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# **1. Apache JMeter**

The Apache Jmeter™ application is open source software, a 100% pure Java application designed to load test functional behavior and measure performance. It was originally designed for testing Web Applications but has since expanded to other test functions.

It can be used to simulate a heavy load on a server, group of servers, network or object to test its strength or to analyze overall performance under different load types.

## **2. Requirements**

### **1. Java Version.**

JMeter requires a fully compliant JVM 6 or higher.

### **2. Operating Systems.**

JMeter is a 100% Java application and should run correctly on any system that has a compliant Java implementation.

## **3. Installation**

To install a release build, simply unzip the zip/tar file into the directory where you want JMeter to be installed. Provided that you have a JRE/JDK correctly installed and the JAVA\_HOME environment variable set, there is nothing more for you to do.

To run JMeter, run the jmeter.bat (for Windows) or jmeter (for Unix) file. These files are found in the bin directory.

## **4. Test Plan**

A test plan describes a series of steps JMeter will execute when run. A complete test plan will consist of one or more Thread Groups, logic controllers, sample generating controllers, listeners, timers, assertions, and configuration elements.

## **5. Thread Group**

Thread group elements are the beginning points of any test plan. All controllers and samplers must be under a thread group. Other elements, e.g. Listeners, may be placed directly under the test plan, in which case they will apply to all the thread groups. As the name implies, the thread group element controls the number of threads JMeter will use to execute your test.

5.1 The controls for a thread group allow you to:

Set the number of threads.

Each thread will execute the test plan in its entirety and completely independently of other test threads. Multiple threads are used to simulate concurrent connections to your server application.

Set the ramp-up period.

The ramp-up period tells JMeter how long to take to "ramp-up" to the full number of threads chosen. If 10 threads are used, and the ramp-up period is 100 seconds, then JMeter will take 100 seconds to get all 10 threads up and running. Each thread will start 10 (100/10) seconds after the previous thread was begun. If there are 30 threads and a ramp-up period of 120 seconds, then each successive thread will be delayed by 4 seconds.

Set the number of times to execute the tests.

## 6. Samplers

Samplers tell JMeter to send requests to a server and wait for a response. They are processed in the order they appear in the tree. Controllers can be used to modify the number of repetitions of a sampler.

JMeter samplers include:

- FTP Request
- HTTP Request (We used I our case)
- JDBC Request
- Java object request
- LDAP Request
- SOAP/XML-RPC Request
- WebService (SOAP) Request

Each sampler has several properties you can set. You can further customize a sampler by adding one or more Configuration Elements to the Test Plan.

## 7. Listeners

Listeners provide access to the information JMeter gathers about the test cases while JMeter runs. The "View Results Tree" Listener shows details of sampler requests and responses, and can display basic HTML and XML representations of the response.

## 8. Building a Web Test Plan

1) The first step you want to do with every JMeter Test Plan is to add a Thread Group element. The Thread Group tells JMeter the number of users you want to simulate, how often the users should send requests, and the how many requests they should send.

2) Go ahead and add the Thread Group element by first selecting the Test Plan, clicking your right mouse button to get the Add menu, and then select Add --> Thread Group.

Begin by selecting the JMeter Users (Thread Group) element. Click your right mouse button to get the Add menu, and then select Add --> Config Element --> HTTP Request Defaults.

3)The final element you need to add to your Test Plan is a Listener. This element is responsible for storing all of the results of your HTTP requests in a file and presenting a visual model of the data.

Select the JMeter Users element and add a Graph Results listener (Add --> Listener --> View Results Tree).

Latency + Processing Time = Response Time .

## 9. Testing Work

In our project testing we are providing standard inputs to the Thread group that are:

Number of threads (user) - 300

Ramp up period – 1

Loop count - 1

Inputs are URL s for the project and are provided in the HTTP Request Path field according to that we are getting different responses from the server.(All the test are performed on the local server).

We have took the result for load testing in the tree format which gives us response parameters in well formatted way.

In further pages we change only the URL inputs and get the response detail in the result set. The result tree format also give us the json output.

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_dist\_health;tsmMdn=9641658777;dsrMdn=974926899

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

Thread Group

Name: hsm\_dist\_health\_1

Comments:

Action to be taken after a Sampler error

Continue    Start Next Thread Loop    Stop Thread    Stop Test    Stop Test Now

Thread Properties

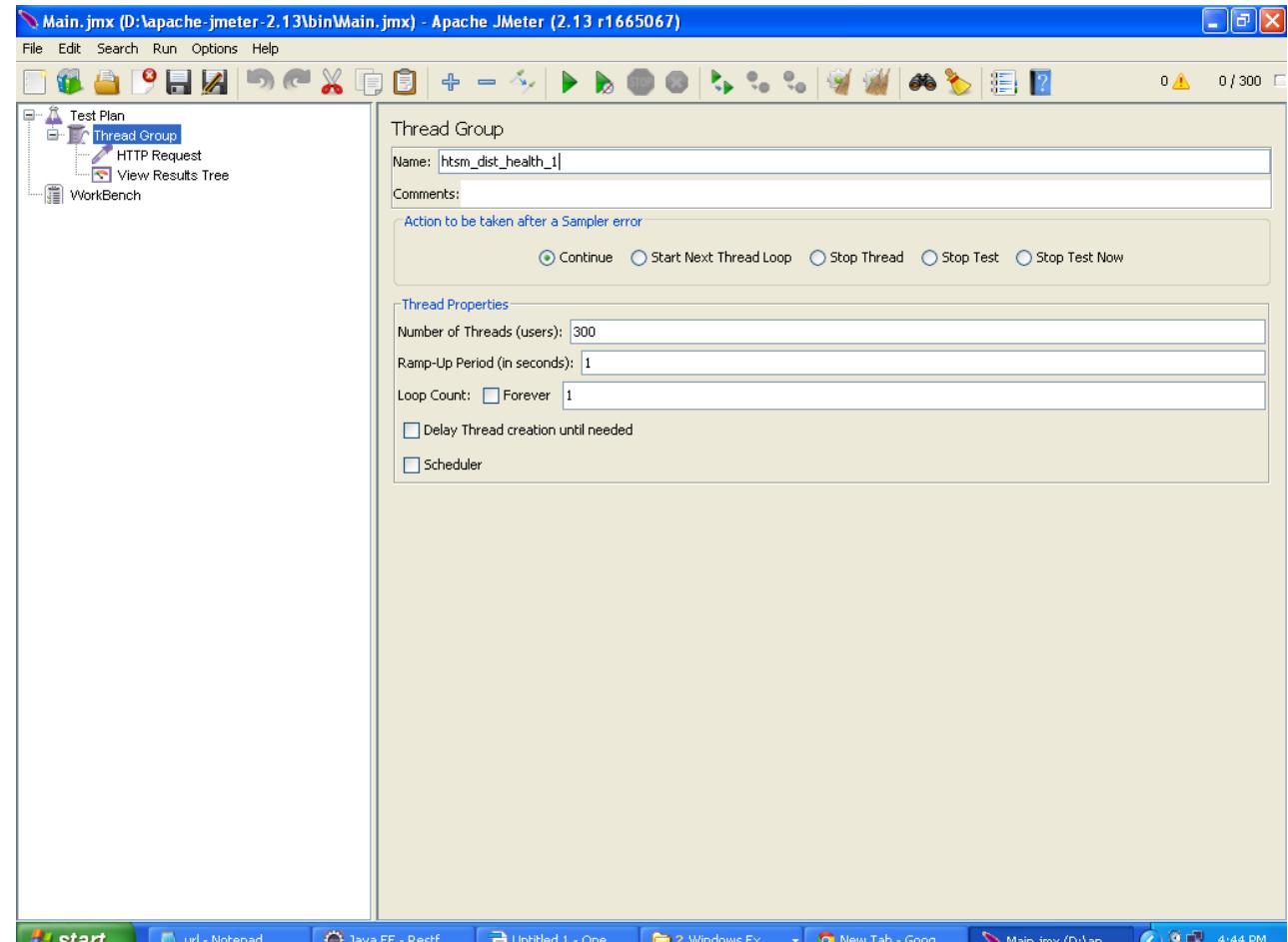
Number of Threads (users): 300

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 1

Delay Thread creation until needed

Scheduler



Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

hsm\_dist\_health\_1

HTTP Request

Name: HTTP Request

Comments:

Web Server

Server Name or IP: [ ] Port Number: [ ] Connect: [ ] Response

HTTP Request

Implementation: [ ] Protocol [http]: [ ] Method: GET Content encoding: [ ]

Path: http://localhost:8080/Restful/rest/reports/tsm\_dist\_health;tsmMdn=9641658777;dsrMdn=9749268999

Redirect Automatically    Follow Redirects    Use KeepAlive    Use multipart/form-data for POST    Browser-com

Parameters Body Data

Send Parameters With the Request:

Name:	Value:	Encode?
[ ]	[ ]	[ ]

Detail Add Add from Clipboard Delete Up Down

Send Files With the Request:

File Path: [ ] Parameter Name: [ ]

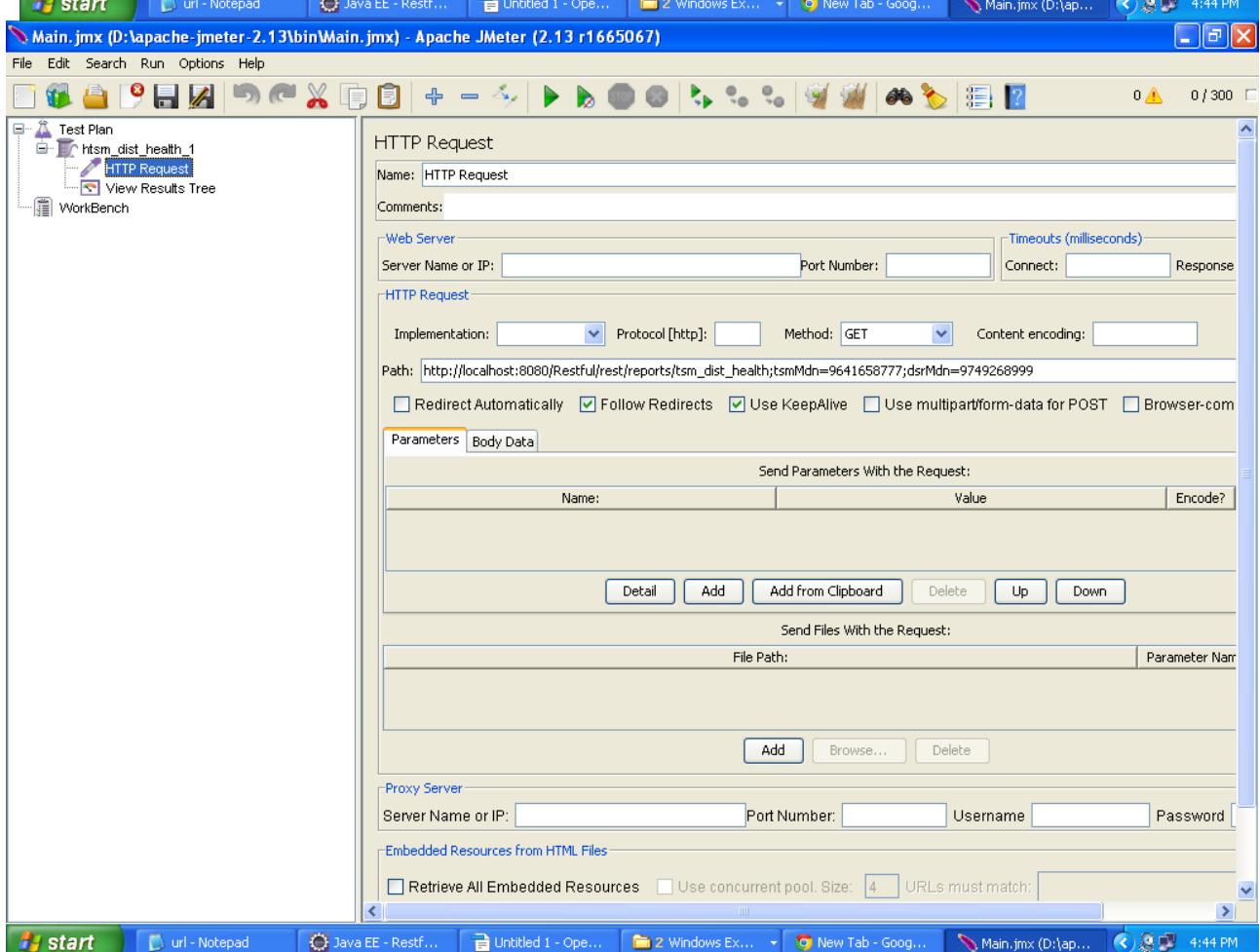
Add Browse... Delete

Proxy Server

Server Name or IP: [ ] Port Number: [ ] Username: [ ] Password: [ ]

Embedded Resources from HTML Files

Retrieve All Embedded Resources    Use concurrent pool. Size: 4 URLs must match: [ ]



Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only:  Errors  Successes

JSON Sampler result Request Response data

```
{ "disthealthreport": [ { "name": "NEW MOBILE STORE", "values": [ { "retailer": "UTO", "mtd": "41128", "lmtd": "40352", "growth": "2" }, { "retailer": "UAO", "mtd": "2528", "lmtd": "4381", "growth": "-73" }, { "retailer": "DAO", "mtd": "12", "lmtd": "1", "growth": "50" }, { "retailer": "Secondary O/L", "mtd": "83", "lmtd": "86", "growth": "-4" } ] }
```

Search:  Find Case sensitive Regular exp.

HTTP Request

Scroll automatically?

Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only:  Errors  Successes

Text Sampler result Request Response data

```
Thread Name: Thread Group 1-1
Sample Start: 2015-04-06 16:43:22 GMT+05:30
Load time: 167
Connect Time: 2
Latency: 167
Size in bytes: 1147
Headers size in bytes: 143
Body size in bytes: 1004
Sample Count: 1
Error Count: 0
Response code: 200
Response message: OK

Response headers:
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/json
Transfer-Encoding: chunked
Date: Mon, 06 Apr 2015 11:13:22 GMT

HTTPSampleResult fields:
ContentType: application/json
DataEncoding: null
```

Raw Parsed

HTTP Request

Scroll automatically?

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_dsr\_health;tsmMdn=9641658777;dsrMdn=83889728  
28

The screenshot shows the Apache JMeter interface version 2.13 r1665067. On the left, the Test Plan tree shows a single thread group named "tsm\_dsr\_health\_2" containing an "HTTP Request" sampler and a "View Results Tree" listener. The main panel displays the configuration for this thread group. The "Name" field is set to "tsm\_dsr\_health\_2". Under "Action to be taken after a Sampler error", the "Continue" option is selected. In the "Thread Properties" section, "Number of Threads (users)" is set to 300, "Ramp-Up Period (in seconds)" is 1, and "Loop Count" is set to "Forever" with a value of 1. There are also two unchecked options: "Delay Thread creation until needed" and "Scheduler".

This screenshot provides a detailed view of the "HTTP Request" sampler configuration within the "tsm\_dsr\_health\_2" thread group. The "Name" field is "HTTP Request". Under the "Web Server" tab, the "Server Name or IP" and "Port Number" fields are empty. The "Connect" and "Response" timeout fields are also empty. The "HTTP Request" tab shows the "Path" field containing the URL: "http://localhost:8080/Restful/rest/reports/tsm\_dsr\_health;tsmMdn=9641658777;dsrMdn=8388972828". Several checkboxes are present: "Redirect Automatically" (unchecked), "Follow Redirects" (checked), "Use KeepAlive" (checked), "Use multipart/form-data for POST" (unchecked), and "Browser-com" (unchecked). The "Parameters" tab is active, showing a table for sending parameters with the request. The "Body Data" tab is also visible. The "Proxy Server" tab includes fields for "Server Name or IP", "Port Number", "Username", and "Password". The "Embedded Resources from HTML Files" tab includes checkboxes for "Retrieve All Embedded Resources" and "Use concurrent pool. Size: 4 URLs must match: [dropdown menu]".

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_dsr\_health\_2
  - HTTP Request
- View Results Tree

WorkBench

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only:  Errors  Successes

Sampler result Request Response data

Text

Thread Name: tsm\_dsr\_health\_2 1-6  
Sample Start: 2015-04-06 16:48:38 GMT+05:30  
Load time: 884  
Connect Time: 1  
Latency: 884  
Size in bytes: 1140  
Headers size in bytes: 143  
Body size in bytes: 997  
Sample Count: 1  
Error Count: 0  
Response code: 200  
Response message: OK

Response headers:  
HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Content-Type: application/json  
Transfer-Encoding: chunked  
Date: Mon, 06 Apr 2015 11:18:39 GMT

HTTPSampleResult fields:  
ContentType: application/json  
DataEncoding: null

Raw Parsed

Scroll automatically?

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_dsr\_health\_2
  - HTTP Request
- View Results Tree

WorkBench

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only:  Errors  Successes

Sampler result Request Response data

JSON

```
{ "dsrhealthreport": { "name": "SAMARI BARMAN", "values": [ { "retailer": "UTO", "mtd": "19400", "lmtd": "20952", "growth": "-8" }, { "retailer": "UAO", "mtd": "1525", "lmtd": "2257", "growth": "-48" }, { "retailer": "DAO", "mtd": "0", "lmtd": "0", "growth": "0" }, { "retailer": "Secondary O/L", "mtd": "40", "lmtd": "42", "growth": "-5" } ] }}
```

Search:  Find  Case sensitive  Regular exp.

Scroll automatically?

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/dsr\_ret\_health;tsmMdn=8388972828;dsrMdn=850975741  
0

The screenshot shows the Apache JMeter interface with the following configuration:

- Test Plan:** A tree view showing a single thread group named "dsr\_ret\_health\_1".
- Thread Group:** Configuration for "dsr\_ret\_health\_1".
  - Name:** dsr\_ret\_health\_1
  - Comments:** None
  - Action to be taken after a Sampler error:** Continue (radio button selected)
  - Thread Properties:**
    - Number of Threads (users):** 300
    - Ramp-Up Period (in seconds):** 1
    - Loop Count:**  Forever, value 1
    - Delay Thread creation until needed
    - Scheduler

The screenshot shows the Apache JMeter interface with the following configuration:

- Test Plan:** A tree view showing a single thread group named "dsr\_ret\_health\_1" which contains an "HTTP Request" sampler.
- HTTP Request:** Configuration for the "HTTP Request" sampler.
  - Name:** HTTP Request
  - Comments:** None
  - Web Server:**
    - Server Name or IP:** [empty]
    - Port Number:** [empty]
    - Connect:** [empty]
    - Response:** [empty]
  - HTTP Request:**
    - Implementation:** [dropdown]
    - Protocol [http]:** [dropdown]
    - Method:** GET (selected)
    - Content encoding:** [dropdown]
  - Path:** http://localhost:8080/Restful/rest/reports/dsr\_ret\_health;tsmMdn=8388972828;dsrMdn=8509757410
  - Advanced Options:**
    - Redirect Automatically
    - Follow Redirects
    - Use KeepAlive
    - Use multipart/form-data for POST
    - Browser-com
  - Parameters:** A table for sending parameters with the request. It has columns for Name, Value, and Encode?.
  - Body Data:** A table for sending body data with the request. It has columns for Detail, Add, Add from Clipboard, Delete, Up, and Down.
  - Send Files With the Request:** A table for sending files with the request. It has columns for File Path and Parameter Name.
  - Proxy Server:** Configuration for proxy server settings.
  - Embedded Resources from HTML Files:** Configuration for embedded resources.

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- dsr\_ret\_health\_1
  - HTTP Request

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:  Browse... Log/Display Only:  Errors  Successes

Text

Sampler result Request Response data

Thread Name: dsr\_ret\_health\_1 1-203  
Sample Start: 2015-04-06 16:52:59 GMT+05:30  
Load time: 6186  
Connect Time: 53  
Latency: 6186  
Size in bytes: 174  
Headers size in bytes: 162  
Body size in bytes: 12  
Sample Count: 1  
Error Count: 0  
Response code: 200  
Response message: OK

Response headers:  
HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Content-Type: application/json  
Transfer-Encoding: chunked  
Date: Mon, 06 Apr 2015 11:23:05 GMT  
Connection: close

HTTPSampleResult fields:  
ContentType: application/json  
DataEncoding: null

Raw Parsed

Scroll automatically?

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- dsr\_ret\_health\_1
  - HTTP Request

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:  Browse... Log/Display Only:  Errors  Successes

JSON

Sampler result Request Response data

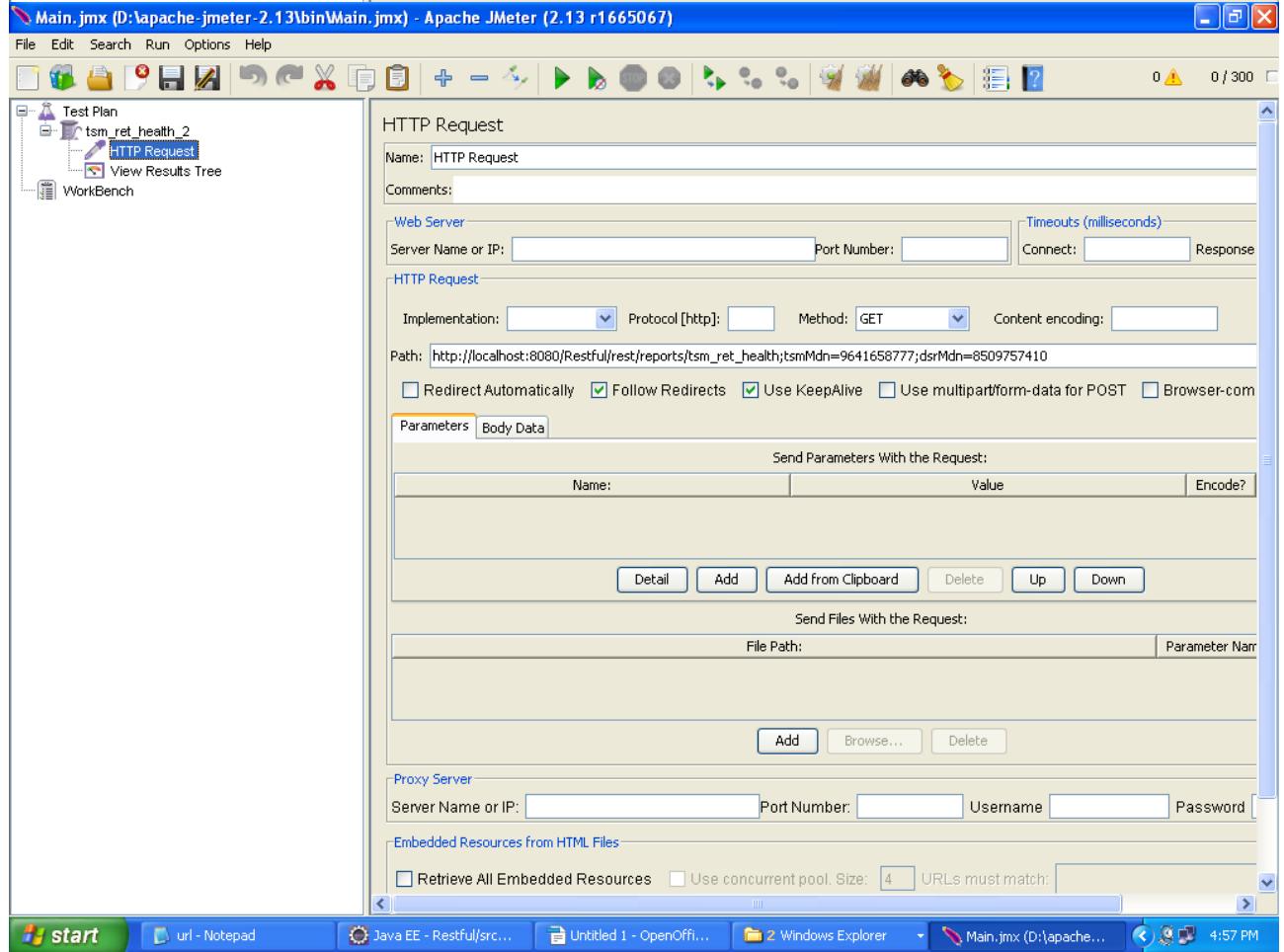
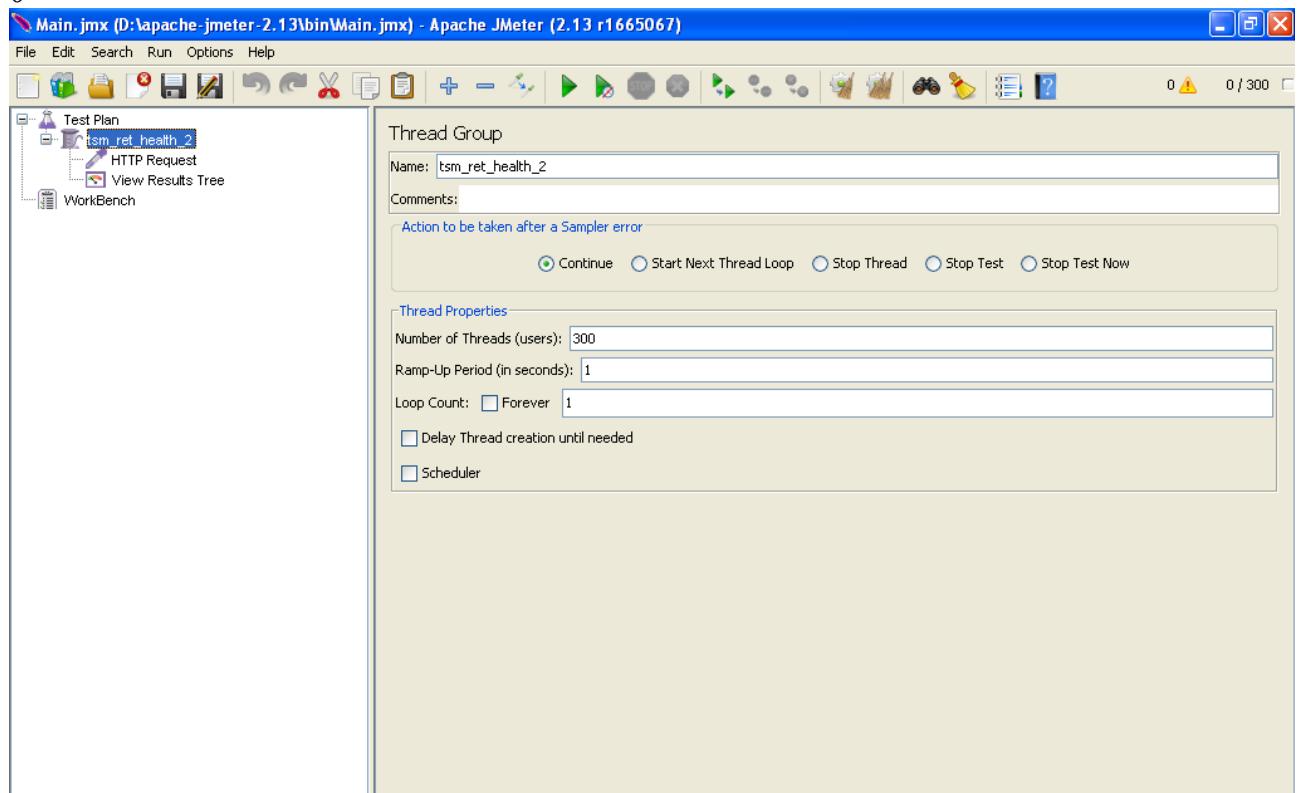
{}

Search:  Find  Case sensitive  Regular exp.

Scroll automatically?

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_ret\_health;tsmMdn=9641658777;dsrMdn=850975741  
0



The screenshot shows the Apache JMeter interface with the following details:

- Title Bar:** Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)
- Menu Bar:** File, Edit, Search, Run, Options, Help
- Toolbar:** Includes icons for Test Plan, WorkBench, and various JMeter functions.
- Left Panel (Tree View):** Shows the "Test Plan" tree with a node "tsm\_ret\_health\_2" expanded, containing an "HTTP Request" and a "View Results Tree" listener.
- Central Panel (View Results Tree):**
  - Name:** View Results Tree
  - Comments:** (empty)
  - Buttons:** Write results to file / Read from file, Browse..., Log/Display Only: Errors, Successes, Configure.
  - Text Area (Left):** A tree view showing multiple "HTTP Request" entries under the "tsm\_ret\_health\_2" node.
  - Text Area (Right):** Detailed results for the first request:
    - Thread Name: tsm\_ret\_health\_2 1-24
    - Sample Start: 2015-04-06 16:56:14 GMT+05:30
    - Load time: 2475
    - Connect Time: 72
    - Latency: 2475
    - Size in bytes: 841
    - Headers size in bytes: 143
    - Body size in bytes: 698
    - Sample Count: 1
    - Error Count: 0
    - Response code: 200
    - Response message: OK

Response headers:

    - HTTP/1.1 200 OK
    - Server: Apache-Coyote/1.1
    - Content-Type: application/json
    - Transfer-Encoding: chunked
    - Date: Mon, 06 Apr 2015 11:26:16 GMT

HTTPSSampleResult fields:

    - ContentType: application/json
    - DataEncoding: null

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan  
tsm\_retail\_health\_2  
HTTP Request  
View Results Tree  
WorkBench

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only:  Errors  Successes  Configure

JSON

Sampler result Request Response data

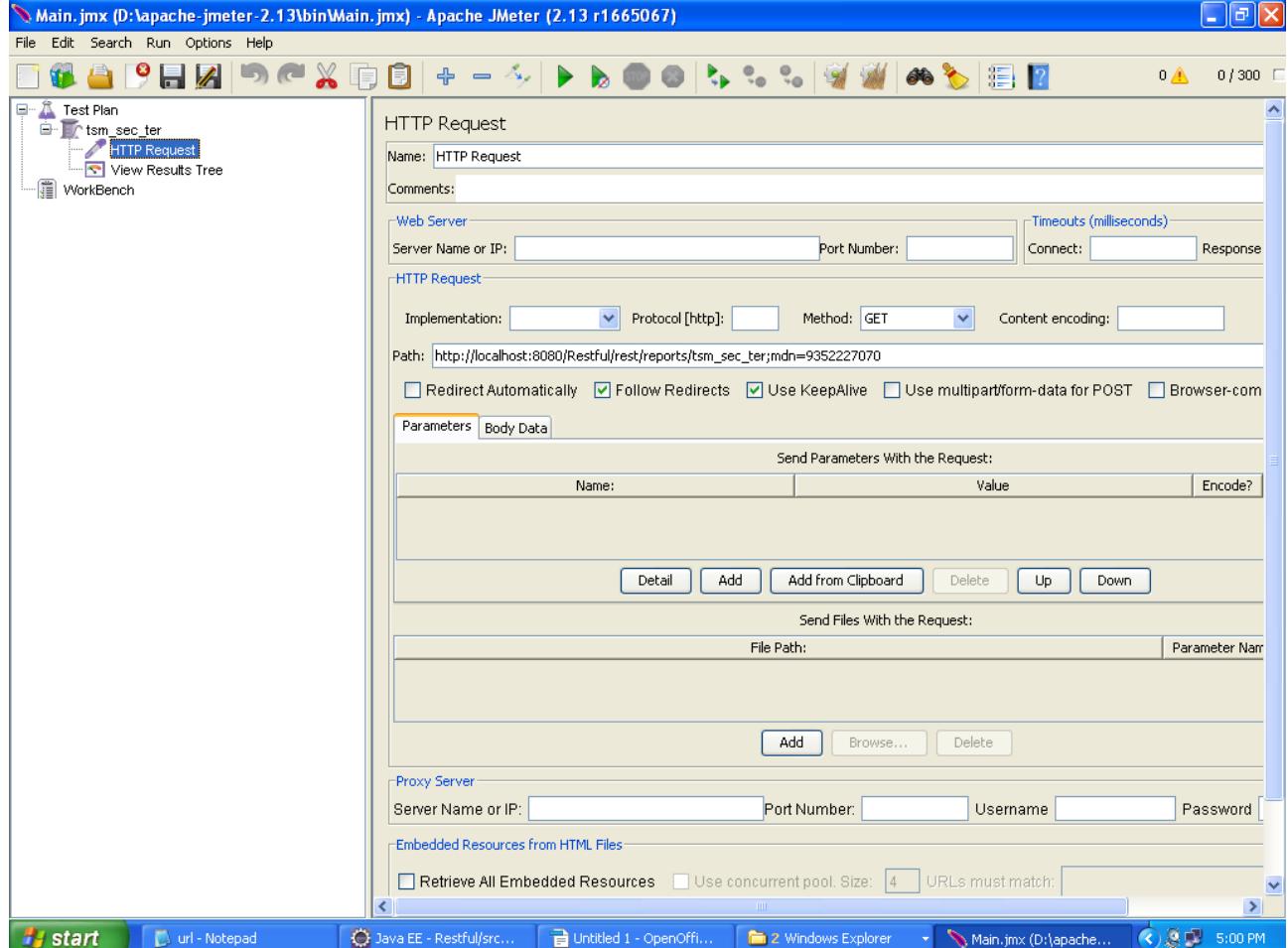
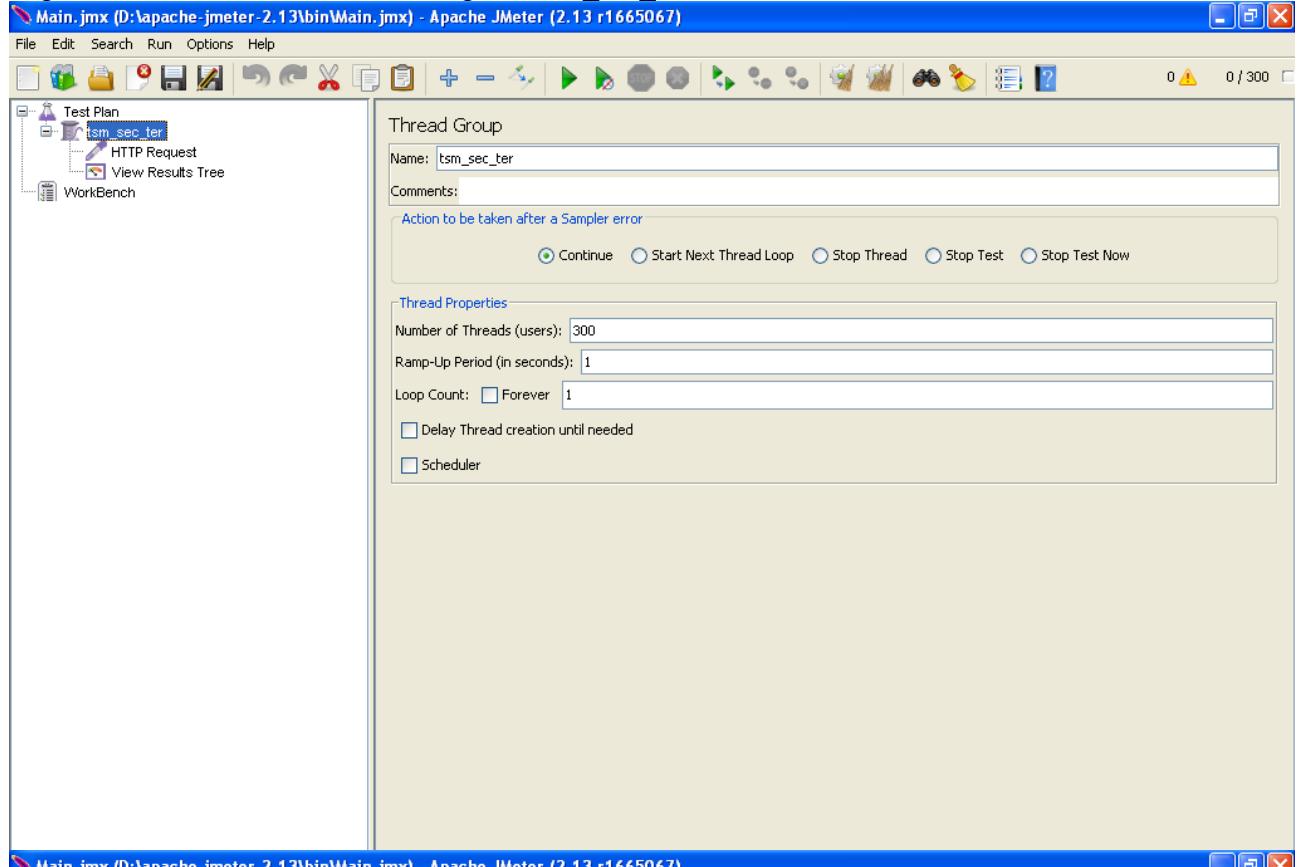
{  
: "retailhealthreport":  
: {  
: : "name":"BULA STORES 2 8509757410",  
: : "rdscore":"0",  
: : "values":  
: : [  
: : : {  
: : : : "retailer":"Secondary (Lac)",  
: : : : "mtid":"2",  
: : : : "lmtid":"1",  
: : : : "growth":"33"  
: : : },  
: : : {  
: : : : "retailer":"Tertiary (Lac)",  
: : : : "mtid":"1",  
: : : : "lmtid":"1",  
: : : : "growth":"54"  
: : : },  
: : : {  
: : : : "retailer":"Act",  
: : : : "mtid":"0",  
: : : : "lmtid":"0",  
: : : : "growth":"0"  
: : : },  
: : : {  
: : : : "retailer":"TVP",  
: : : : "mtid":"0",  
: : : : "lmtid":"0",  
: : : : "growth":"0"  
: : : }  
: ]  
: }  
: }

Search:  Find  Case sensitive  Regular exp.

Scroll automatically?

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_sec\_ter;mdn=9352227070



The screenshot shows the Apache JMeter interface with the following details:

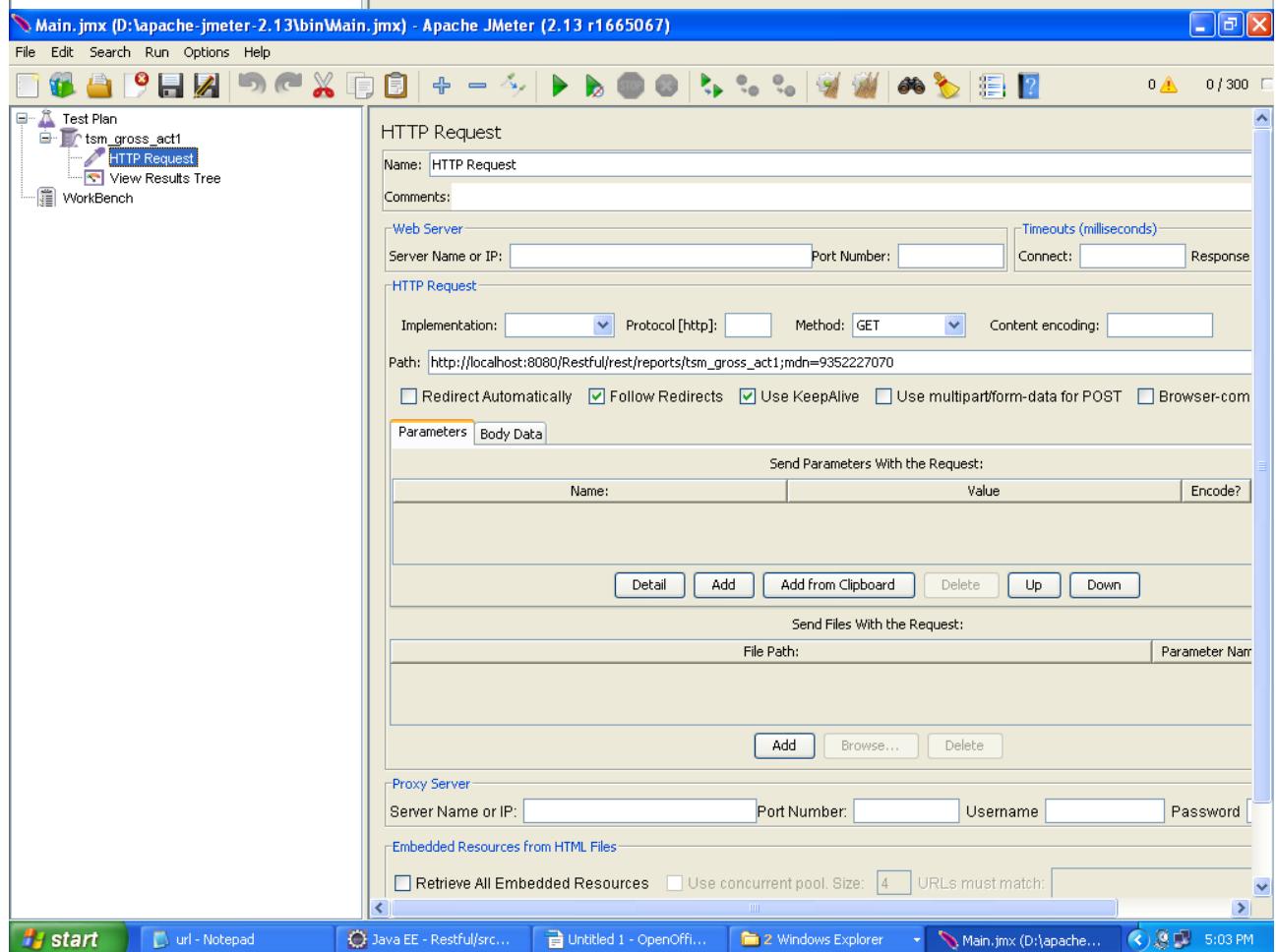
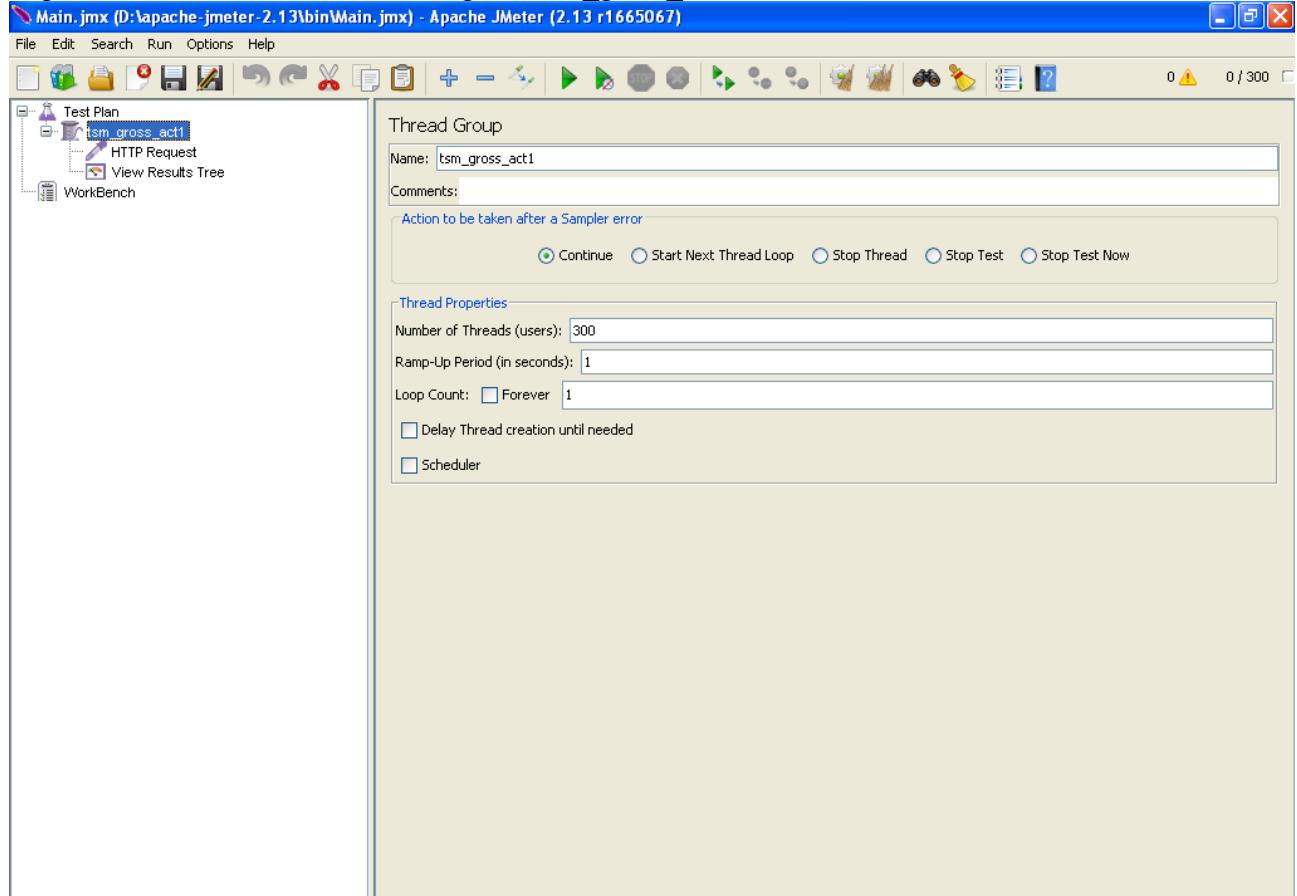
- Title Bar:** Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)
- Toolbar:** File, Edit, Search, Run, Options, Help
- Left Panel (Tree View):** Test Plan > tsm\_sec\_ter > HTTP Request > View Results Tree
- Central Panel (View Results Tree Listener):**
  - Name: View Results Tree
  - Comments:
  - Write results to file / Read from file:  [Browse...]
  - Buttons: Log/Display Only:  Errors  Successes  Configure
- Result Tree View:** Shows a tree of 20 'HTTP Request' items under 'Text'. The right panel displays the details for the first request:
  - Sampler result tab: Thread Name: tsm\_sec\_ter 1-5, Sample Start: 2015-04-06 16:59:54 GMT+05:30, Load time: 1155, Connect Time: 17, Latency: 1155, Size in bytes: 1152, Headers size in bytes: 143, Body size in bytes: 1009, Sample Count: 1, Error Count: 0, Response code: 200, Response message: OK.
  - Request tab: Response headers:
    - HTTP/1.1 200 OK
    - Server: Apache-Coyote/1.1
    - Content-Type: application/json
    - Transfer-Encoding: chunked
    - Date: Mon, 06 Apr 2015 11:29:56 GMT
  - Response data tab: HTTPSampleResult fields:
    - ContentType: application/json
    - DataEncoding: null

The screenshot shows the Apache JMeter interface with the title bar "Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)". The left sidebar shows a "Test Plan" tree with a "View Results Tree" node selected. The main area is titled "View Results Tree" and contains a "Comments:" field and a "Write results to file / Read from file" section with a "Filename" input and "Configure" button. On the right, there's a JSON tree viewer under the "HTTP Request" category and a detailed JSON response pane. The response JSON is as follows:

```
{
  "value": [
    {
      "distributors": [
        {
          "distid": "8074400128",
          "sec": [
            {
              "ftd": "45",
              "mtd": "938"
            }
          ],
          "ter": [
            {
              "ftd": "1354",
              "mtd": "25617"
            }
          ],
          "growth": [
            {
              "sec": "-1",
              "ter": "-2"
            }
          ]
        },
        {
          "distid": "6745530025",
          "sec": [
            {
              "ftd": "23",
              "mtd": "473"
            }
          ],
          "ter": [
            ...
          ]
        }
      ]
    }
  ]
}
```

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_gross\_act1;mdn=9352227070



The screenshot shows the Apache JMeter interface with the title bar "Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)". The menu bar includes File, Edit, Search, Run, Options, and Help. The toolbar contains various icons for file operations like Open, Save, and Print. The left sidebar shows a tree view of the "Test Plan" with a node "tsm\_gross\_act1" expanded, containing an "HTTP Request" and a "View Results Tree" listener. A "WorkBench" icon is also present. The main area is titled "View Results Tree". It has a "Name:" field set to "View Results Tree" and a "Comments:" field. Below these are buttons for "Write results to file / Read from file" (Filename: [Browse...]), "Log/Display Only:" (checkboxes for Errors and Successes), and "Configure". On the left is a tree view of "Text" items, all labeled "HTTP Request". To the right is a detailed "Sampler result" panel with the following data:

Sampler result
Thread Name: tsm_gross_act1 1-6
Sample Start: 2015-04-06 17:02:45 GMT+05:30
Load time: 1455
Connect Time: 5
Latency: 1455
Size in bytes: 796
Headers size in bytes: 143
Body size in bytes: 653
Sample Count: 1
Error Count: 0
Response code: 200
Response message: OK
Response headers:
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/json
Transfer-Encoding: chunked
Date: Mon, 06 Apr 2015 11:32:46 GMT
HTTPSampleResult fields:
ContentType: application/json
DataEncoding: null

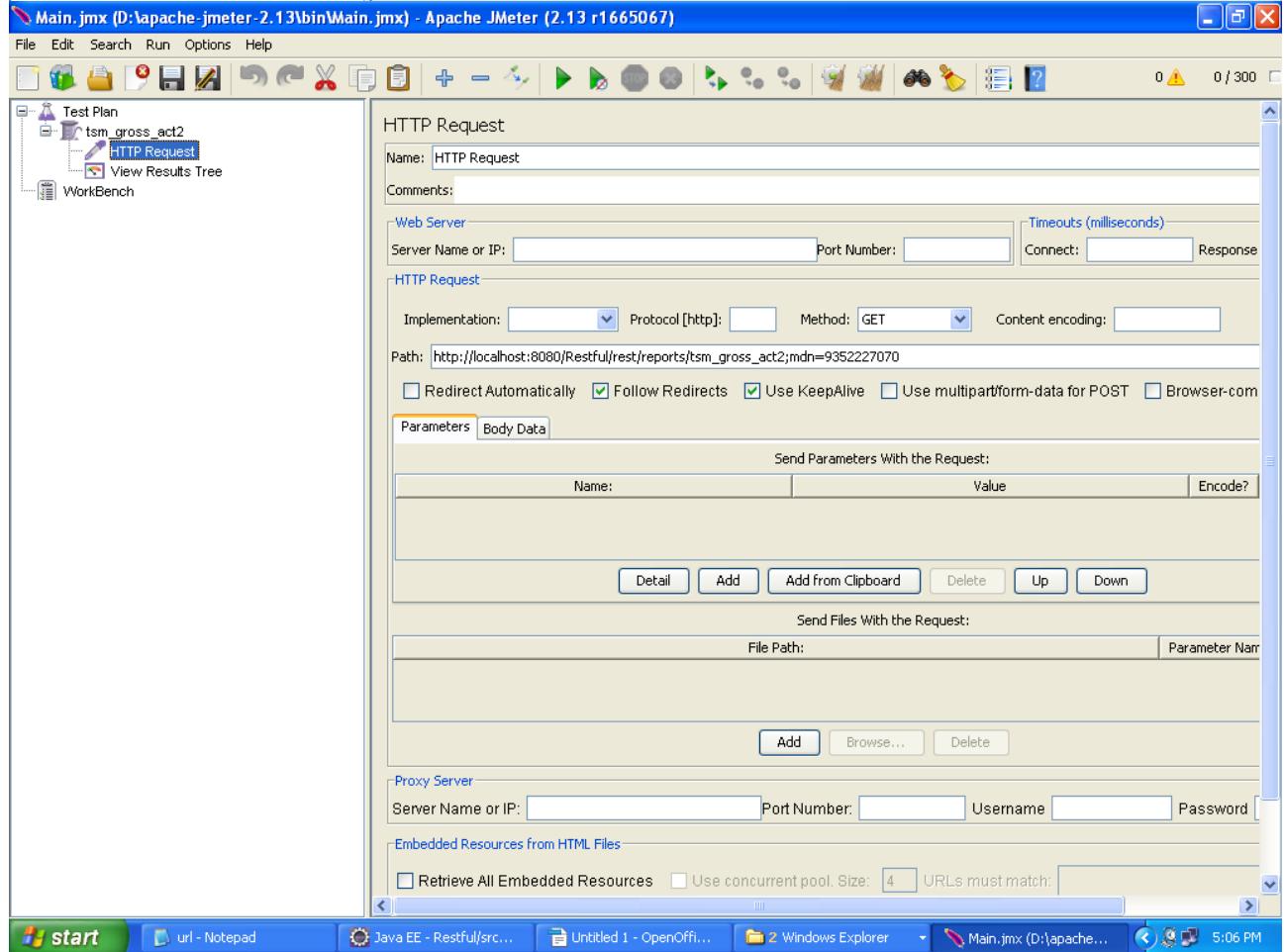
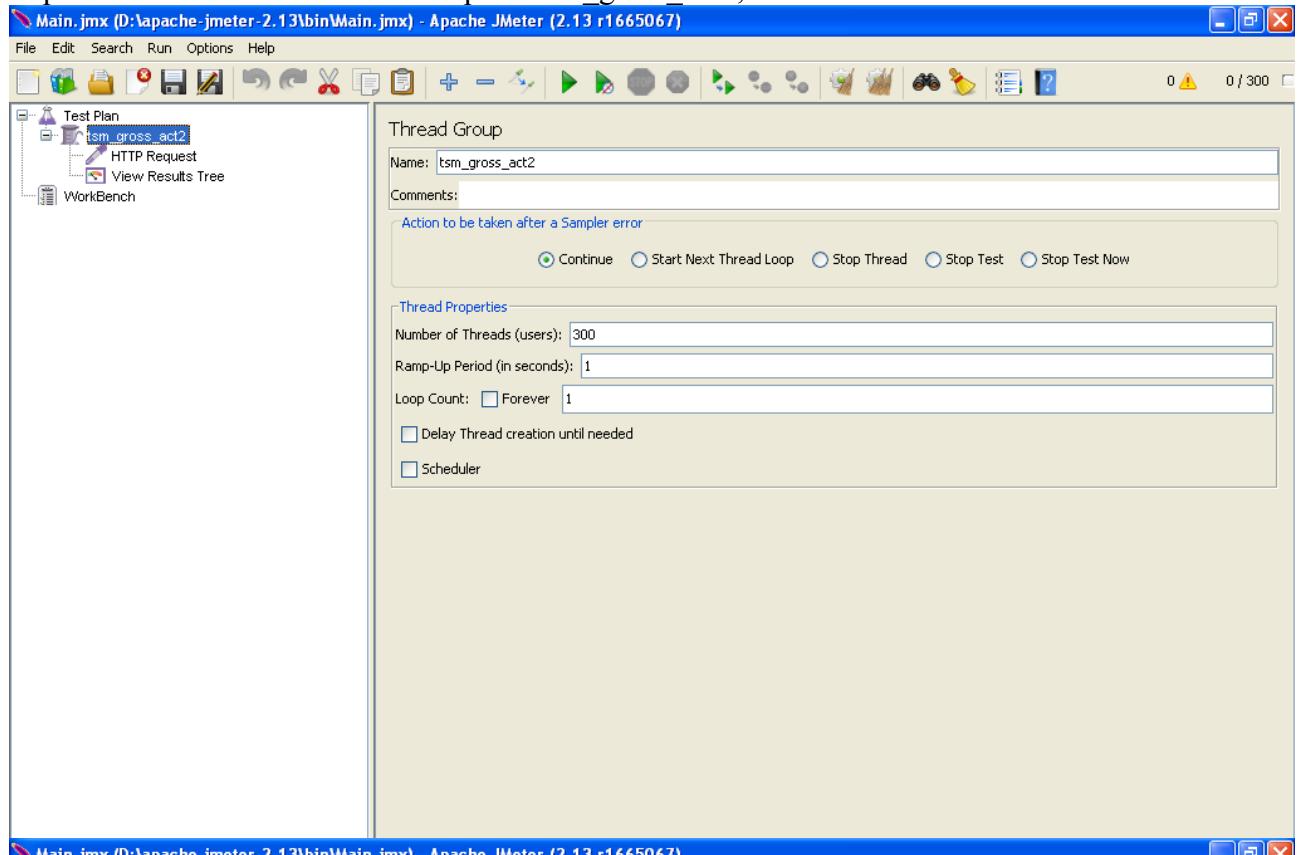
At the bottom, there are tabs for "Raw" and "Parsed", with "Parsed" selected. A checkbox "Scroll automatically?" is also visible.

The screenshot shows the Apache JMeter interface with the title bar "Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)". The menu bar includes File, Edit, Search, Run, Options, Help. The toolbar contains various icons for file operations and monitoring. The left sidebar shows a "Test Plan" tree with a single item "tsm\_gross\_act1" expanded, containing an "HTTP Request" node and a "View Results Tree" node. Below it is a "WorkBench" section. The main area is titled "View Results Tree". It has fields for "Name: View Results Tree" and "Comments:". Below these is a link "Write results to file / Read from file" with a "Filename" input field and a "Browse..." button. To the right are checkboxes for "Log/Display Only:", "Errors", "Successes", and a "Configure" button. A large central panel displays JSON data under the "Response data" tab. On the left, a tree view lists multiple "HTTP Request" entries. The JSON data on the right is as follows:

```
{
  "total": [
    {
      "act": [
        {
          "ftd": "33",
          "mtd": "1708",
          "lmtd": "2659"
        },
        {
          "ftd": "357",
          "mtd": "1719",
          "lmtd": "2651"
        },
        {
          "tvp": [
            {
              "ftd": "320",
              "mtd": "1962",
              "lmtd": "2482"
            }
          ]
        }
      ],
      "distributors": [
        {
          "distid": "6745530025",
          "act": [
            {
              "ftd": "2",
              "mtd": "256",
              "lmtd": "305"
            }
          ]
        }
      ]
    }
  ]
}
```

Input in HTTP request Path:

http://localhost:8080/Restful/rest/reports/tsm\_gross\_act2;mdn=9352227070



Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_gross\_act2
  - HTTP Request
  - View Results Tree
- WorkBench

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:  Browse... Log/Display Only:  Errors  Successes

Text

HTTP Request

Thread Name: tsm\_gross\_act2 1-220  
 Sample Start: 2015-04-06 17:06:00 GMT+05:30  
 Load time: 658  
 Connect Time: 2  
 Latency: 657  
 Size in bytes: 636  
 Headers size in bytes: 162  
 Body size in bytes: 474  
 Sample Count: 1  
 Error Count: 0  
 Response code: 200  
 Response message: OK

Response headers:  
 HTTP/1.1 200 OK  
 Server: Apache-Coyote/1.1  
 Content-Type: application/json  
 Transfer-Encoding: chunked  
 Date: Mon, 06 Apr 2015 11:36:01 GMT  
 Connection: close

HTTPSampleResult fields:  
 ContentType: application/json  
 DataEncoding: null

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_gross\_act2
  - HTTP Request
  - View Results Tree
- WorkBench

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

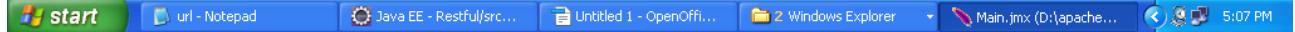
Filename:  Browse... Log/Display Only:  Errors  Successes

JSON

HTTP Request

```
{
  "total": [
    {
      "data": [
        {
          "ftd": "50",
          "mtd": "635",
          "lmtd": "499"
        },
        {
          "ftd": "3",
          "mtd": "20",
          "lmtd": "41"
        }
      ],
      "distributors": [
        {
          "distid": "6745530025",
          "data": [
            {
              "ftd": "4",
              "mtd": "67",
              "lmtd": "43"
            },
            {
              "ftd": "0",
              "mtd": "5",
              "lmtd": "10"
            }
          ]
        }
      ]
    }
  ]
}
```

Search:  Find  Case sensitive  Regular exp.



Input in HTTP request Path:

http://localhost:8080/Restful/rest/reports/tsm\_caf\_pen;mdn=8080579057

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_caf\_pen
- HTTP Request
- View Results Tree

WorkBench

Thread Group

Name: tsm\_caf\_pen

Comments:

Action to be taken after a Sampler error

Continue    Start Next Thread Loop    Stop Thread    Stop Test    Stop Test Now

Thread Properties

Number of Threads (users): 300

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 1

Delay Thread creation until needed

Scheduler

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_caf\_pen
- HTTP Request
- View Results Tree

WorkBench

HTTP Request

Name: HTTP Request

Comments:

Web Server

Server Name or IP:      Port Number:      Timeouts (milliseconds)

Connect:      Response

HTTP Request

Implementation:      Protocol [http]:      Method: GET      Content encoding:

Path: http://localhost:8080/Restful/rest/reports/tsm\_caf\_pen;mdn=8080579057

Redirect Automatically    Follow Redirects    Use KeepAlive    Use multipart/form-data for POST    Browser-com

Parameters   Body Data

Send Parameters With the Request:

Name:	Value:	Encode?

Detail   Add   Add from Clipboard   Delete   Up   Down

Send Files With the Request:

File Path:      Parameter Name

Add   Browse...   Delete

Proxy Server

Server Name or IP:      Port Number:      Username:      Password:

Embedded Resources from HTML Files

Retrieve All Embedded Resources    Use concurrent pool. Size: 4    URLs must match:

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree  
Comments:

Write results to file / Read from file

Sampler result Request Response data

Text

HTTP Request

Thread Name: tsm\_caf\_pen 1-32  
Sample Start: 2015-04-06 17:09:07 GMT+05:30  
Load time: 533  
Connect Time: 116  
Latency: 533  
Size in bytes: 555  
Headers size in bytes: 143  
Body size in bytes: 412  
Sample Count: 1  
Error Count: 0  
Response code: 200  
Response message: OK

Response headers:  
HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Content-Type: application/json  
Transfer-Encoding: chunked  
Date: Mon, 06 Apr 2015 11:39:07 GMT

HTTPSampleResult fields:  
ContentType: application/json  
DataEncoding: null

Raw Parsed

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree  
Comments:

Write results to file / Read from file

Sampler result Request Response data

JSON

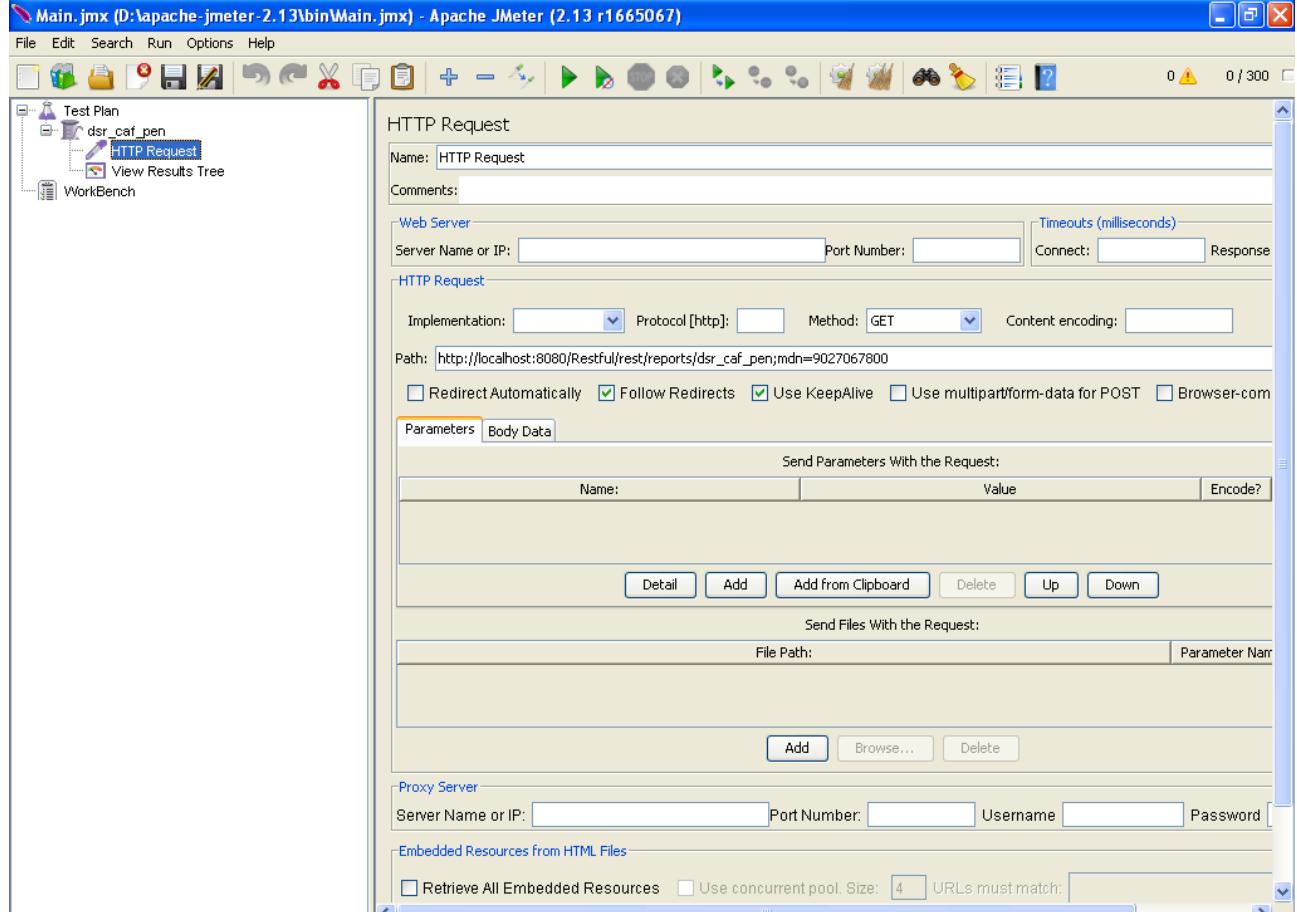
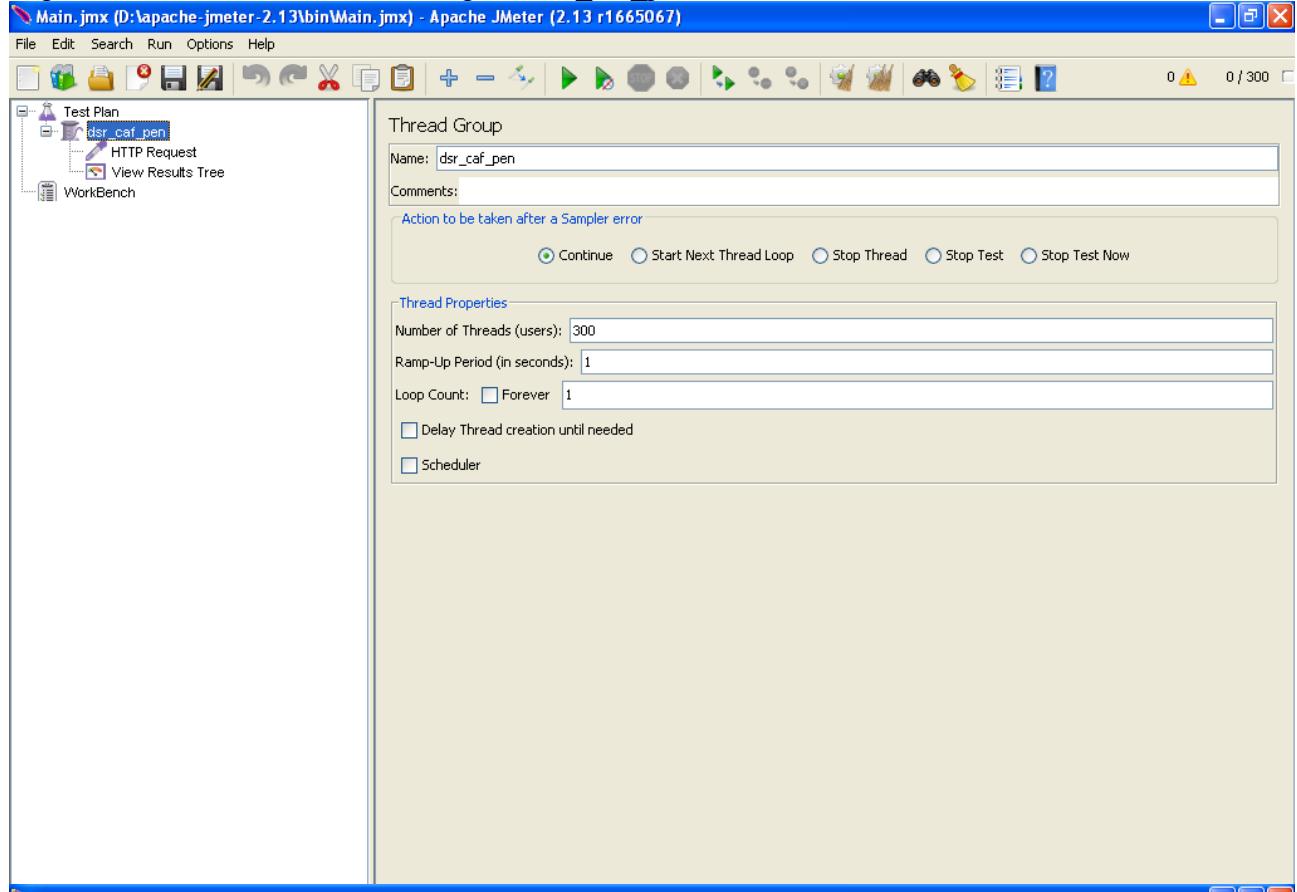
HTTP Request

```
{
  "total": [
    {
      "6hrs": "273",
      "612hrs": "0",
      "1224hrs": "0",
      "24hrs": "0"
    }
  ],
  "distributors": [
    [
      {
        "distid": "7303789999",
        "dsrs": [
          [
            {
              "dsrid": "9699311319",
              "6hrs": "155",
              "612hrs": "0",
              "1224hrs": "0",
              "24hrs": "0"
            }
          ],
          {
            "6hrs": "155",
            "612hrs": "0",
            "1224hrs": "0",
            "24hrs": "0"
          },
          {
            "distid": "9699888334",
            "dsrs": [
              [
                ...
              ]
            ]
          }
        ]
      }
    ]
  ]
}
```

Search: Find Case sensitive Regular exp.

Input in HTTP request Path:

http://localhost:8080/Restful/rest/reports/dsr\_caf\_pen;mdn=9027067800



The screenshot shows the Apache JMeter interface with the title bar "Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)". The left sidebar displays the "Test Plan" tree, which includes a "dsr\_caf\_pen" folder containing an "HTTP Request" and a "View Results Tree" item. The "View Results Tree" item is currently selected. The main panel is titled "View Results Tree" and contains the following details:

- Name:** View Results Tree
- Comments:** (empty)
- Write results to file / Read from file**: A "Filename" input field and a "Browse..." button.
- Buttons:** Log/Display Only:  Errors  Successes  Configure

The results tree on the left shows a hierarchical structure of 20 "HTTP Request" nodes under the "dsr\_caf\_pen" folder. The right panel displays the "Sampler result" tab, which provides the following summary for the first request:

- Thread Name: dsr\_caf\_pen-1-42
- Sample Start: 2015-04-06 17:12:46 GMT+05:30
- Load time: 2316
- Connect Time: 91
- Latency: 2316
- Size in bytes: 1653
- Headers size in bytes: 143
- Body size in bytes: 1510
- Sample Count: 1
- Error Count: 0
- Response code: 200
- Response message: OK

The "Response headers:" section lists:

- HTTP/1.1 200 OK
- Server: Apache-Coyote/1.1
- Content-Type: application/json
- Transfer-Encoding: chunked
- Date: Mon, 06 Apr 2015 11:42:48 GMT

The "HTTPSampleResult fields:" section lists:

- ContentType: application/json
- DataEncoding: null

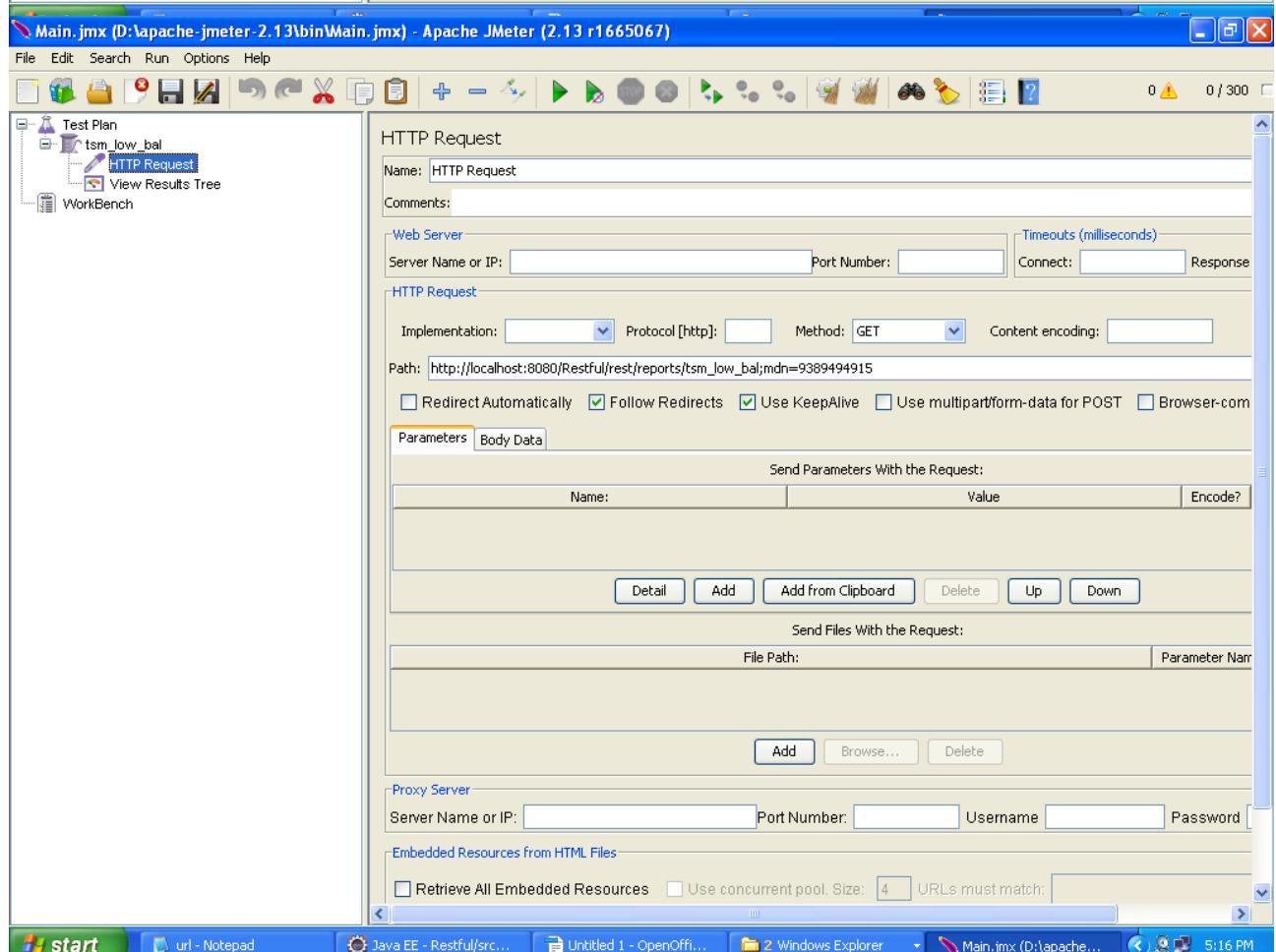
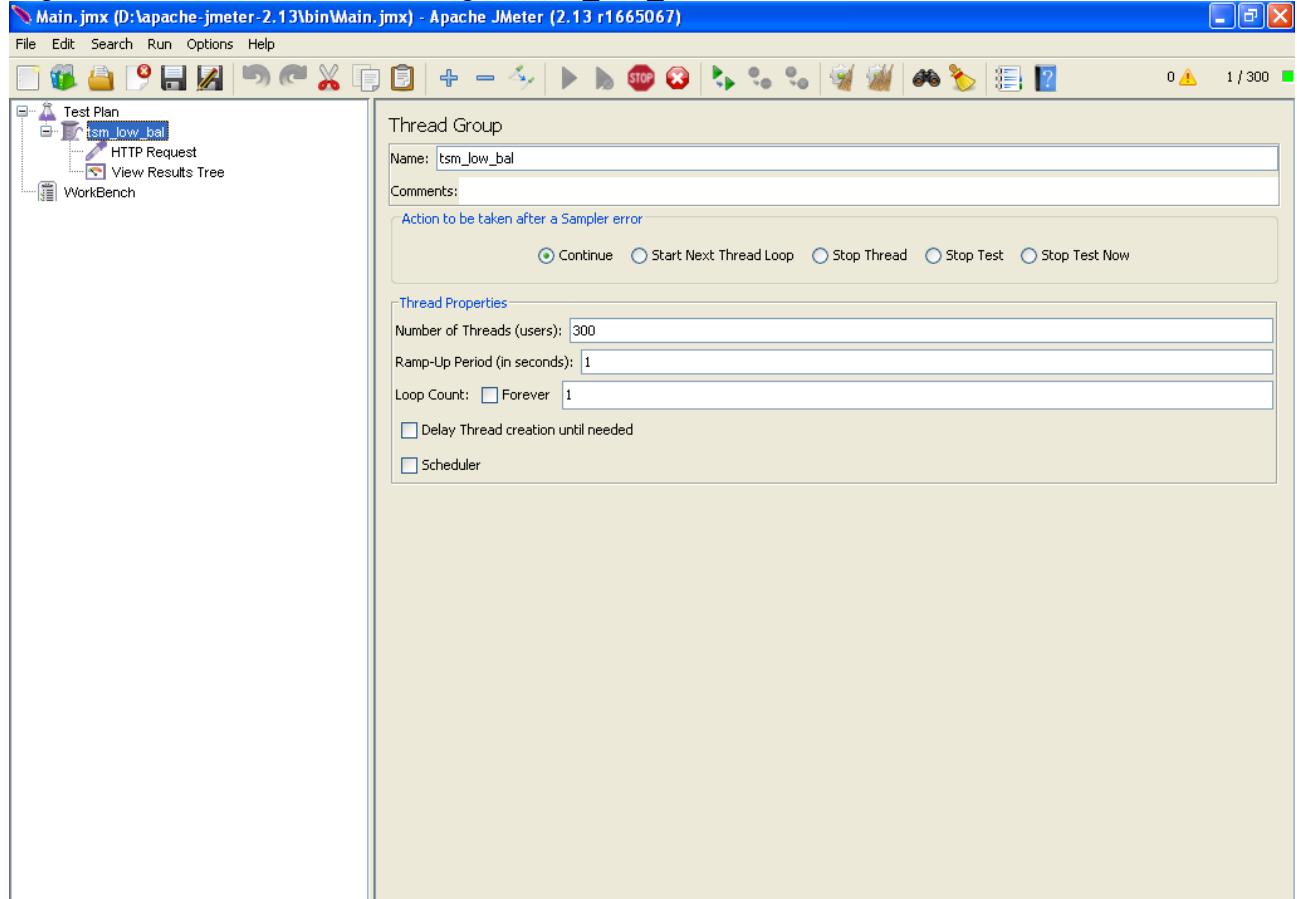
The screenshot shows the Apache JMeter interface with the title bar "Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)". The left sidebar displays a "Test Plan" tree with a single node "dsr\_caf\_pen" containing an "HTTP Request" and a "View Results Tree" listener. The main panel is titled "View Results Tree" and contains a configuration section with "Name: View Results Tree", "Comments:", and a "Write results to file / Read from file" section with a "Filename" field and "Browse..." button. Below this are checkboxes for "Log/Display Only", "Errors", "Successes", and "Configure". The central area shows a JSON tree on the left and a large text area on the right displaying the raw response data. The JSON tree has many collapsed "HTTP Request" nodes. The raw response data is a JSON array of objects representing distributor information:

```
{
  "Distributors": [
    {
      "distid": "8881871444",
      "6hrs": "0",
      "612hrs": "0",
      "1224hrs": "0",
      "24hrs": "0"
    },
    {
      "distid": "8307452886",
      "6hrs": "0",
      "612hrs": "0",
      "1224hrs": "0",
      "24hrs": "0"
    },
    {
      "distid": "9548619156",
      "6hrs": "0",
      "612hrs": "0",
      "1224hrs": "0",
      "24hrs": "0"
    },
    {
      "distid": "9528352121",
      "6hrs": "0",
      "612hrs": "0",
      "1224hrs": "0",
      "24hrs": "0"
    }
  ]
}
```

At the bottom, there are checkboxes for "Find", "Case sensitive", and "Regular exp.", and a "Search:" input field.

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_low\_bal;mdn=9389494915



Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_low\_bal
  - HTTP Request
  - View Results Tree
- WorkBench

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:  Browse... Log/Display Only:  Errors  Successes

Text

Sampler result

Thread Name: tsm\_low\_bal 1-5  
 Sample Start: 2015-04-06 17:15:30 GMT+05:30  
 Load time: 473  
 Connect Time: 149  
 Latency: 473  
 Size in bytes: 794  
 Headers size in bytes: 143  
 Body size in bytes: 651  
 Sample Count: 1  
 Error Count: 0  
 Response code: 200  
 Response message: OK

Response headers:

HTTP/1.1 200 OK  
 Server: Apache-Coyote/1.1  
 Content-Type: application/json  
 Transfer-Encoding: chunked  
 Date: Mon, 06 Apr 2015 11:45:30 GMT

HTTPSampleResult fields:

ContentType: application/json  
 DataEncoding: null

Raw Parsed

Scroll automatically?

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

Test Plan

- tsm\_low\_bal
  - HTTP Request
  - View Results Tree
- WorkBench

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:  Browse... Log/Display Only:  Errors  Successes

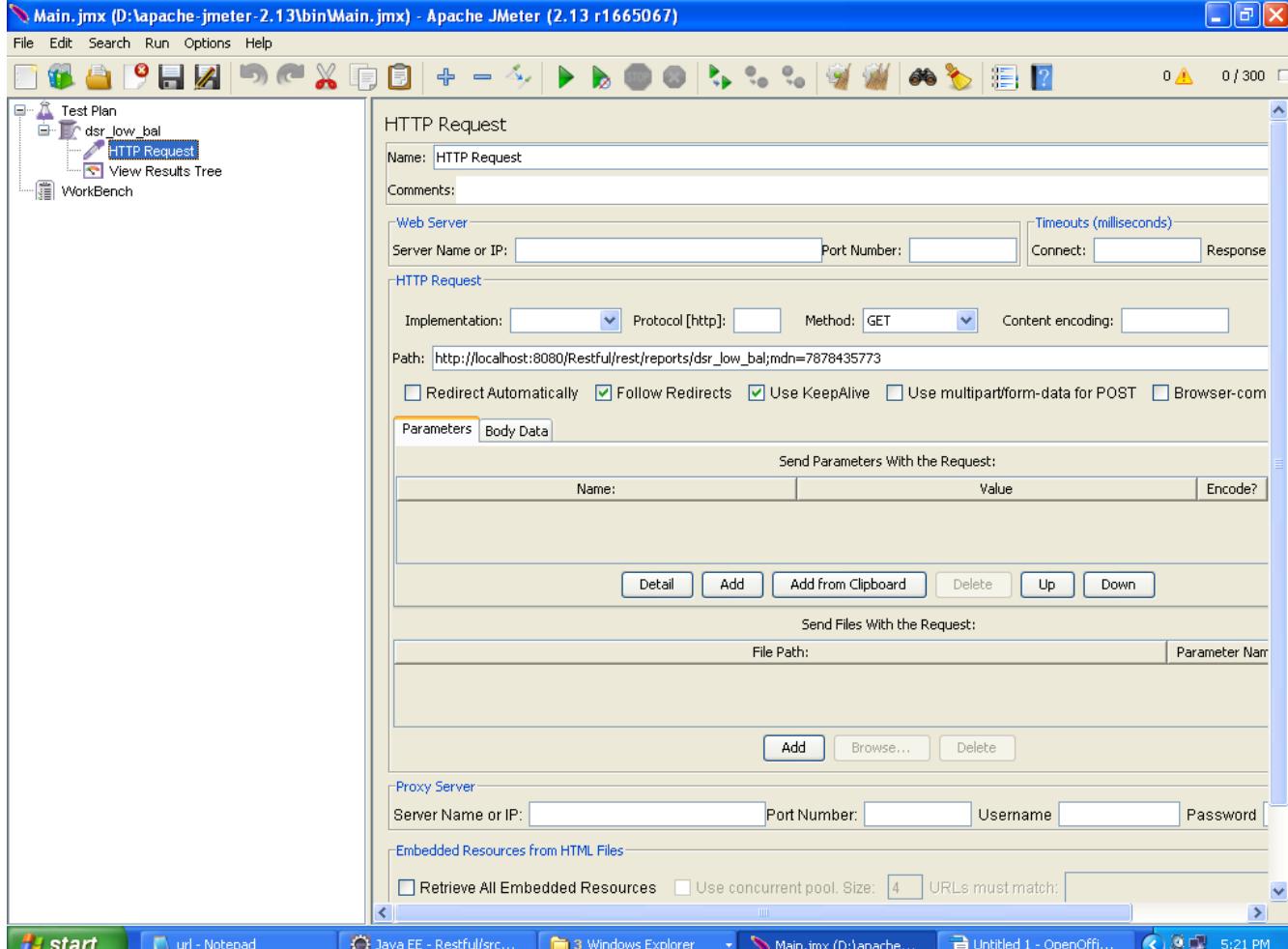
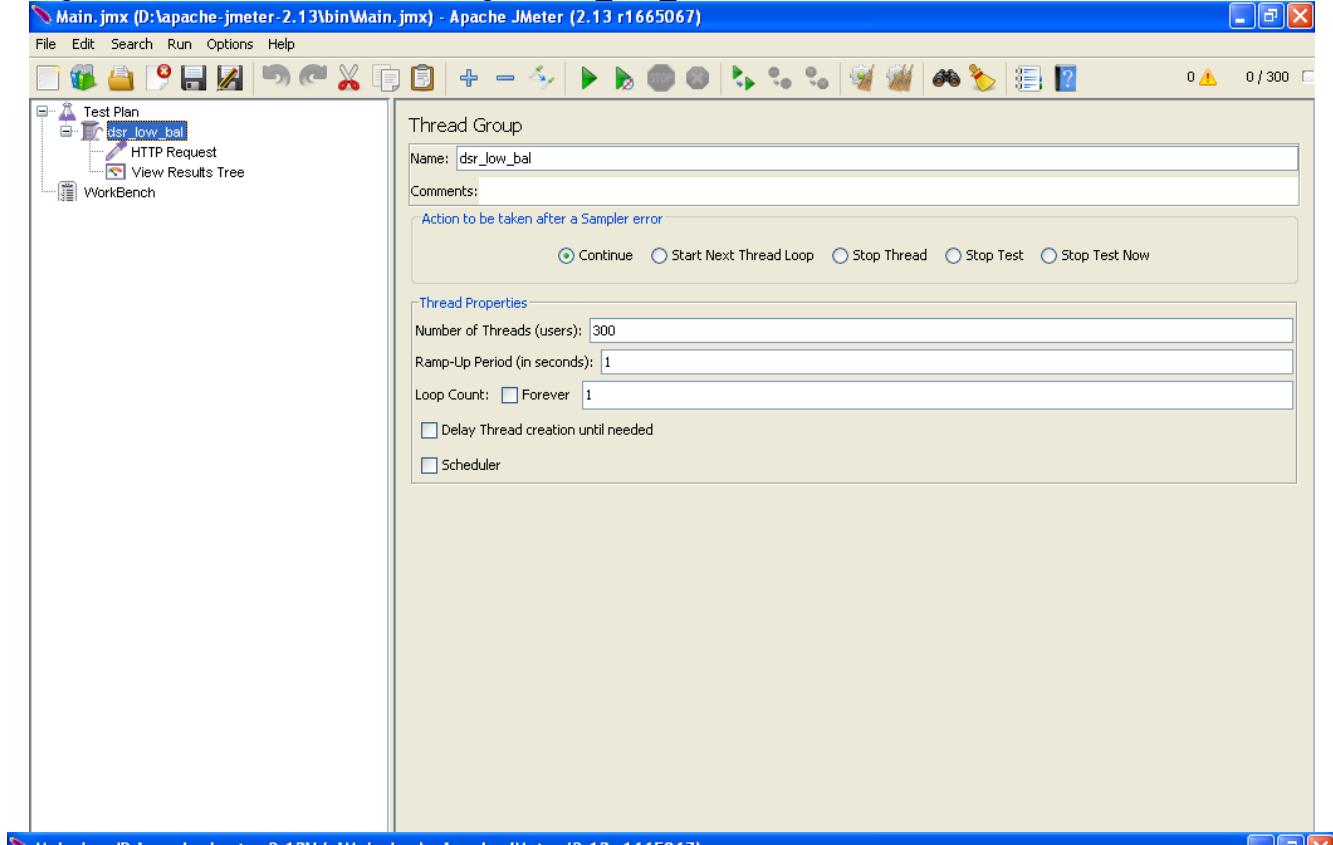
JSON

```
{
  "total": [
    {
      "ol1days": "23",
      "ol2days": "34",
      "ol3days": "45"
    },
    {
      "distributors": [
        {
          "distid": "9319999997",
          "dsrs": [
            {
              "dsrid": "9358580011",
              "ol1days": "3",
              "ol2days": "6",
              "ol3days": "8"
            }
          ],
          "ol1days": "3",
          "ol2days": "5",
          "ol3days": "8"
        },
        {
          "distid": "9319181234",
          "dsrs": [
            {
              "dsrid": "9548281100",
              "ol1days": "6",
              "ol2days": "9",
              "ol3days": "12"
            }
          ],
          "ol1days": "6",
          "ol2days": "9",
          "ol3days": "12"
        }
      ]
    }
  ]
}
```

Search:  Find  Case sensitive  Regular exp.

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/dsr\_low\_bal;mdn=7878435773



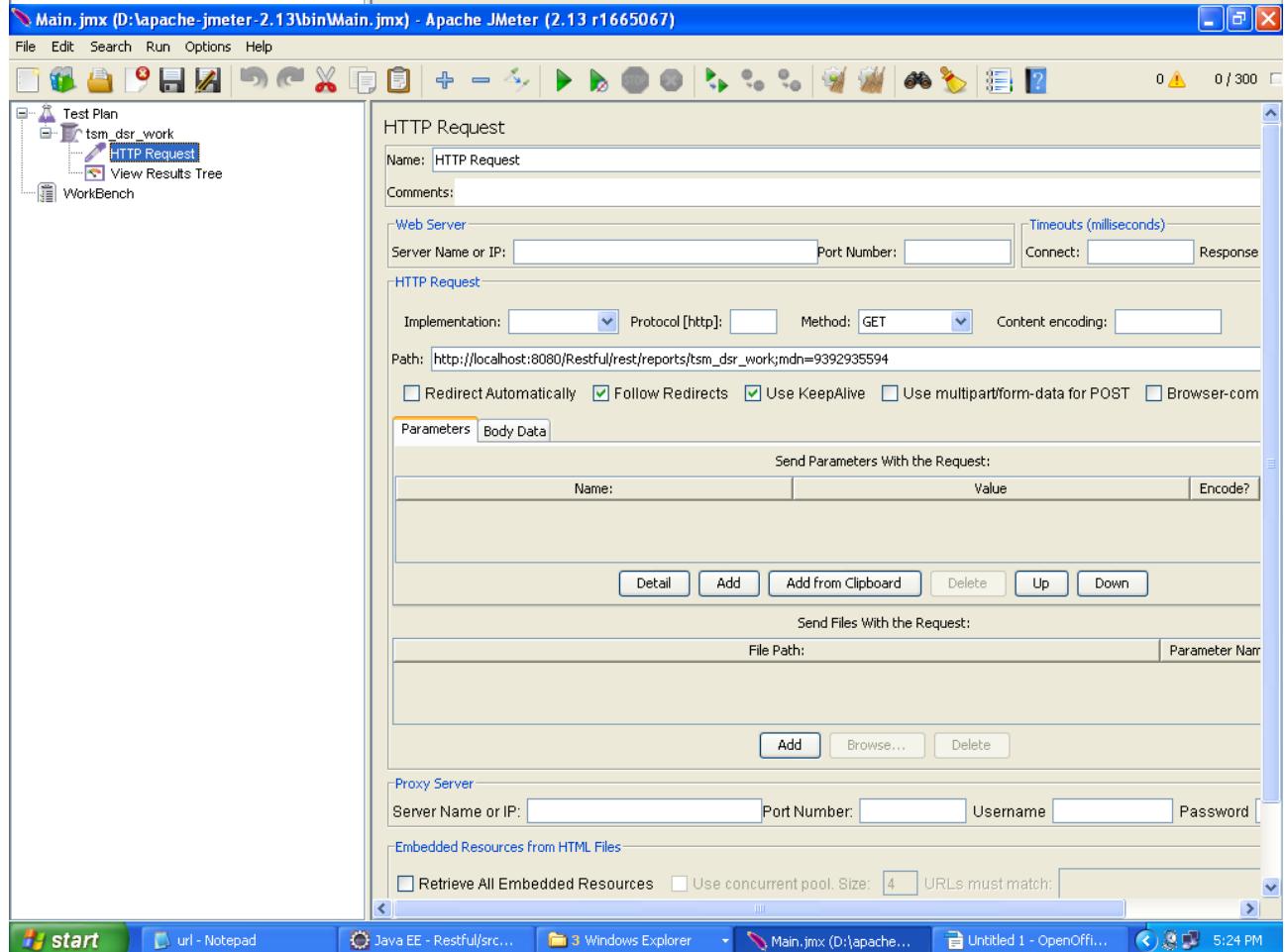
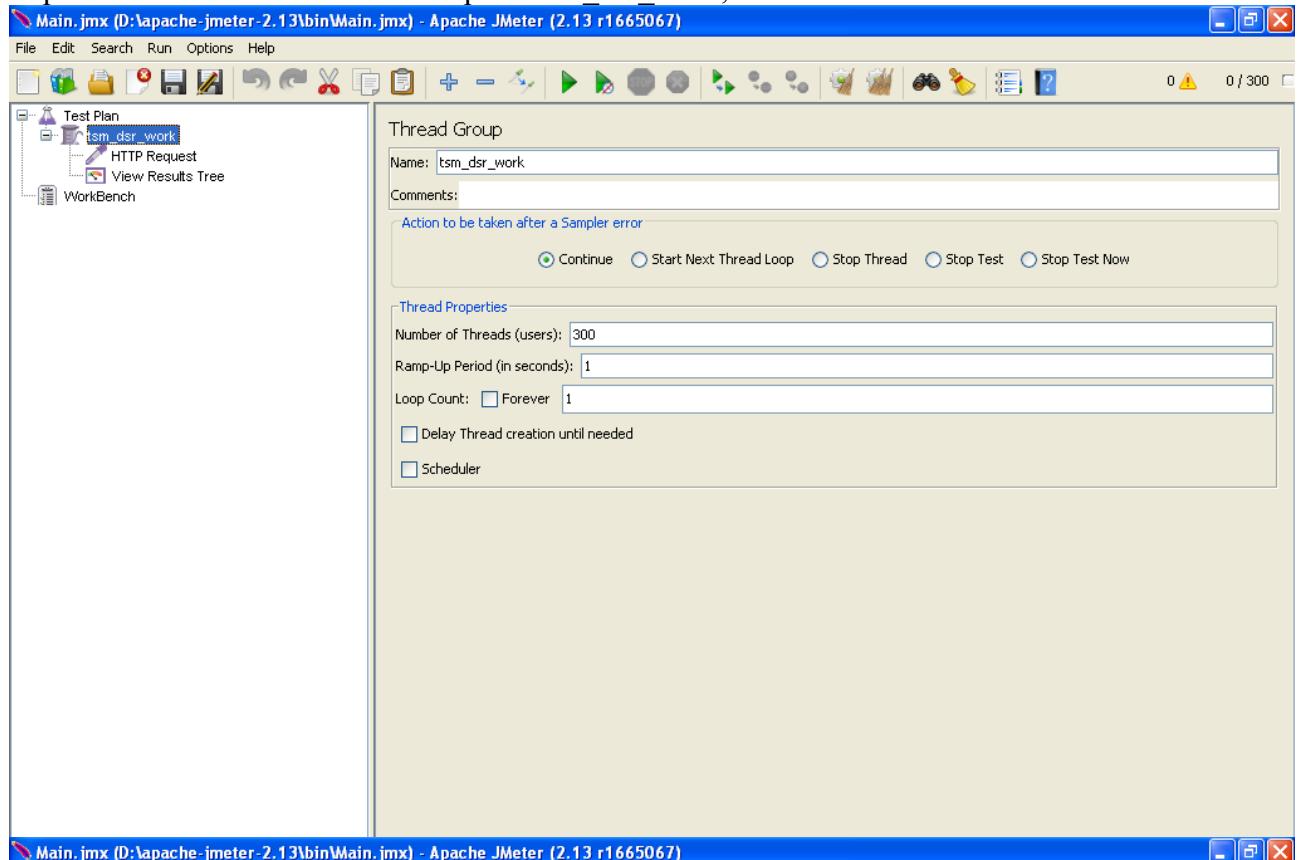
The screenshot shows the Apache JMeter interface with the following details:

- Title Bar:** Main.jmx (D:\apache-jmeter-2.13\bin>Main.jmx) - Apache JMeter (2.13 r1665067)
- Menu Bar:** File, Edit, Search, Run, Options, Help
- Toolbar:** Includes icons for Test Plan, WorkBench, and various JMeter functions.
- Test Plan Tree:** Shows a 'Test Plan' node with a child 'dsr\_low\_bal' node, which contains an 'HTTP Request' and a 'View Results Tree' listener.
- View Results Tree Listener:** The 'View Results Tree' listener is selected. Its configuration includes:
  - Name: View Results Tree
  - Comments: (empty)
  - Write results to file / Read from file: (disabled)
  - Filename: (empty)
  - Browse... button
  - Log/Display Only: (unchecked)
  - Errors: (unchecked)
  - Successes: (unchecked)
  - Configure button
- Result Tree Panel:** Displays a JSON tree structure under the 'HTTP Request' node. The JSON output is as follows:

```
{ "Low Balance O_L": [ "8690934251", "8905398153", "8905333230", "9510668771", "8000784749", "9016138066", "7878424542" ] }
```
- Search Bar:** At the bottom, there is a search bar with fields for 'Search:', 'Find', 'Case sensitive', and 'Regular exp.'

Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_dsr\_work;mdn=9392935594



Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree  
Comments:

Write results to file / Read from file

Sampler result Request Response data

Text

HTTP Request

Thread Name: tsm\_dsr\_work 1-3  
Sample Start: 2015-04-06 17:23:39 GMT+05:30  
Load time: 954  
Connect Time: 56  
Latency: 954  
Size in bytes: 691  
Headers size in bytes: 143  
Body size in bytes: 548  
Sample Count: 1  
Error Count: 0  
Response code: 200  
Response message: OK

Response headers:  
HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Content-Type: application/json  
Transfer-Encoding: chunked  
Date: Mon, 06 Apr 2015 11:53:40 GMT

HTTPSampleResult fields:  
ContentType: application/json  
DataEncoding: null

Raw Parsed

Scroll automatically?

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree  
Comments:

Write results to file / Read from file

Sampler result Request Response data

JSON

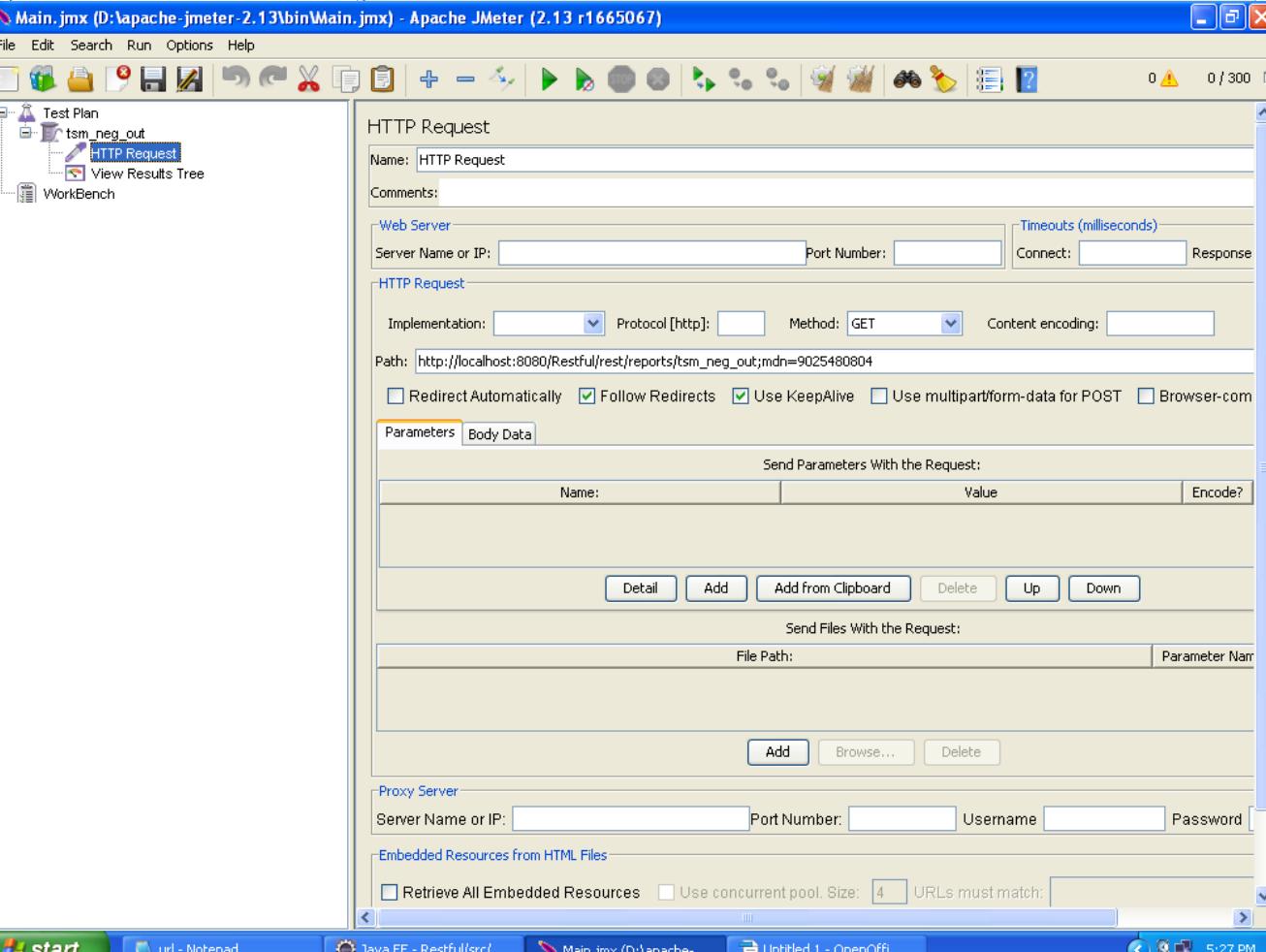
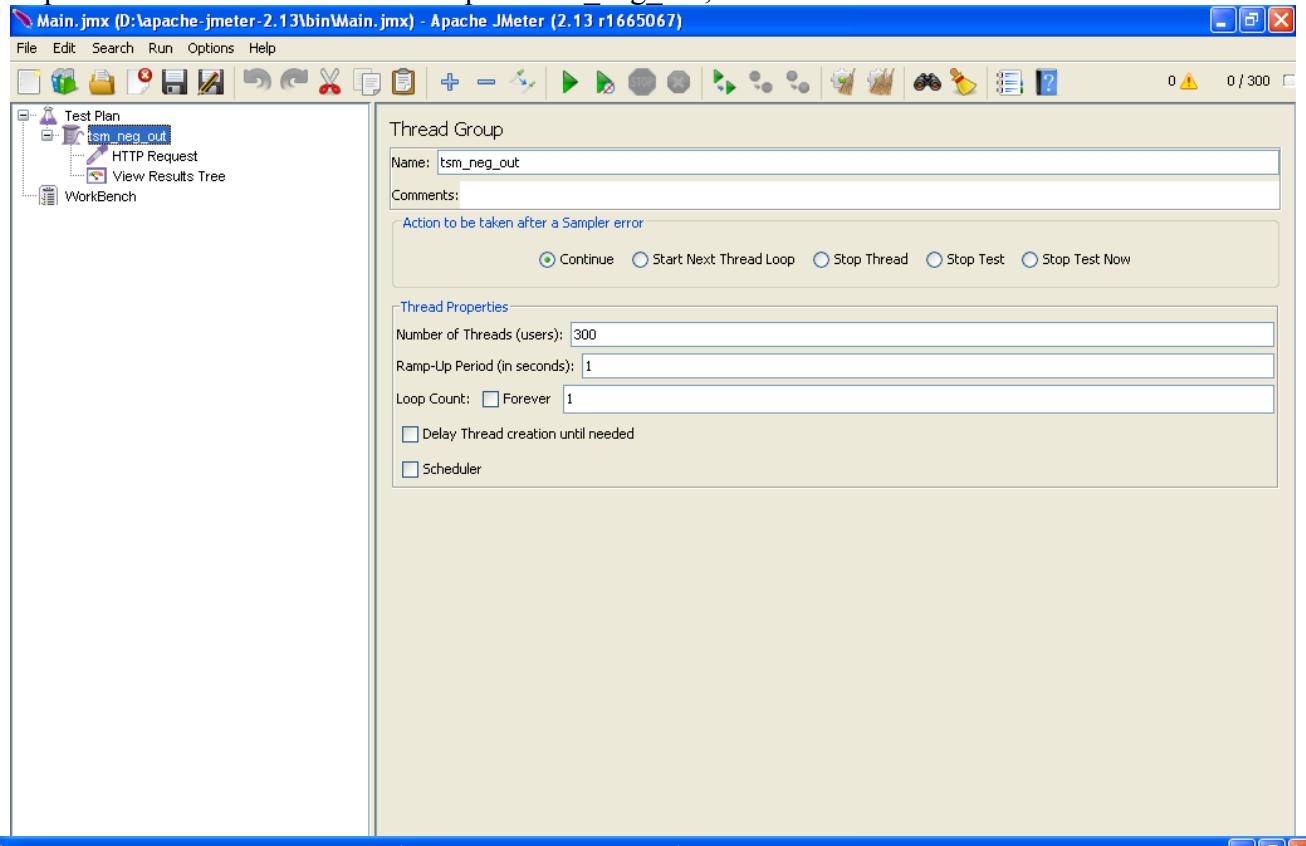
```
{
  "total": 1,
  "distributors": [
    {
      "distid": "569662999",
      "newOutletsAdded": 2,
      "o1NotBilledMtd": 1,
      "lowBalOfTdt": 2,
      "first3Tran": 0
    }
  ],
  "dsrs": [
    {
      "dsrid": "9014403860",
      "newOutletsAdded": 2,
      "o1NotBilledMtd": 1,
      "lowBalOfTdt": 2,
      "first3Tran": "No"
    },
    {
      "distid": "9390544246",
      "newOutletsAdded": 0,
      "o1NotBilledMtd": 14,
      "lowBalOfTdt": 1
    }
  ]
}
```

Search: Find Case sensitive Regular exp.

Scroll automatically?

Input in HTTP request Path :

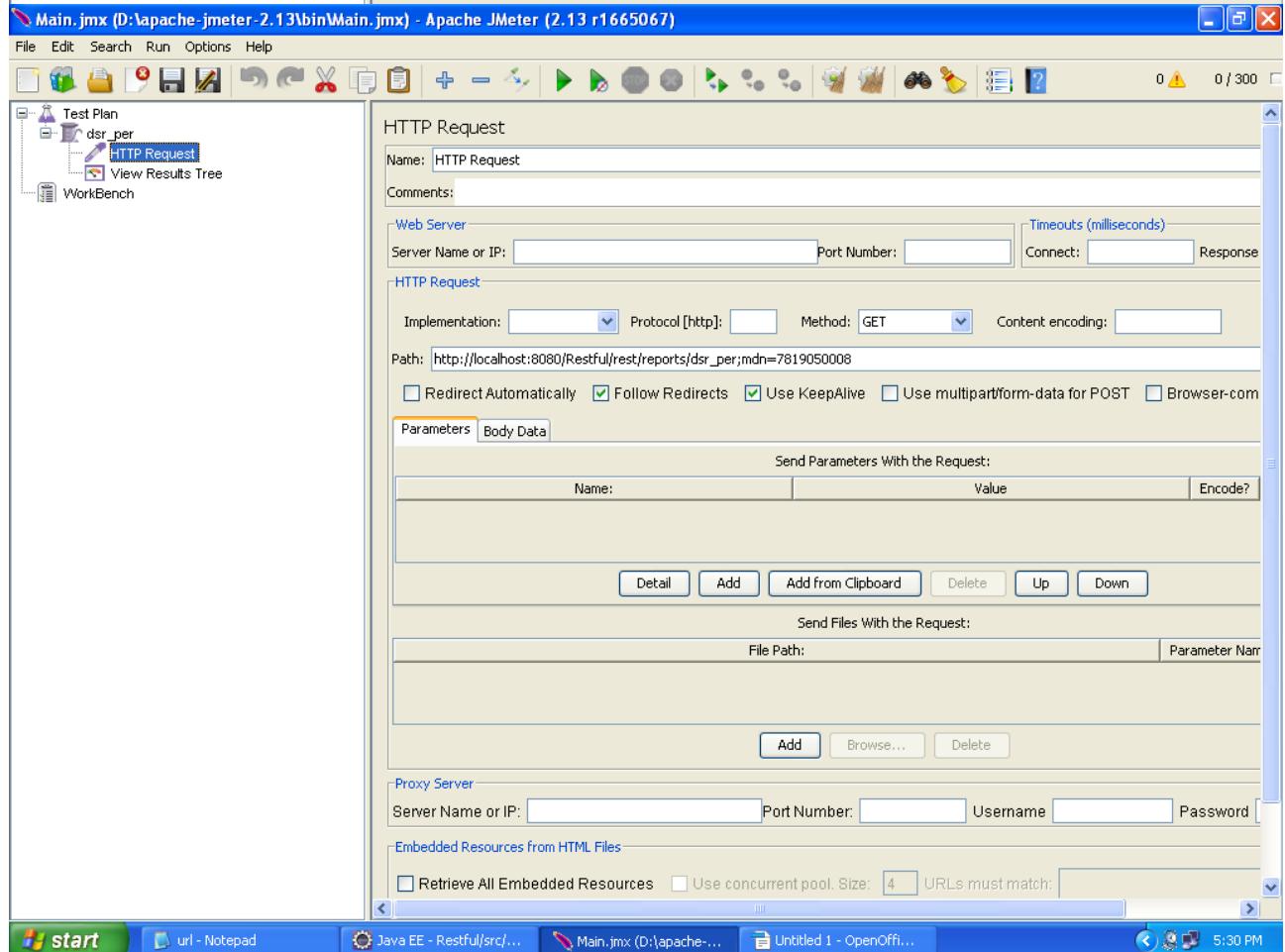
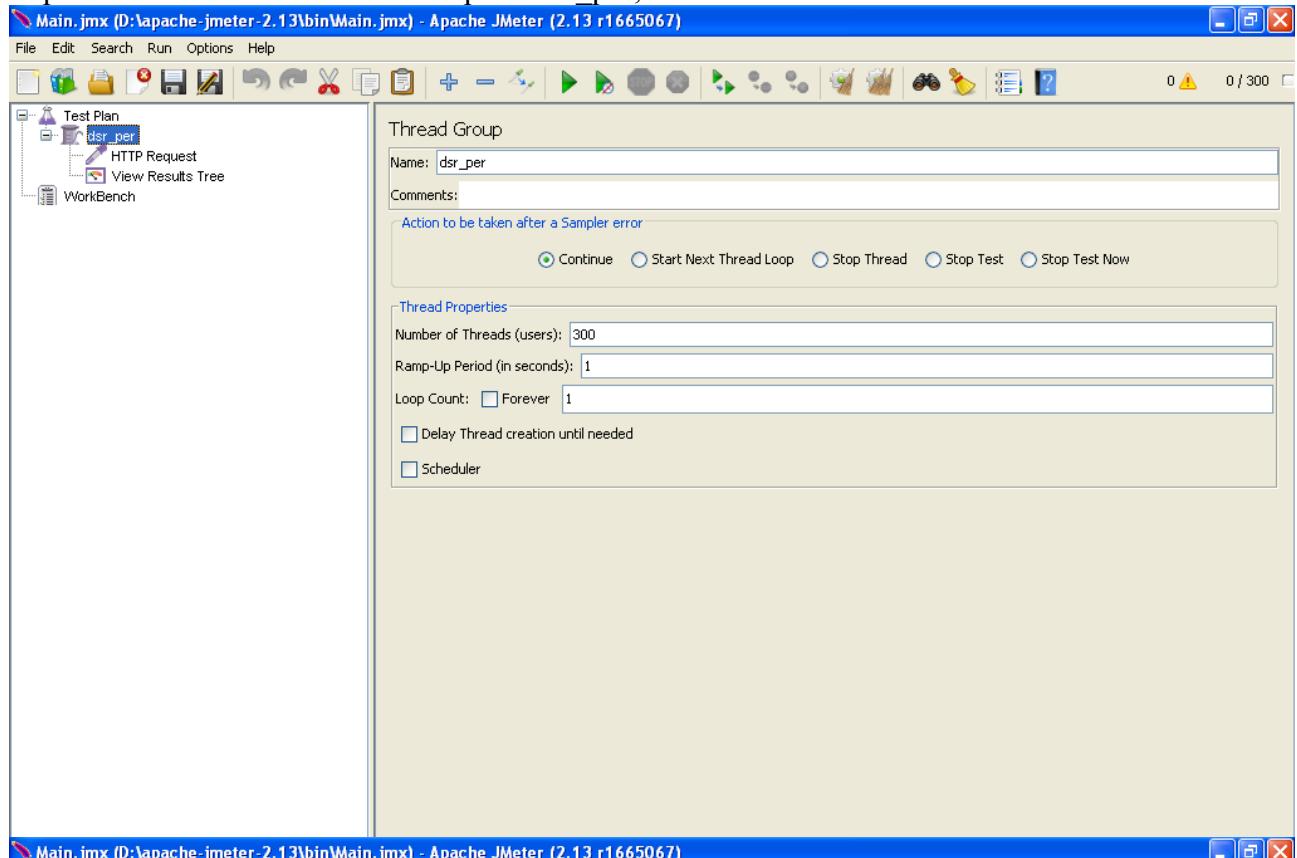
http://localhost:8080/Restful/rest/reports/tsm\_neg\_out;mdn=9025480804





Input in HTTP request Path :

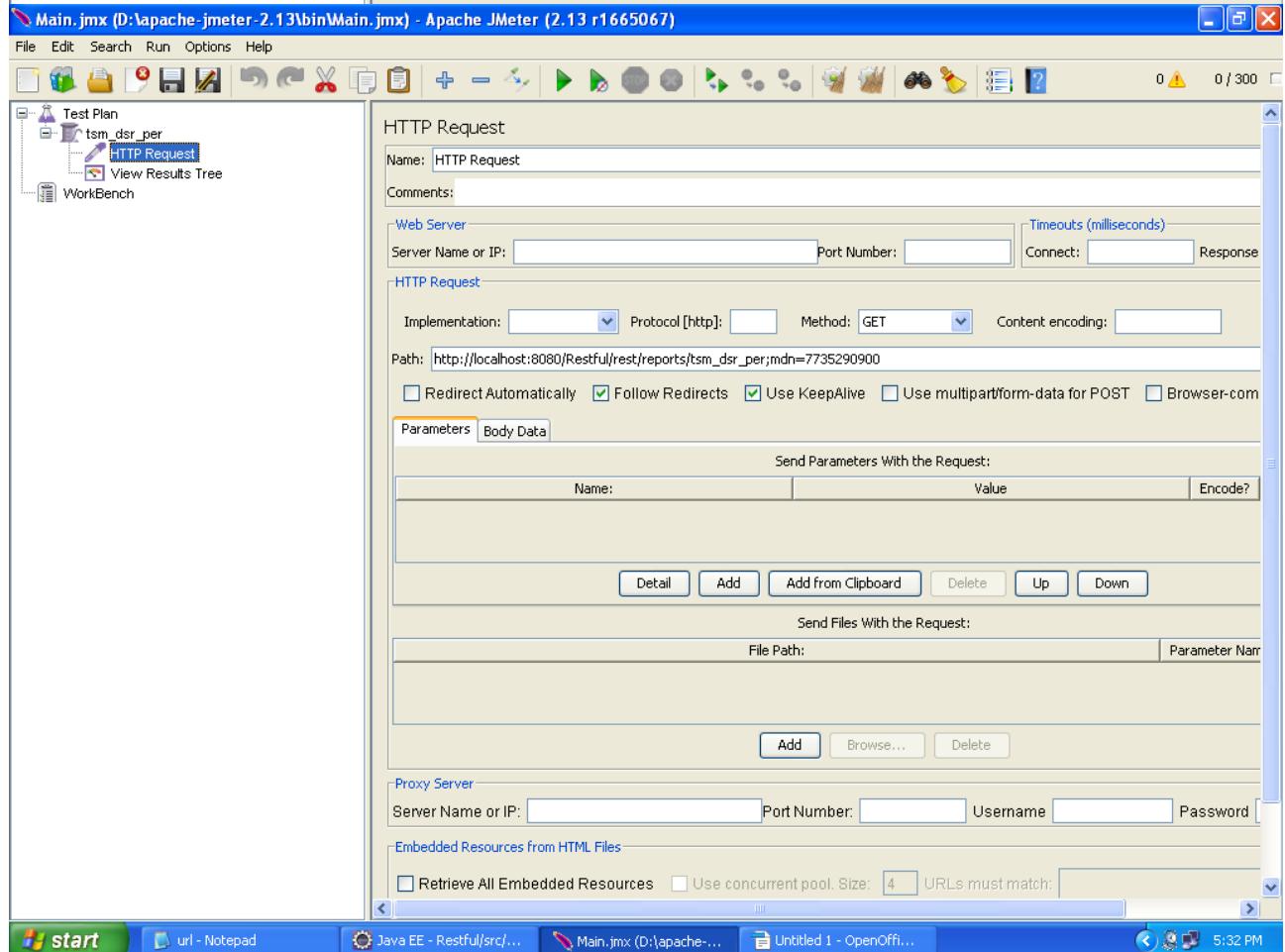
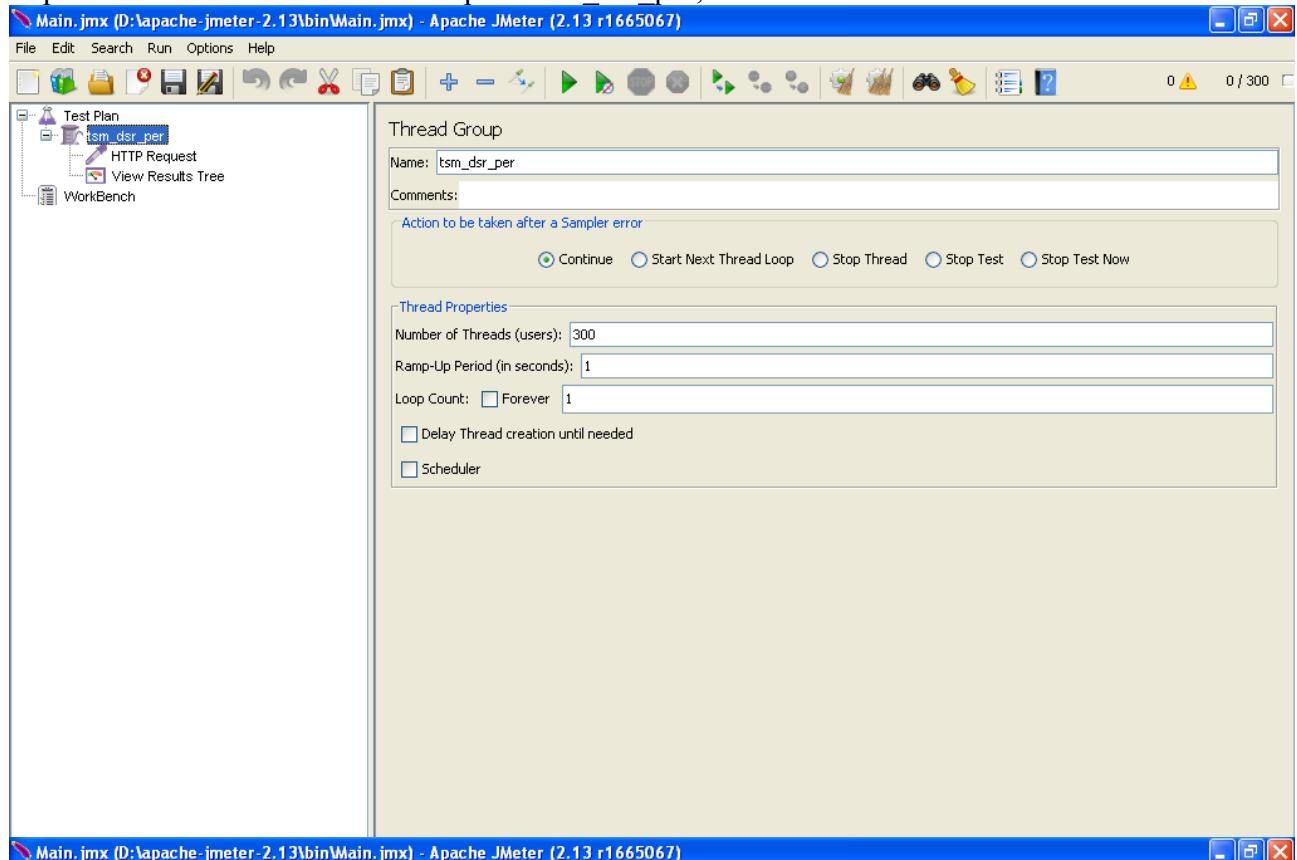
http://localhost:8080/Restful/rest/reports/dsr\_per;mdn=7819050008





Input in HTTP request Path :

http://localhost:8080/Restful/rest/reports/tsm\_dsr\_per;mdn=7735290900



Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Sampler result Request Response data

Text

Thread Name: tsm\_dsr\_per 1-76  
 Sample Start: 2015-04-06 17:32:14 GMT+05:30  
 Load time: 384  
 Connect Time: 2  
 Latency: 384  
 Size in bytes: 741  
 Headers size in bytes: 143  
 Body size in bytes: 598  
 Sample Count: 1  
 Error Count: 0  
 Response code: 200  
 Response message: OK

Response headers:  
 HTTP/1.1 200 OK  
 Server: Apache-Coyote/1.1  
 Content-Type: application/json  
 Transfer-Encoding: chunked  
 Date: Mon, 06 Apr 2015 12:02:15 GMT

HTTPSampleResult fields:  
 ContentType: application/json  
 DataEncoding: null

Raw Parsed

Main.jmx (D:\apache-jmeter-2.13\bin\Main.jmx) - Apache JMeter (2.13 r1665067)

File Edit Search Run Options Help

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Sampler result Request Response data

JSON

```
{
  "total": [
    {
      "uso": "86/74",
      "uaa": "4958/4669",
      "dro": "31/52",
      "dao": "7/9"
    },
    {
      "distributors": [
        {
          "distid": "9337344914",
          "uso": "14/13",
          "uaa": "464/406",
          "dro": "0/10",
          "dao": "0/0",
          "dsrs": [
            {
              "dsrid": "9861999911",
              "uso": "14/13",
              "uaa": "464/406",
              "dro": "0/10",
              "dao": "0/0"
            }
          ]
        },
        {
          "distid": "9338226232",
          "uso": "19/8",
          "uaa": "966/924",
          "dro": "0/0",
          "dao": "0/0"
        }
      ]
    }
  ]
}
```

Search: Find Case sensitive Regular exp.

start url - Notepad Java EE - Restful/src... Main.jmx (D:\apache-... Untitled 1 - OpenOffi... 5:33 PM

Conclusion : This load testing gives us the maximum number of user that can send a request in second.

Maximum 300 request cant be send to the server in 1 second with efficient output of server.

References :-

<http://jmeter.apache.org>

Download link for jemeter:-

<http://psg.mtu.edu/pub/apache//jmeter/binaries/apache-jmeter-2.13.zip>