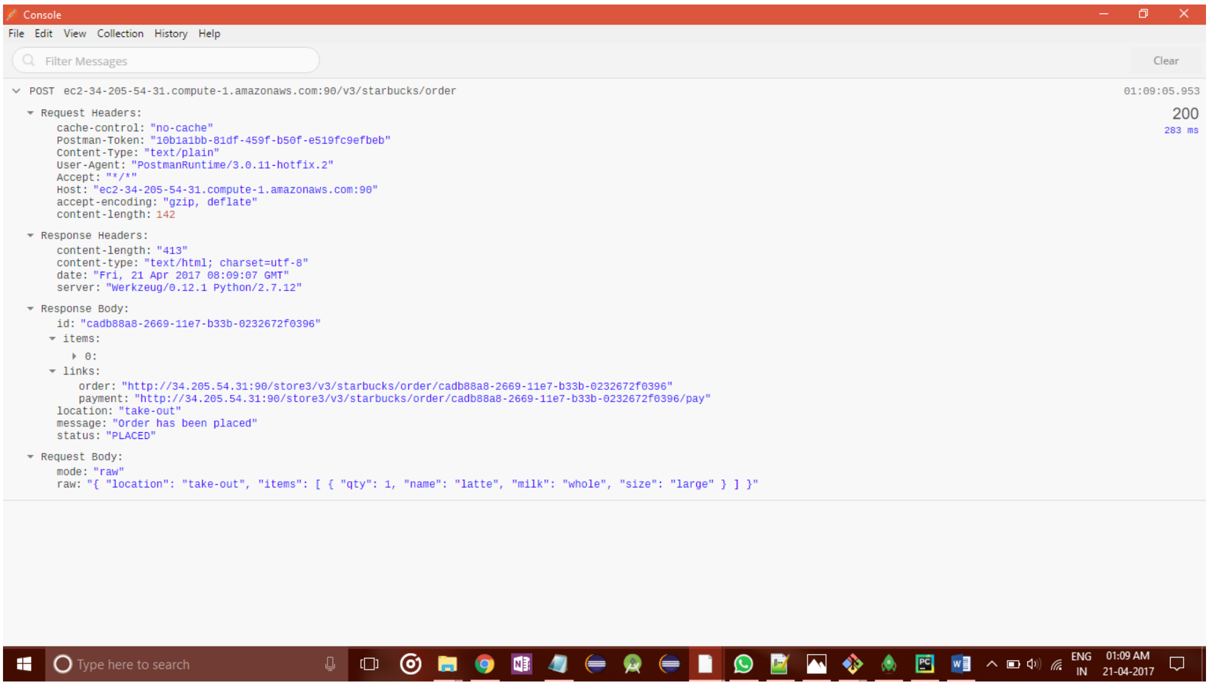
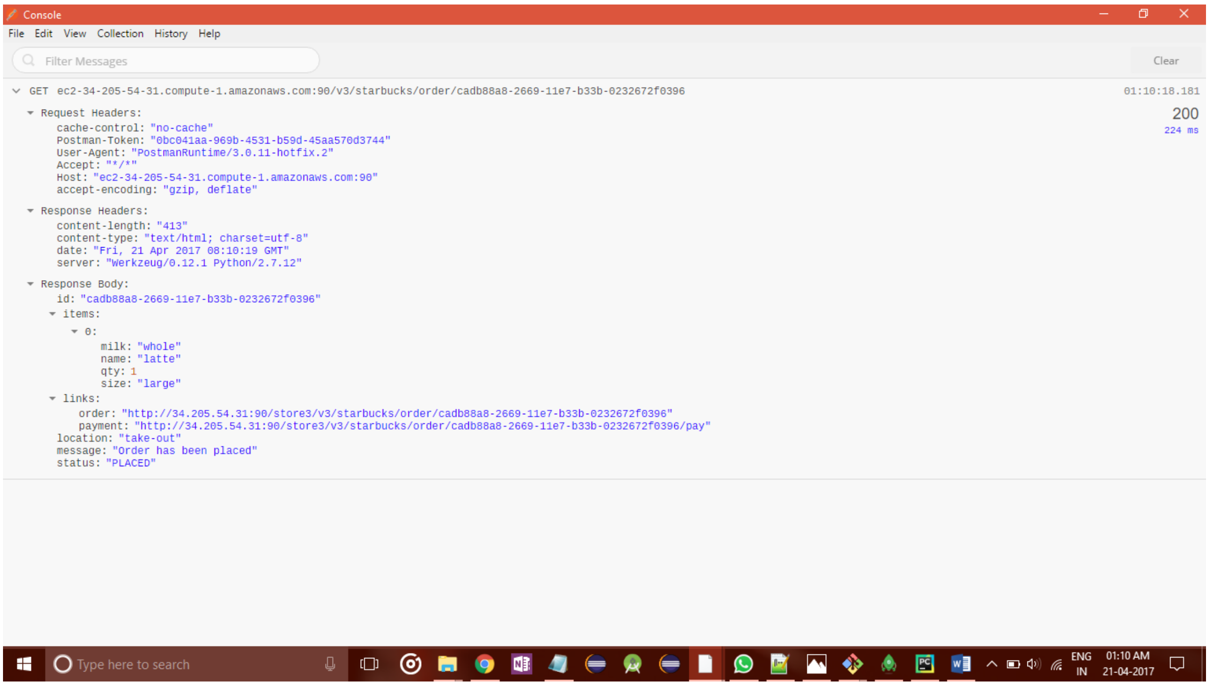
Place Order:



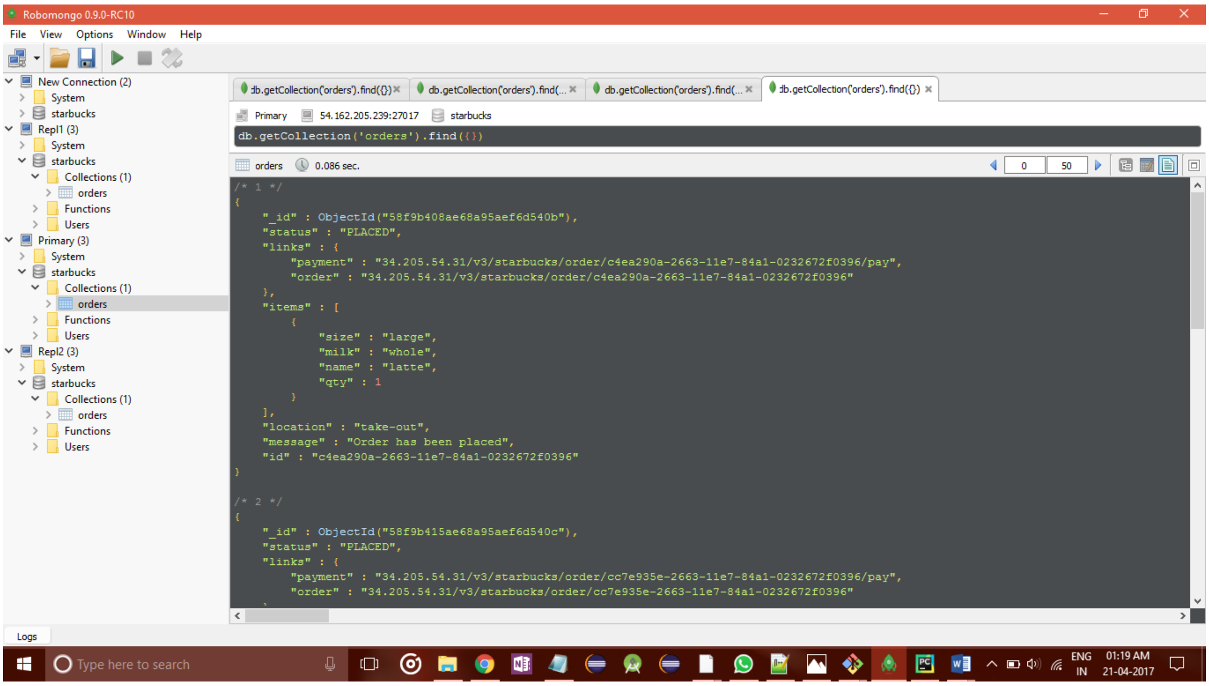
```
POST  ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order                01:09:05.953
  Request Headers:                                                                          200
     cache-control: "no-cache"                                                           283 ms
     Postman-Token: "10b1a1bb-81df-459f-b50f-e519fc9efbeb"
     Content-Type: "text/plain"
     User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
     Accept: "*/*"
     Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
     accept-encoding: "gzip, deflate"
     content-length: 142
  Response Headers:
     content-length: "413"
     content-type: "text/html; charset=utf-8"
     date: "Fri, 21 Apr 2017 08:09:07 GMT"
     server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
     id: "cadb88a8-2669-11e7-b33b-0232672f0396"
    items:
       0:
    links:
       order: "http://34.205.54.31:90/store3/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396"
       payment: "http://34.205.54.31:90/store3/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396/pay"
     location: "take-out"
     message: "Order has been placed"
     status: "PLACED"
  Request Body:
     mode: "raw"
     raw: "{ "location": "take-out", "items": [ { "qty": 1, "name": "latte", "milk": "whole", "size": "large" } ] }"
```

Get Order:



```
GET  ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396   01:10:18.181
  Request Headers:                                                                          200
     cache-control: "no-cache"                                                           224 ms
     Postman-Token: "0bc041aa-969b-4531-b59d-45aa570d3744"
     User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
     Accept: "*/*"
     Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
     accept-encoding: "gzip, deflate"
  Response Headers:
     content-length: "413"
     content-type: "text/html; charset=utf-8"
     date: "Fri, 21 Apr 2017 08:10:19 GMT"
     server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
     id: "cadb88a8-2669-11e7-b33b-0232672f0396"
    items:
       0:
          milk: "whole"
          name: "latte"
          qty: 1
          size: "large"
    links:
       order: "http://34.205.54.31:90/store3/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396"
       payment: "http://34.205.54.31:90/store3/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396/pay"
     location: "take-out"
     message: "Order has been placed"
     status: "PLACED"
```

MongoDB Primary Node


Robomongo 0.9.0-RC10
File View Options Window Help
Primary 54.162.205.239:27017 starbucks
orders 0.086 sec.
01:19 AM 21-04-2017

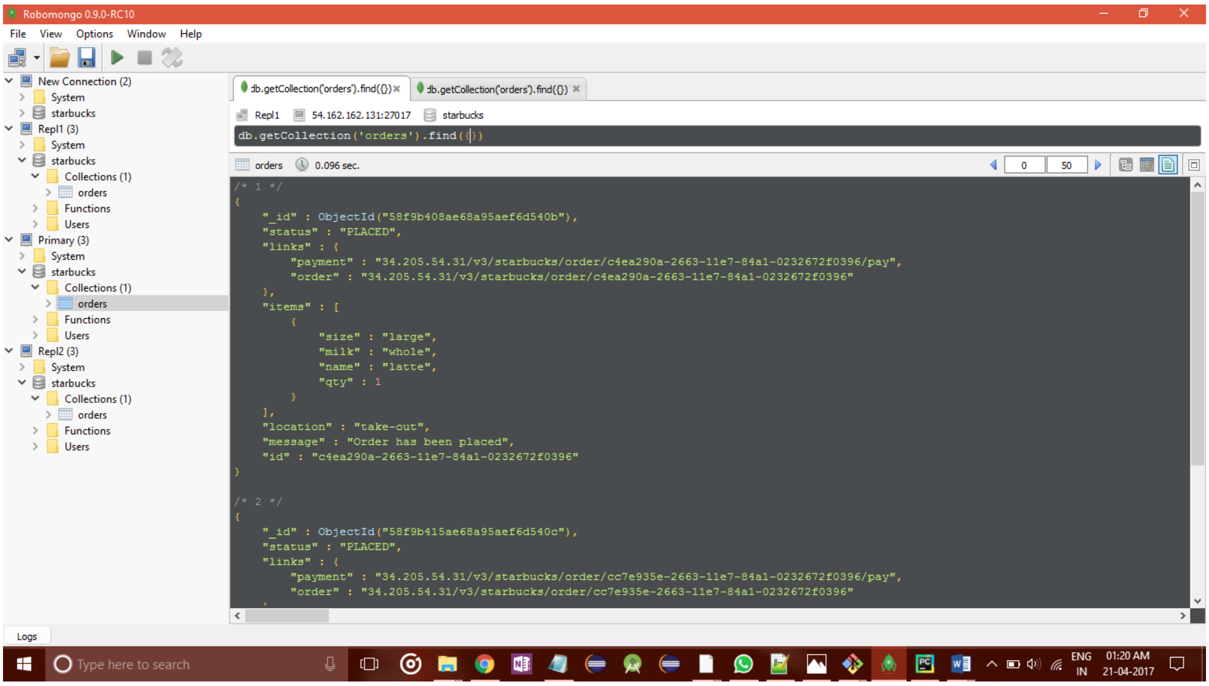
```
db.getCollection('orders').find({})
```

```
/* 1 */
{
    "_id" : ObjectId("58f9b408ae68a95aef6d540b"),
    "status" : "PLACED",
    "links" : {
        "payment" : "34.205.54.31/v3/starbucks/order/c4ea290a-2663-11e7-84a1-0232672f0396/pay",
        "order" : "34.205.54.31/v3/starbucks/order/c4ea290a-2663-11e7-84a1-0232672f0396"
    },
    "items" : [
        {
            "size" : "large",
            "milk" : "whole",
            "name" : "latte",
            "qty" : 1
        }
    ],
    "location" : "take-out",
    "message" : "Order has been placed",
    "id" : "c4ea290a-2663-11e7-84a1-0232672f0396"
}

/* 2 */
{
    "_id" : ObjectId("58f9b415ae68a95aef6d540c"),
    "status" : "PLACED",
    "links" : {
        "payment" : "34.205.54.31/v3/starbucks/order/cc7e935e-2663-11e7-84a1-0232672f0396/pay",
        "order" : "34.205.54.31/v3/starbucks/order/cc7e935e-2663-11e7-84a1-0232672f0396"
```

The document will be replicated in the remaining 2 nodes:

Replica 1

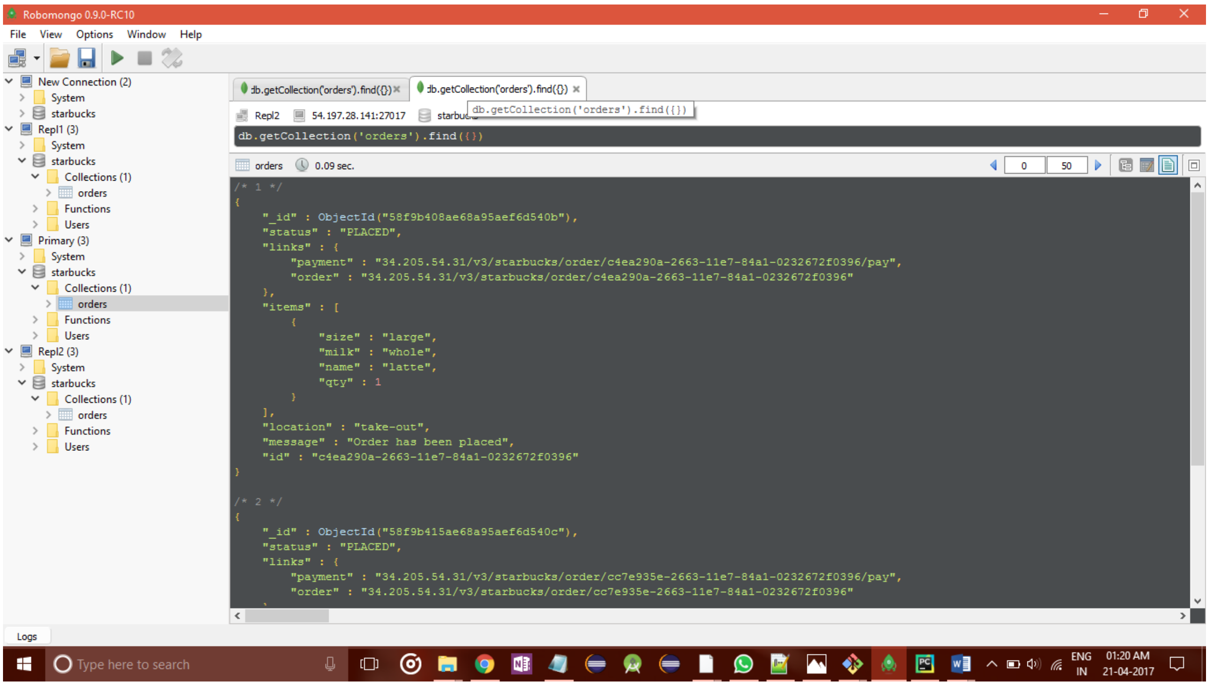

Robomongo 0.9.0-RC10
File View Options Window Help
Repl1 54.162.162.131:27017 starbucks
orders 0.096 sec.
01:20 AM 21-04-2017

```
db.getCollection('orders').find({})
```

```
/* 1 */
{
    "_id" : ObjectId("58f9b408ae68a95aef6d540b"),
    "status" : "PLACED",
    "links" : {
        "payment" : "34.205.54.31/v3/starbucks/order/c4ea290a-2663-11e7-84a1-0232672f0396/pay",
        "order" : "34.205.54.31/v3/starbucks/order/c4ea290a-2663-11e7-84a1-0232672f0396"
    },
    "items" : [
        {
            "size" : "large",
            "milk" : "whole",
            "name" : "latte",
            "qty" : 1
        }
    ],
    "location" : "take-out",
    "message" : "Order has been placed",
    "id" : "c4ea290a-2663-11e7-84a1-0232672f0396"
}

/* 2 */
{
    "_id" : ObjectId("58f9b415ae68a95aef6d540c"),
    "status" : "PLACED",
    "links" : {
        "payment" : "34.205.54.31/v3/starbucks/order/cc7e935e-2663-11e7-84a1-0232672f0396/pay",
        "order" : "34.205.54.31/v3/starbucks/order/cc7e935e-2663-11e7-84a1-0232672f0396"
```

Replica 2



Repl2 54.197.28.141:27017 starbucks

```
db.getCollection('orders').find({})
```

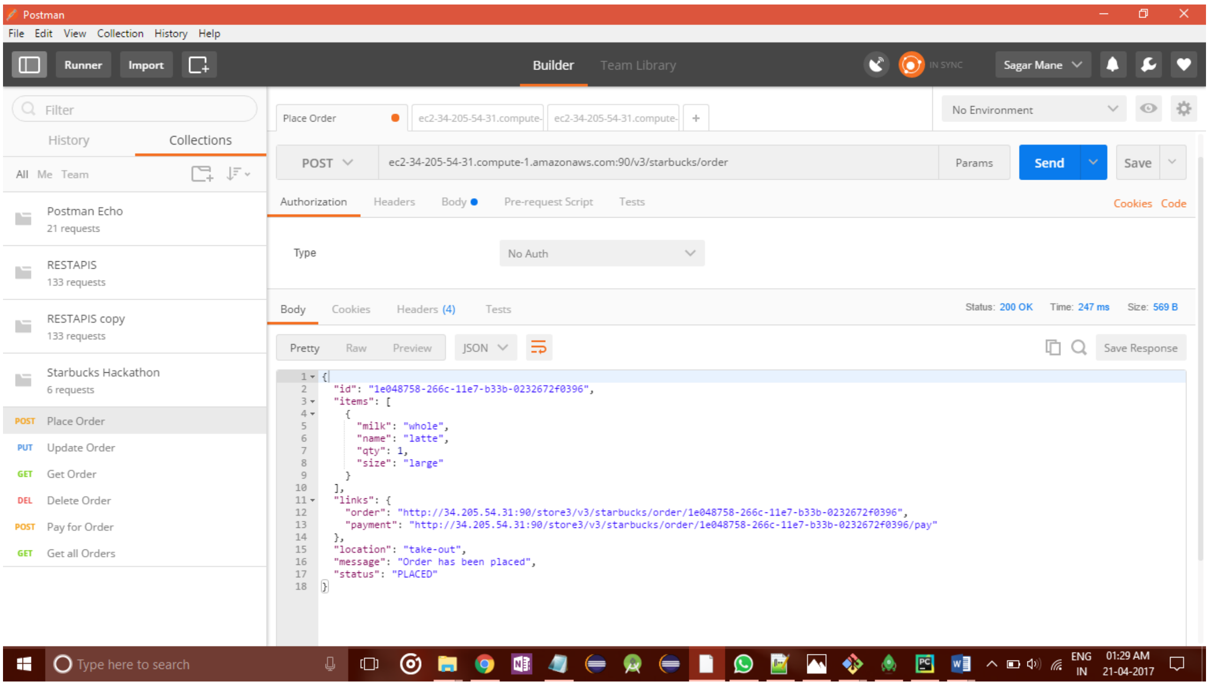
orders 0.09 sec.

```
/* 1 */
{
    "_id" : ObjectId("58f9b408ae68a95aef6d540b"),
    "status" : "PLACED",
    "links" : {
        "payment" : "34.205.54.31/v3/starbucks/order/c4ea290a-2663-11e7-84a1-0232672f0396/pay",
        "order" : "34.205.54.31/v3/starbucks/order/c4ea290a-2663-11e7-84a1-0232672f0396"
    },
    "items" : [
        {
            "size" : "large",
            "milk" : "whole",
            "name" : "latte",
            "qty" : 1
        }
    ],
    "location" : "take-out",
    "message" : "Order has been placed",
    "id" : "c4ea290a-2663-11e7-84a1-0232672f0396"
}

/* 2 */
{
    "_id" : ObjectId("58f9b415ae68a95aef6d540c"),
    "status" : "PLACED",
    "links" : {
        "payment" : "34.205.54.31/v3/starbucks/order/cc7e935e-2663-11e7-84a1-0232672f0396/pay",
        "order" : "34.205.54.31/v3/starbucks/order/cc7e935e-2663-11e7-84a1-0232672f0396"
```

Once payment is done the status changes to -> “PREPARING” -> “SERVED” -> “COLLECTED” and document is updated on all the replicas

1. Placed



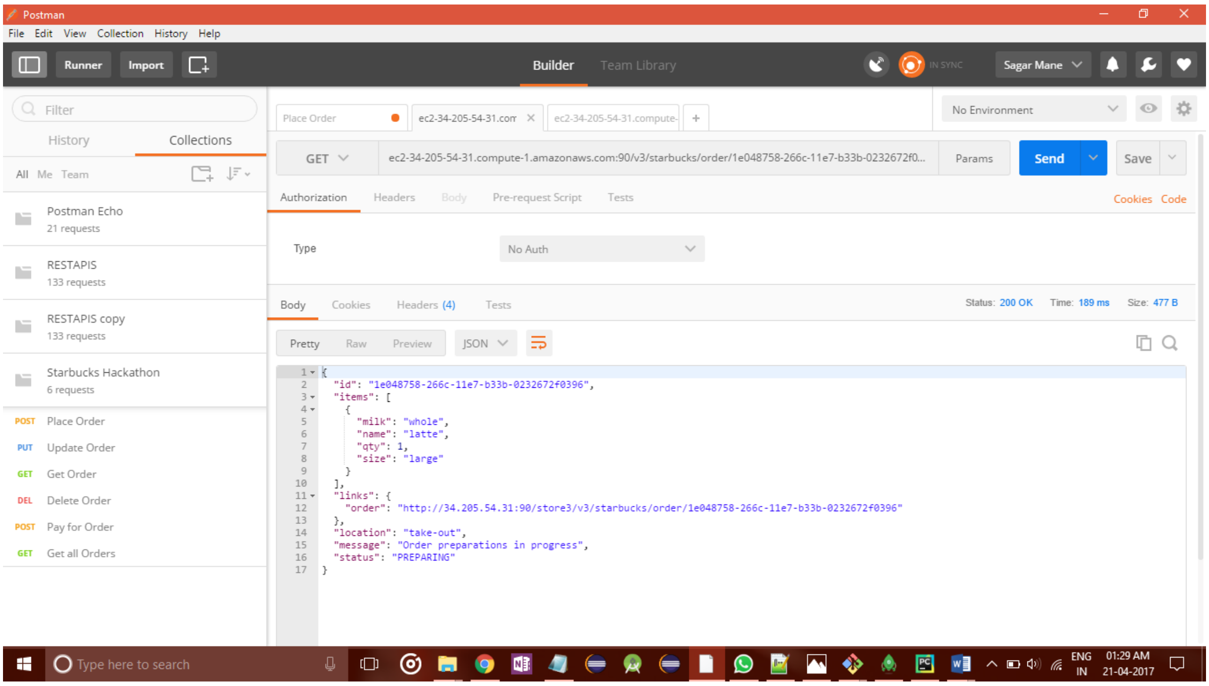
POST ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order

Type: No Auth

Status: 200 OK Time: 247 ms Size: 569 B

```
{
  "id": "1e048758-266c-11e7-b33b-0232672f0396",
  "items": [
    {
      "milk": "whole",
      "name": "latte",
      "qty": 1,
      "size": "large"
    }
  ],
  "links": {
    "order": "http://34.205.54.31:90/store3/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0396",
    "payment": "http://34.205.54.31:90/store3/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0396/pay"
  },
  "location": "take-out",
  "message": "Order has been placed",
  "status": "PLACED"
}
```

2. Preparing



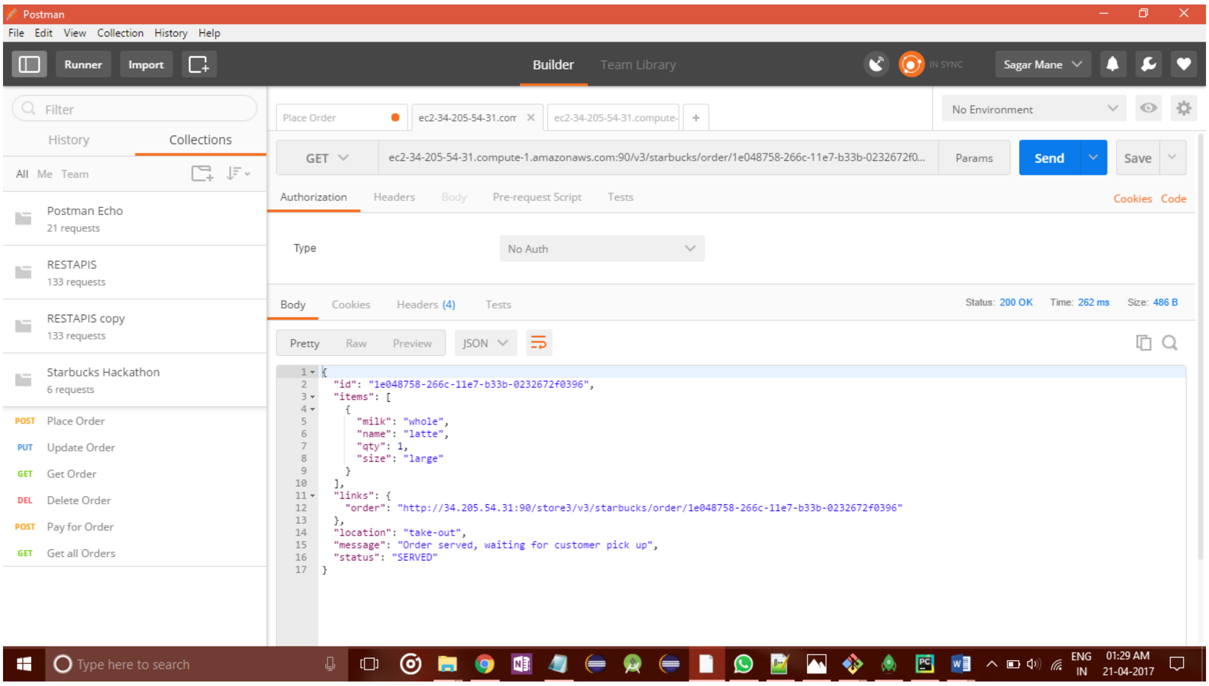
GET ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0...

Type: No Auth

Status: 200 OK Time: 189 ms Size: 477 B

```
{
  "id": "1e048758-266c-11e7-b33b-0232672f0396",
  "items": [
    {
      "milk": "whole",
      "name": "latte",
      "qty": 1,
      "size": "large"
    }
  ],
  "links": {
    "order": "http://34.205.54.31:90/store3/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0396"
  },
  "location": "take-out",
  "message": "Order preparations in progress",
  "status": "PREPARING"
}
```

3. Served



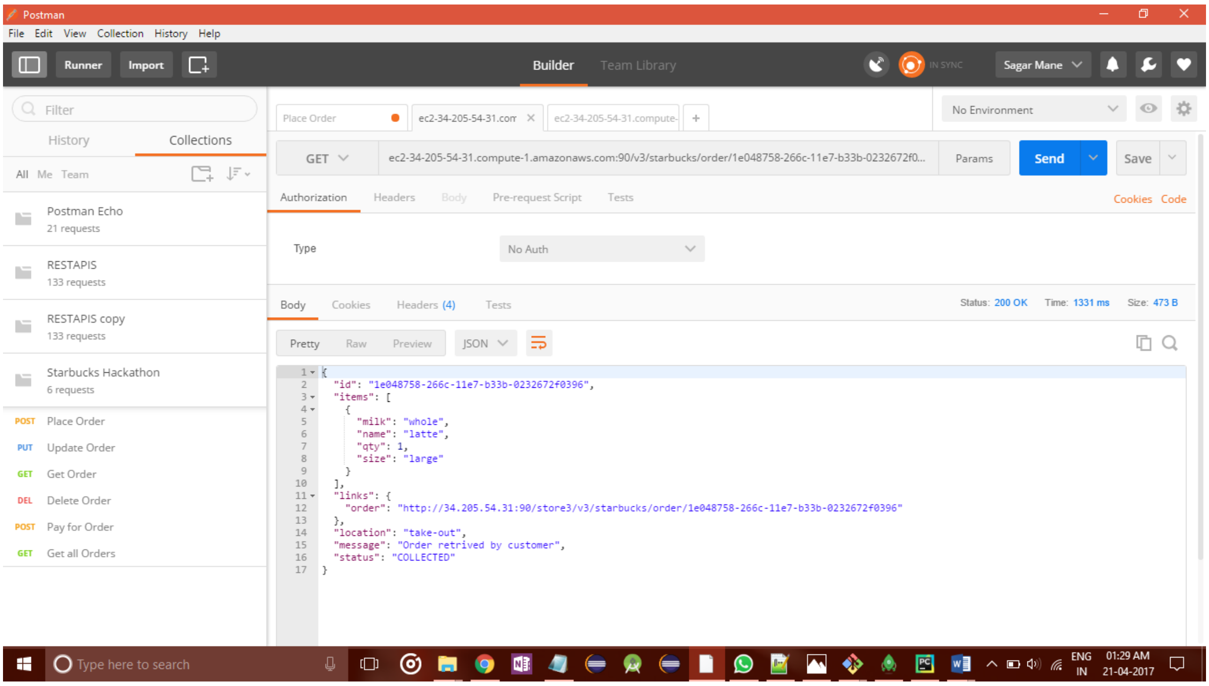
GET ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0...

Type: No Auth

Status: 200 OK Time: 262 ms Size: 486 B

```
{
  "id": "1e048758-266c-11e7-b33b-0232672f0396",
  "items": [
    {
      "milk": "whole",
      "name": "latte",
      "qty": 1,
      "size": "large"
    }
  ],
  "links": {
    "order": "http://34.205.54.31:90/store3/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0396"
  },
  "location": "take-out",
  "message": "Order served, waiting for customer pick up",
  "status": "SERVED"
}
```

4. Collected



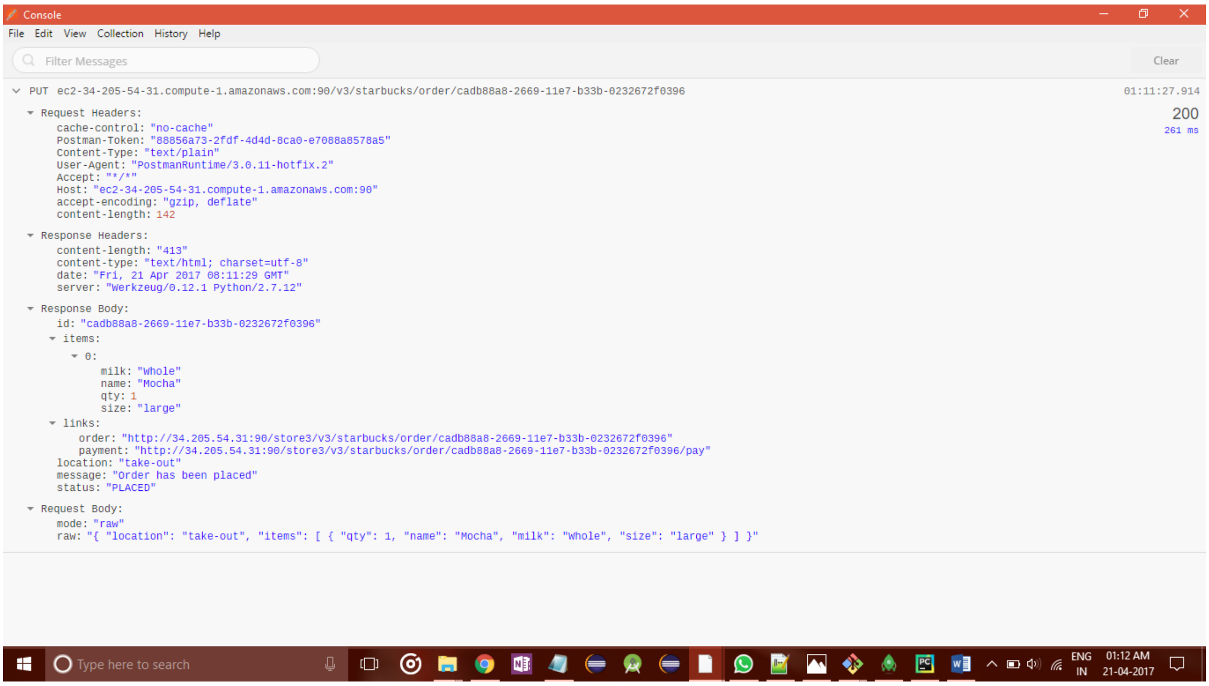
GET ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0...

Type: No Auth

Status: 200 OK Time: 1331 ms Size: 473 B

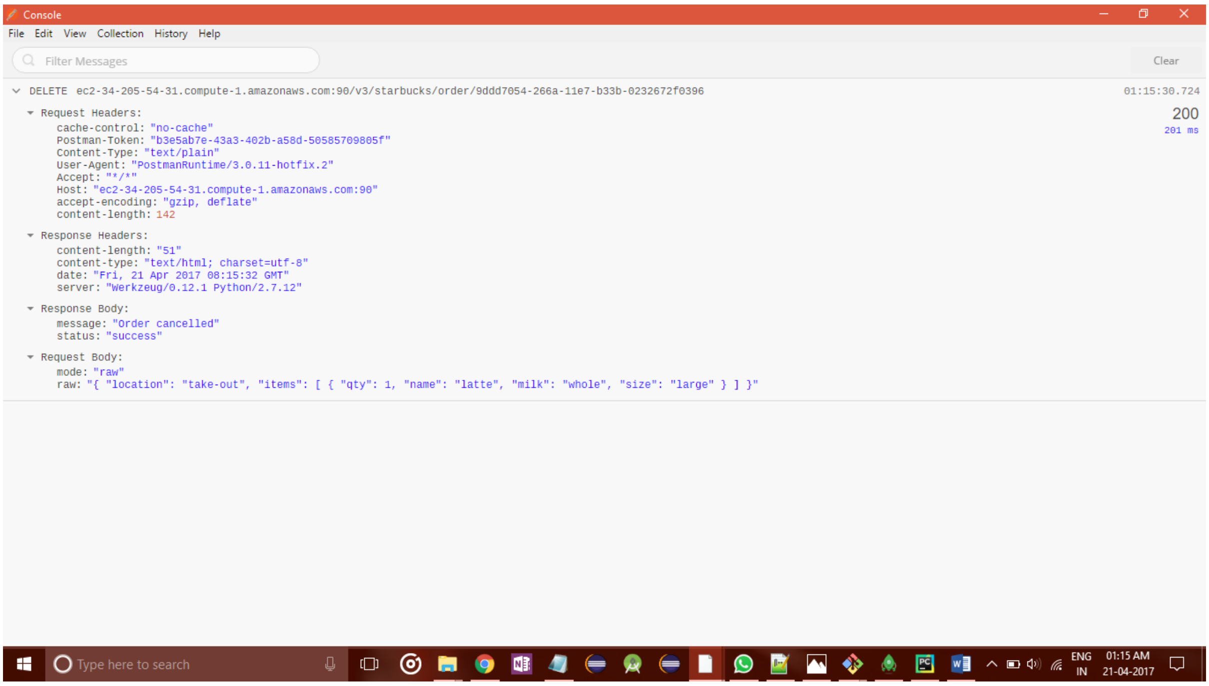
```
{
  "id": "1e048758-266c-11e7-b33b-0232672f0396",
  "items": [
    {
      "milk": "whole",
      "name": "latte",
      "qty": 1,
      "size": "large"
    }
  ],
  "links": {
    "order": "http://34.205.54.31:90/store3/v3/starbucks/order/1e048758-266c-11e7-b33b-0232672f0396"
  },
  "location": "take-out",
  "message": "Order retrived by customer",
  "status": "COLLECTED"
}
```

Update Order



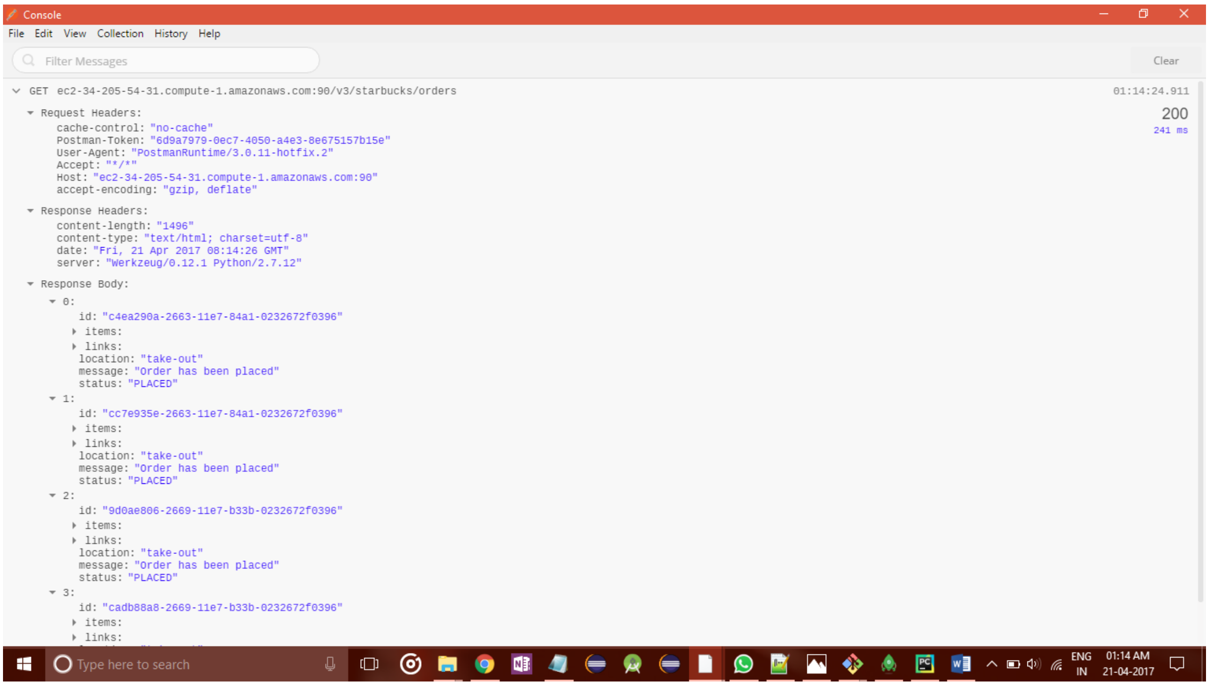
```
PUT ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396    01:11:27.914
                                                                                                            200
                                                                                                            261 ms
  Request Headers:
    cache-control: "no-cache"
    Postman-Token: "88856a73-2fdf-4d4d-8ca0-e7088a8578a5"
    Content-Type: "text/plain"
    User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
    Accept: "*/*"
    Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
    accept-encoding: "gzip, deflate"
    content-length: 142
  Response Headers:
    content-length: "413"
    content-type: "text/html; charset=utf-8"
    date: "Fri, 21 Apr 2017 08:11:29 GMT"
    server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
    id: "cadb88a8-2669-11e7-b33b-0232672f0396"
    items:
      0:
        milk: "Whole"
        name: "Mocha"
        qty: 1
        size: "large"
    links:
      order: "http://34.205.54.31:90/store3/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396"
      payment: "http://34.205.54.31:90/store3/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396/pay"
    location: "take-out"
    message: "Order has been placed"
    status: "PLACED"
  Request Body:
    mode: "raw"
    raw: "{ "location": "take-out", "items": [ { "qty": 1, "name": "Mocha", "milk": "Whole", "size": "large" } ] }"
```

Delete Order



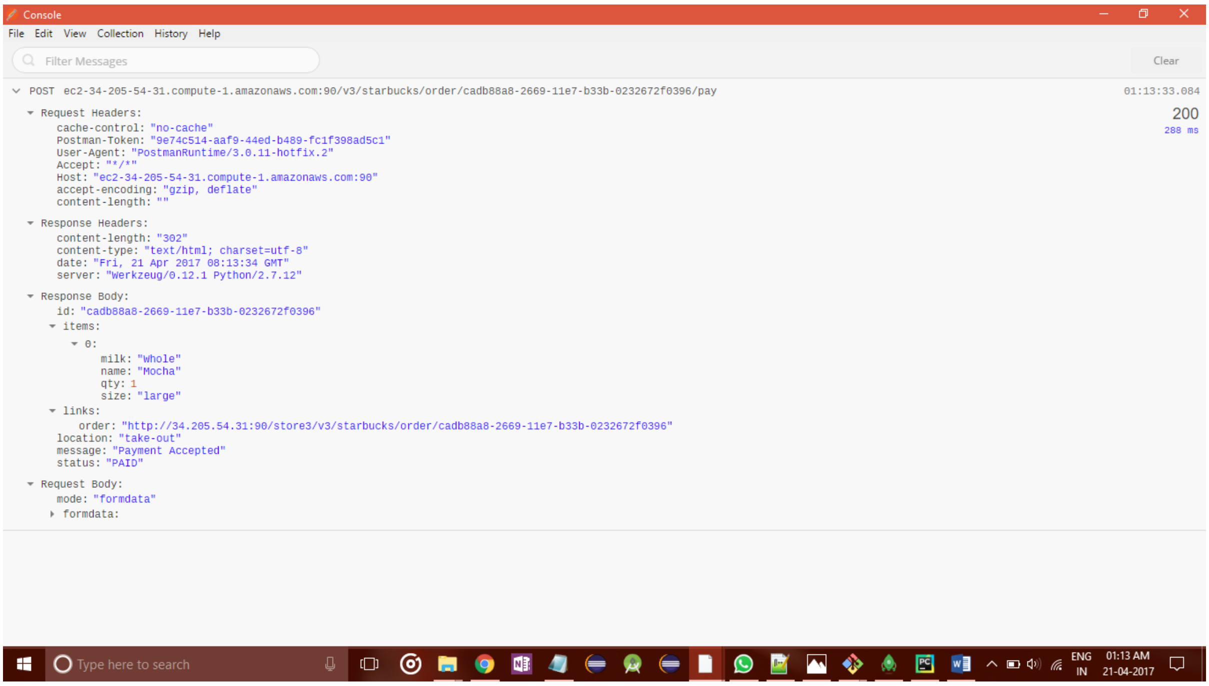
```
DELETE  ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/9ddd7054-266a-11e7-b33b-0232672f0396    01:15:30.724
  Request Headers:                                                                                                   200
    cache-control: "no-cache"                                                                                      201 ms
    Postman-Token: "b3e5ab7e-43a3-402b-a58d-50585709805f"
    Content-Type: "text/plain"
    User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
    Accept: "*/*"
    Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
    accept-encoding: "gzip, deflate"
    content-length: 142
  Response Headers:
    content-length: "51"
    content-type: "text/html; charset=utf-8"
    date: "Fri, 21 Apr 2017 08:15:32 GMT"
    server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
    message: "Order cancelled"
    status: "success"
  Request Body:
    mode: "raw"
    raw: "{ "location": "take-out", "items": [ { "qty": 1, "name": "latte", "milk": "whole", "size": "large" } ] }"
```

Get all orders



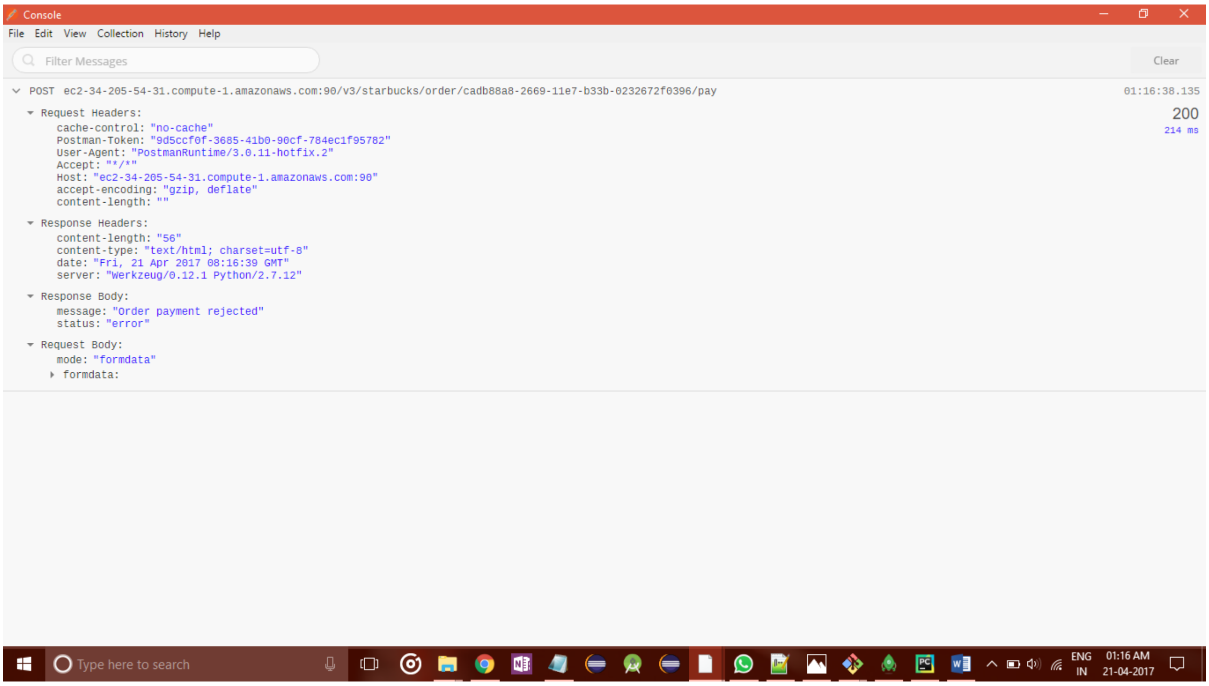
```
GET  ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/orders    01:14:24.911
  Request Headers:                                                           200
    cache-control: "no-cache"                                              241 ms
    Postman-Token: "6d9a7979-0ec7-4050-a4e3-8e675157b15e"
    User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
    Accept: "*/*"
    Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
    accept-encoding: "gzip, deflate"
  Response Headers:
    content-length: "1496"
    content-type: "text/html; charset=utf-8"
    date: "Fri, 21 Apr 2017 08:14:26 GMT"
    server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
    0:
      id: "c4ea290a-2663-11e7-84a1-0232672f0396"
      items:
      links:
      location: "take-out"
      message: "Order has been placed"
      status: "PLACED"
    1:
      id: "cc7e935e-2663-11e7-84a1-0232672f0396"
      items:
      links:
      location: "take-out"
      message: "Order has been placed"
      status: "PLACED"
    2:
      id: "9d0ae806-2669-11e7-b33b-0232672f0396"
      items:
      links:
      location: "take-out"
      message: "Order has been placed"
      status: "PLACED"
    3:
      id: "cadb88a8-2669-11e7-b33b-0232672f0396"
      items:
      links:
```

Pay Order



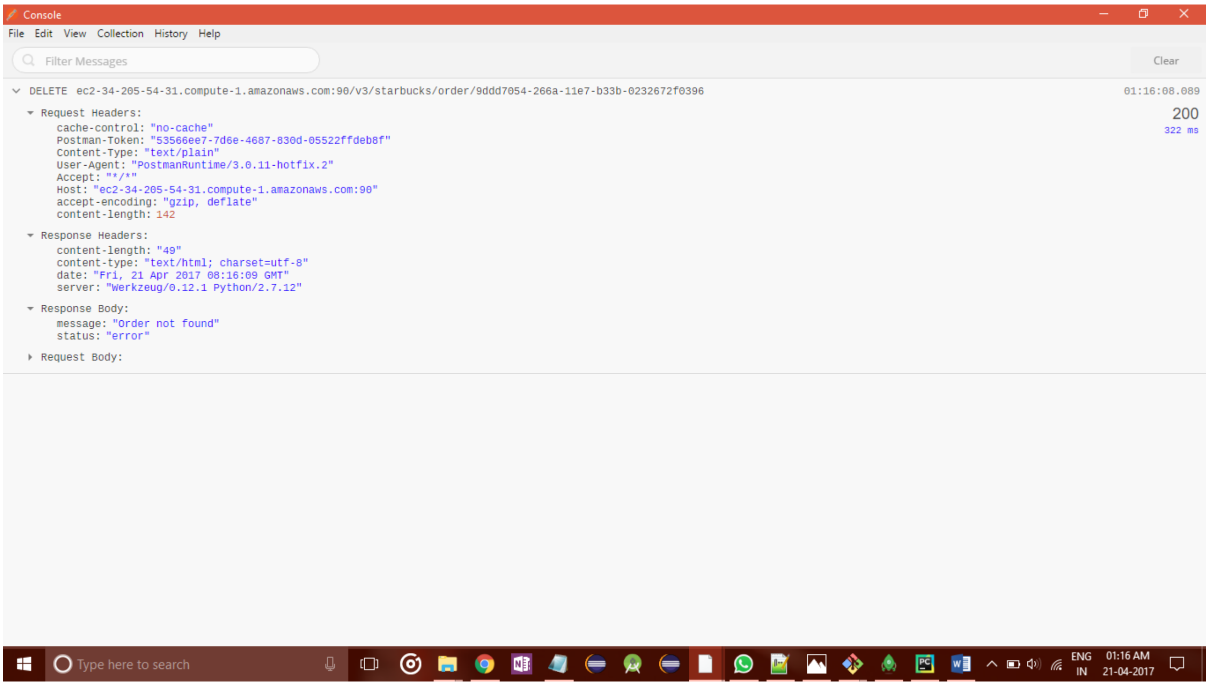
```
POST  ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396/pay    01:13:33.084
  Request Headers:                                                                                                    200
     cache-control: "no-cache"                                                                                      288 ms
     Postman-Token: "9e74c514-aaf9-44ed-b489-fc1f398ad5c1"
     User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
     Accept: "*/*"
     Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
     accept-encoding: "gzip, deflate"
     content-length: ""
  Response Headers:
     content-length: "302"
     content-type: "text/html; charset=utf-8"
     date: "Fri, 21 Apr 2017 08:13:34 GMT"
     server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
     id: "cadb88a8-2669-11e7-b33b-0232672f0396"
     items:
        0:
           milk: "Whole"
           name: "Mocha"
           qty: 1
           size: "large"
     links:
        order: "http://34.205.54.31:90/store3/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396"
     location: "take-out"
     message: "Payment Accepted"
     status: "PAID"
  Request Body:
     mode: "formdata"
     formdata:
```

Payment Error handling



```
POST  ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/cadb88a8-2669-11e7-b33b-0232672f0396/pay    01:16:38.135
  Request Headers:                                                                                                    200
     cache-control: "no-cache"                                                                                      214 ms
     Postman-Token: "9d5ccf0f-3685-41b0-90cf-784ec1f95782"
     User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
     Accept: "*/*"
     Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
     accept-encoding: "gzip, deflate"
     content-length: ""
  Response Headers:
     content-length: "56"
     content-type: "text/html; charset=utf-8"
     date: "Fri, 21 Apr 2017 08:16:39 GMT"
     server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
     message: "Order payment rejected"
     status: "error"
  Request Body:
     mode: "formdata"
     formdata:
```

Delete Error Handling



```
DELETE  ec2-34-205-54-31.compute-1.amazonaws.com:90/v3/starbucks/order/9ddd7054-266a-11e7-b33b-0232672f0396      01:16:08.089
  Request Headers:                                                                                                  200
     cache-control: "no-cache"                                                                                   322 ms
     Postman-Token: "53566ee7-7d6e-4687-830d-05522ffdeb8f"
     Content-Type: "text/plain"
     User-Agent: "PostmanRuntime/3.0.11-hotfix.2"
     Accept: "*/*"
     Host: "ec2-34-205-54-31.compute-1.amazonaws.com:90"
     accept-encoding: "gzip, deflate"
     content-length: 142
  Response Headers:
     content-length: "49"
     content-type: "text/html; charset=utf-8"
     date: "Fri, 21 Apr 2017 08:16:09 GMT"
     server: "Werkzeug/0.12.1 Python/2.7.12"
  Response Body:
     message: "Order not found"
     status: "error"
  Request Body:
```