IOCO Assessment

Invoice-API

Testing Document

This is just a document, illustrating simple steps to test the functionality of my Invoice-API, A Spring Boot REST API application. We will be using Postman to achieve this

Step 1

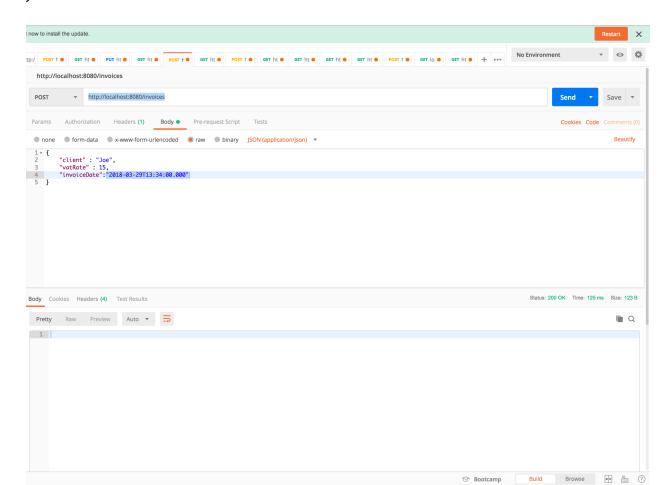
Create an Invoice:

Using our REST End Point:

Method: POST

URL: http://localhost:8080/invoices

```
{
        "client" : "Joe"
        "vatRate: 15
        "invoiceDate": "2018-03-29T13:34:00.000"
}
```



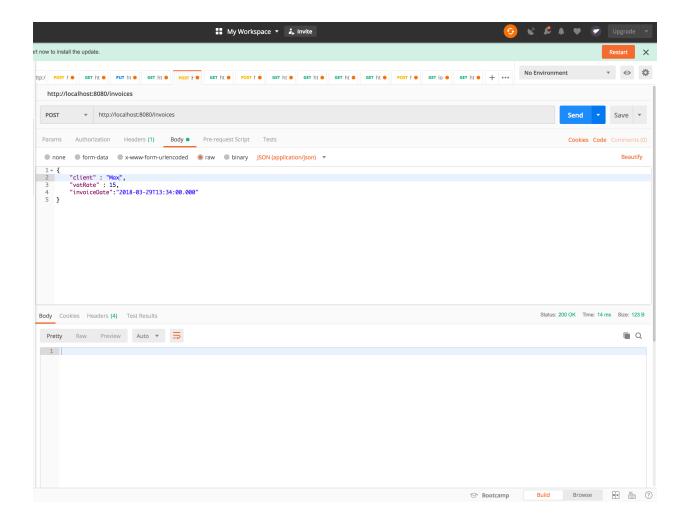
Create a 2nd Invoice (Same as Step1)

Using our REST End Point:

Method: POST

URL: http://localhost:8080/invoices

```
{
        "client" : "Max"
        "vatRate: 15
        "invoiceDate": "2018-03-29T13:34:00.000"
}
```



Check if our Invoices are created

Using our REST End Point:

Method: GET

URL: http://localhost:8080/invoices

As done in the screen shot below:

```
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```

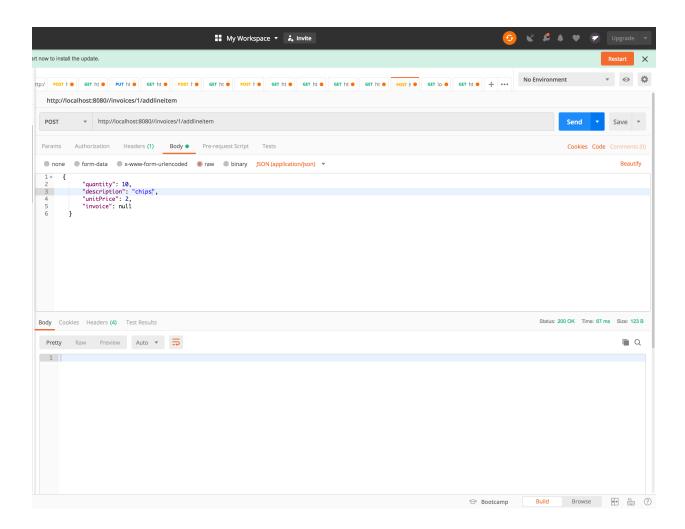
Add a Line Item to Invoice - id= 1 Client = Joe

Using our REST End Point:

Method: POST

URL: http://localhost:8080//invoices/{invoiceId}/addlineitem

```
{
    "quantity": 10,
    "description": "chips",
    "unitPrice": 2,
    "invoice": null
}
```

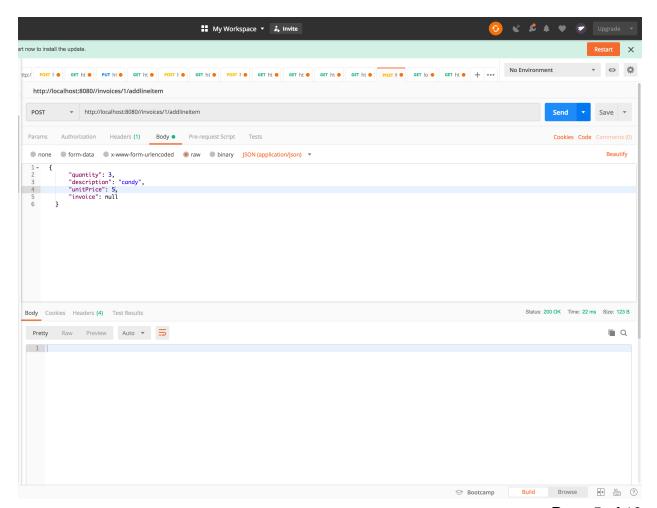


Add another Line Item to Invoice - id= 1 Client = Joe (same as Step 4)

Using our REST End Point: Method: POST

URL: http://localhost:8080//invoices/{invoiceId}/addlineitem

```
{
    "quantity": 10,
    "description": "chips",
    "unitPrice": 2,
    "invoice": null
}
```



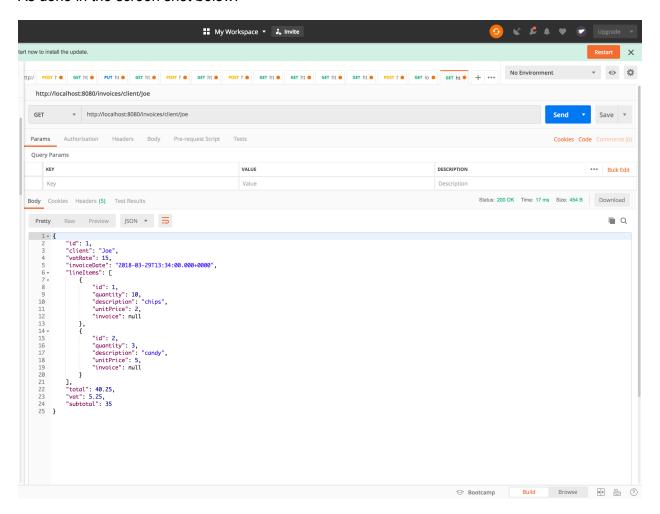
View Invoice - id = 1 Client = Joe To see our LineItems added

Using our REST End Point:

Method: GET

URL: http://localhost:8080/invoices/client/{client}

As done in the screen shot below:



Note on Calculations:

```
Sub Total = 35

Line Item - id= 1, desc = Chips, quantity = 10, unitPrice = 2 quantity * unitPrice = 10 * 2 = 20

Line Item - id= 2, desc = Candy, quantity = 3, unitPrice = 5 quantity * unitPrice = 3 * 5 = 15

20 + 15 = 35

Vat = Sub Total * vat Rate = 35 * 15% = 5.25

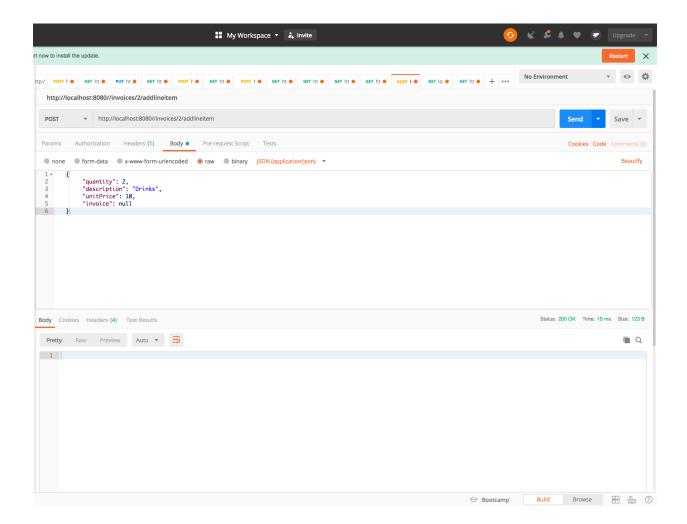
Total = Sub Total + Vat = 35 + 5.25 = 40.25
```

Add a Line Item to Invoice - id= 2 Client = Max

Using our REST End Point: Method: POST

URL: http://localhost:8080//invoices/{invoiceId}/addlineitem

```
{
    "quantity": 2,
    "description": "Drinks",
    "unitPrice": 10,
    "invoice": null
}
```



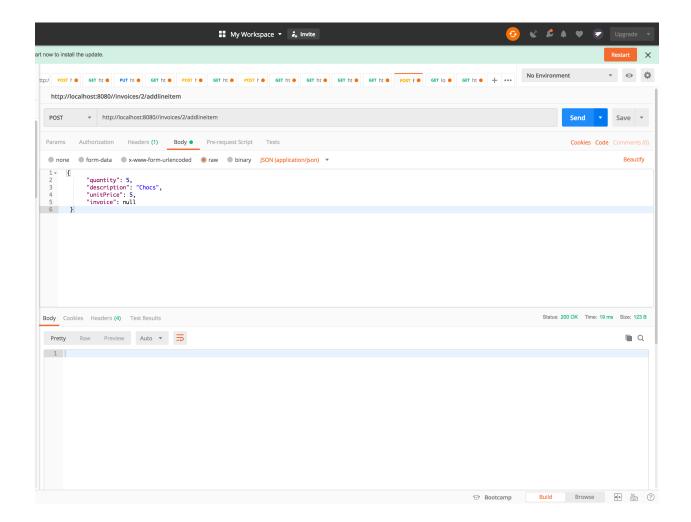
Add another Line Item to Invoice - id= 2 Client = Max (same as Step 7)

Using our REST End Point:

Method: POST

URL: http://localhost:8080//invoices/{invoiceId}/addlineitem

```
{
    "quantity": 5,
    "description": "Chocs",
    "unitPrice": 5,
    "invoice": null
}
```



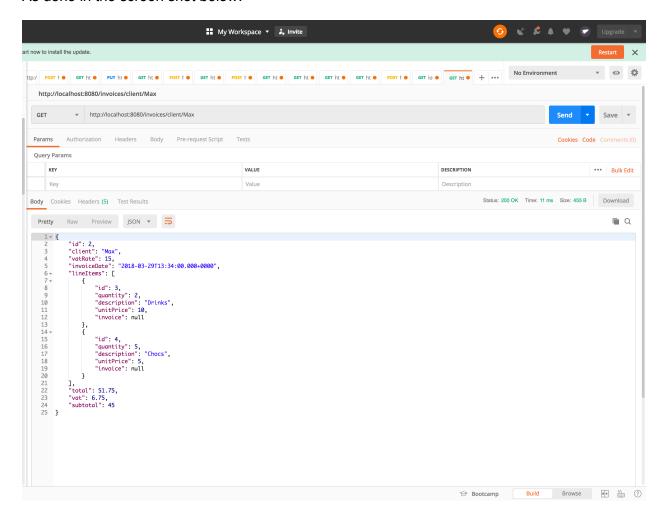
View Invoice - id = 2 Client = Max To see our LineItems added

Using our REST End Point:

Method: GET

URL: http://localhost:8080/invoices/client/{client}

As done in the screen shot below:



Note on Calculations:

```
Sub Total = 45
```

```
Line Item - id= 3, desc = Drinks, quantity = 2, unitPrice = 10 quantity * unitPrice = 2*10 = 20

Line Item - id= 4, desc = Chocs, quantity = 5, unitPrice = 5 quantity * unitPrice = 5*5 = 25

20 + 25 = 45

Vat = Sub Total * vat Rate = 45*15\% = 6.75

Total = Sub Tota + Vat = 45+6.75 = 51.75
```

View all Invoices

Using our REST End Point:

Method: GET

URL: http://localhost:8080/invoices

Note All LineItems are added to their invoice and the calculations for Sub Total, Vat Total and Total are displayed for each Invoice

As done in the screen shot below:

