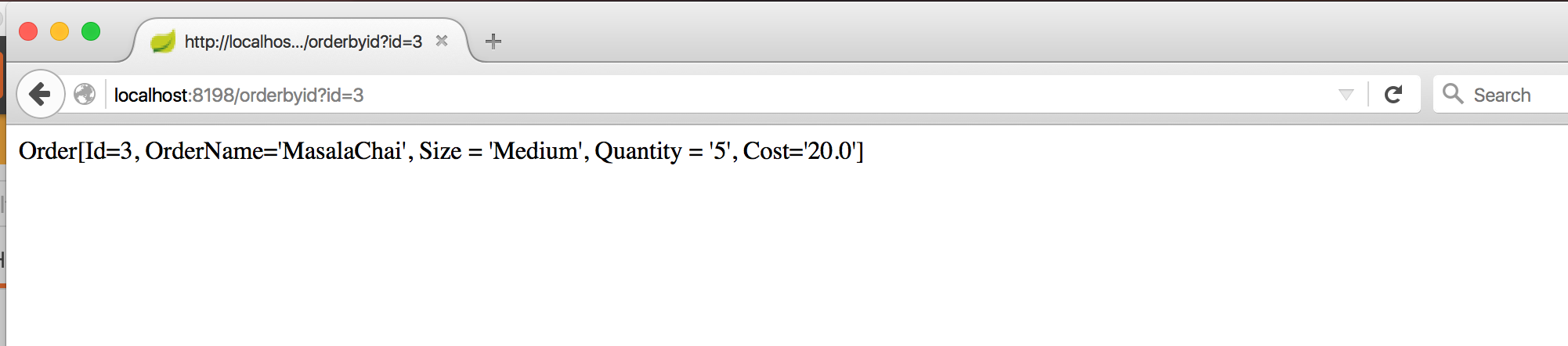
MasalaChai, Medium, 5

Now the showall displays three orders as shown below:



Now, we can show an order based on Order Id. Lets only show the Order Id 3.

<http://localhost:8198/orderbyid?id=3>

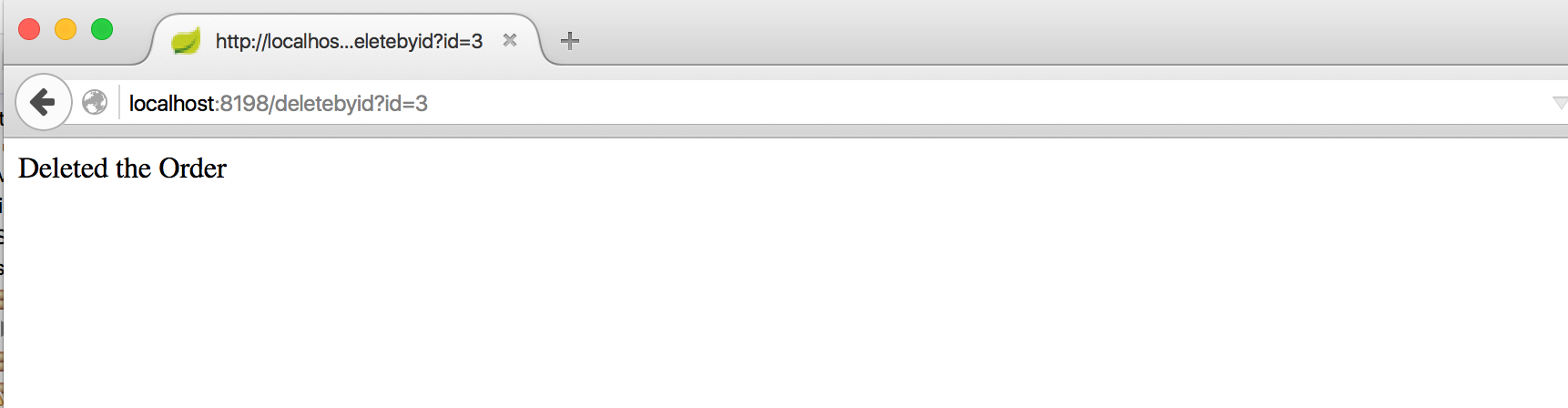


1. **Delete by ID**

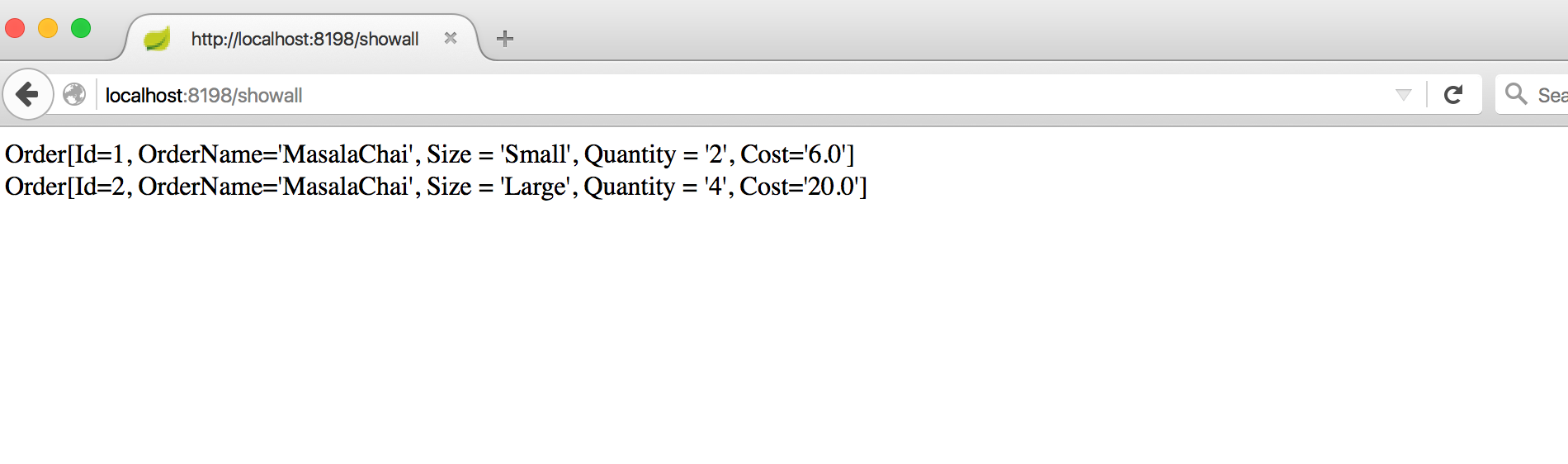
**We can also delete the order by id as shown below:**

**As we can see below, we deleted the order 3.**

[**http://localhost:8198/deletebyid?id=3**](http://localhost:8198/deletebyid?id=3)

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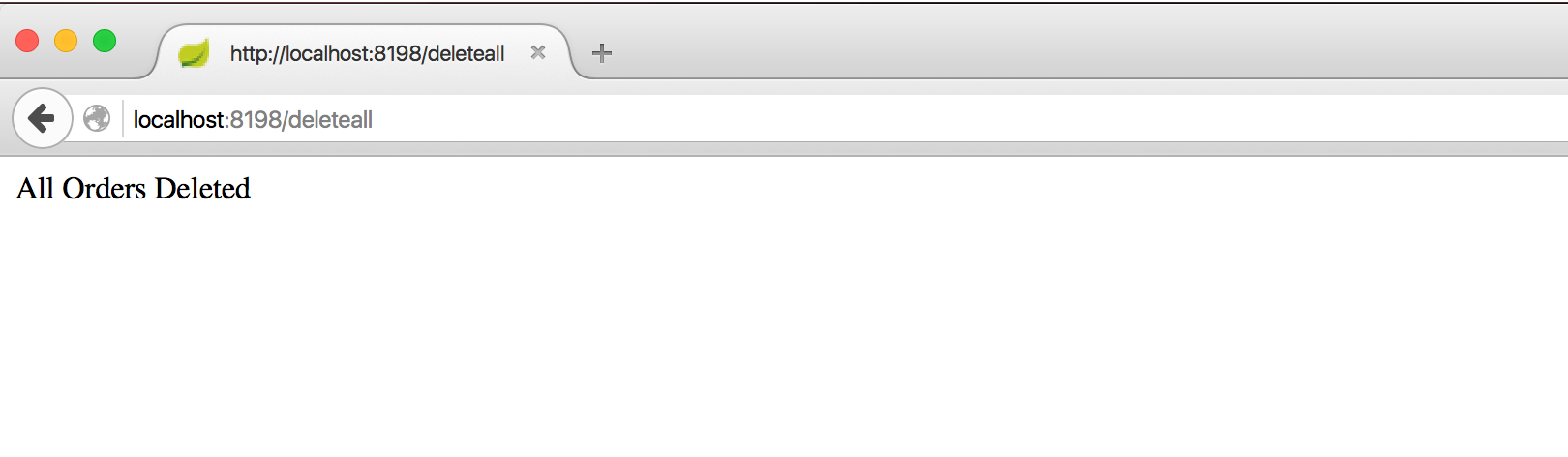
If we do a showall now, we can only see order 1 and order 2 as order 3 is deleted.



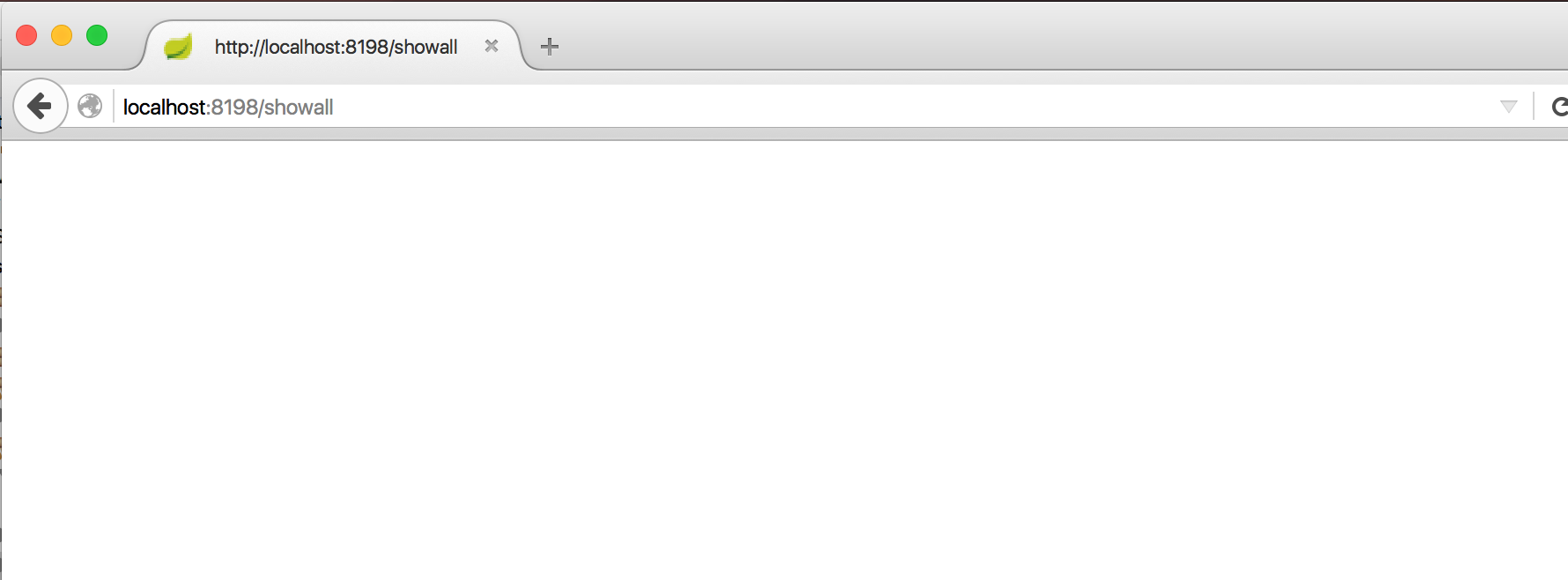
1. **Delete All Orders.**

We can delete all the orders using this REST API.

<http://localhost:8198/deleteall>



Now if we do show all, we will see an empty screen as shown below:



**References:**

**I used the following references for understanding the dynamodb connection adapters and understanding the REST API implementation.**

[**https://github.com/derjust/spring-data-dynamodb/tree/master/src/main/java/org/socialsignin/spring/data/dynamodb**](https://github.com/derjust/spring-data-dynamodb/tree/master/src/main/java/org/socialsignin/spring/data/dynamodb)