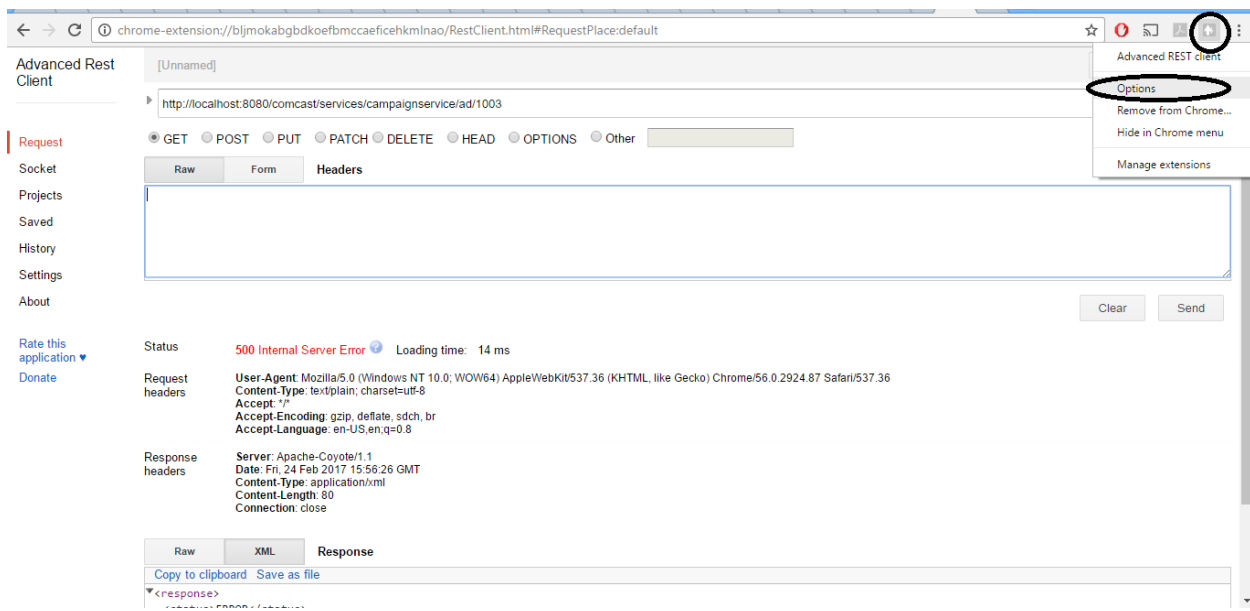


Comcast Web Service

Steps to follow to run to web service.

1. Install the “Advanced REST Client” plugin in google chrome.
 2. Import the project as Maven project from Github @ <https://github.com/manishchandra1801/comcast> in Eclipse
 3. Set project runtime to Tomcat 8.0 in Eclipse.
 4. Update maven project and add maven dependencies in Eclipse
 5. Run on Tomcat Server using Eclipse.
4. Now open the “Advanced REST Client” in google chrome by clicking on “options”



6. Now enter the following URL:

<http://localhost:8080/comcast/services/campaignservice/ad>

-Select POST

-send this data

<Campaign>

<partner_id>1000</partner_id>

<duration>60</duration>

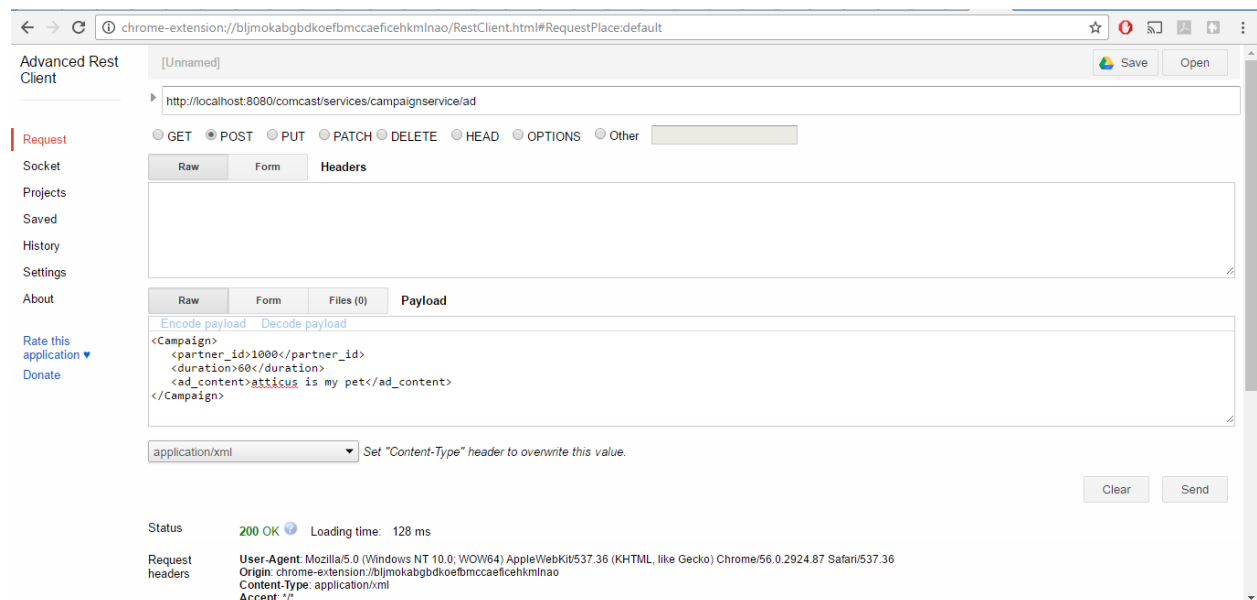
<ad_content>Atticus is my pet</ad_content>

</Campaign>

Or

```
{ "partner_id": "1000", "duration": 60, "ad_content": "atticus is my pet" }
```

-Hit "Send"



7. Now enter the following URL:

<http://localhost:8080/comcast/services/campaignservice/ad/1000>

-Depending on the time constrain the corresponding output is displayed.

-Get request Before Timeout(XML):

The image displays two screenshots of the Advanced Rest Client web application, demonstrating a successful GET request and the resulting XML response.

Top Screenshot:

- URL:** `http://localhost:8080/comcast/services/campaignservice/ad/1003`
- Method:** GET
- Status:** 200 OK, Loading time: 13 ms
- Request headers:**
 - User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
 - Content-Type: text/plain; charset=utf-8
 - Accept: */*
 - Accept-Encoding: gzip, deflate, sdch, br
 - Accept-Language: en-US,en;q=0.8
- Response headers:**
 - Server: Apache-Coyote/1.1
 - Date: Fri, 24 Feb 2017 15:55:31 GMT
 - Content-Type: application/xml
 - Content-Length: 266
- Response (XML):**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<Campaign>
```

Bottom Screenshot:

- URL:** `http://localhost:8080/comcast/services/campaignservice/ad/1003`
- Method:** GET
- Status:** 200 OK, Loading time: 13 ms
- Request headers:**
 - User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
 - Content-Type: text/plain; charset=utf-8
 - Accept: */*
 - Accept-Encoding: gzip, deflate, sdch, br
 - Accept-Language: en-US,en;q=0.8
- Response headers:**
 - Server: Apache-Coyote/1.1
 - Date: Fri, 24 Feb 2017 15:55:31 GMT
 - Content-Type: application/xml
 - Content-Length: 266
- Response (XML):**

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<Campaign>
  <ad_content>atticus is my cuteest dog</ad_content>
  <campaign_id>4</campaign_id>
  <creation_time>2017-02-24T10:56:18.007-05:00</creation_time>
  <duration>60</duration>
  <partner_id>1003</partner_id>
</Campaign>
```

-Get Request After Timeout(XML):

chrome-extension://bljmokabgbdkoefbmccaeicehkmnao/RestClient.html#RequestPlace:default

Advanced Rest Client

Request

Socket

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http://localhost:8080/comcast/services/campaignservice/ad/1003

GET POST PUT PATCH DELETE HEAD OPTIONS Other

Raw Form Headers

Clear Send

Status 500 Internal Server Error Loading time: 14 ms

Request headers

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Content-Type: text/plain; charset=utf-8
Accept: */*
Accept-Encoding: gzip, deflate, sdch, br
Accept-Language: en-US,en;q=0.8

Response headers

Server: Apache-Coyote/1.1
Date: Fri, 24 Feb 2017 15:56:26 GMT
Content-Type: application/xml
Content-Length: 80
Connection: close

Raw XML Response

Copy to clipboard Save as file

<response>
<status>ERROR</status>

chrome-extension://bljmokabgbdkoefbmccaeicehkmnao/RestClient.html#RequestPlace:default

Socket

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Raw Form Headers

Clear Send

Status 500 Internal Server Error Loading time: 14 ms

Request headers

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Content-Type: text/plain; charset=utf-8
Accept: */*
Accept-Encoding: gzip, deflate, sdch, br
Accept-Language: en-US,en;q=0.8

Response headers

Server: Apache-Coyote/1.1
Date: Fri, 24 Feb 2017 15:56:26 GMT
Content-Type: application/xml
Content-Length: 80
Connection: close

Raw XML Response

Copy to clipboard Save as file

<response>
<status>ERROR</status>
<message>No active campaign</message>
</response>

-POST while a campaign is active(json):

The screenshot displays the Advanced Rest Client interface in a browser. The URL bar shows the extension's internal address: `chrome-extension://bljmokabgdbkcoefbmccaefcehkmnao/RestClient.html#RequestPlace:default`.

Request Configuration:

- Method:** POST (selected)
- URL:** `http://localhost:8080/comcast/services/campaignservice/ad`
- Headers:** Empty
- Payload:**

```
{ "partner_id": "atticus", "duration": 60, "ad_content": "atticus is my pet" }
```
- Content-Type:** application/json

Response:

- Status:** 200 OK (Loading time: 30 ms)
- Request headers:**
 - User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
 - Origin: chrome-extension://bljmokabgdbkcoefbmccaefcehkmnao
 - Content-Type: application/json
 - Accept: */*
 - Accept-Encoding: gzip, deflate, br
 - Accept-Language: en-US,en;q=0.8
- Response headers:**
 - Server: Apache-Coyote/1.1
 - Date: Sat, 25 Feb 2017 04:36:33 GMT
 - Content-Type: application/xml
 - Content-Length: 93
 - Connection: close
- Response body (XML):**

```
<?xml version="1.0" encoding="UTF-8" ?><response><status>ERROR</status><message>Already have an active campaign</message></response>
```

The bottom of the browser window shows the address bar with `about:blank`.

- POST while no campaign is active (json):

chrome-extension://bljmokabgbdkoefbmccaefcehkmlnao/RestClient.html#RequestPlace:default

Advanced Rest Client

Request

http://localhost:8080/comcast/services/campaignservice/ad

GET POST PUT PATCH DELETE HEAD OPTIONS Other

Raw Form Headers

Raw Form Files (0) Payload

Encode payload Decode payload

```
{ "partner_id": "atticus", "duration": 60, "ad_content": "atticus is my pet" }
```

application/json Set "Content-Type" header to overwrite this value.

Clear Send

Status 200 OK Loading time: 13 ms

Request headers

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Origin: chrome-extension://bljmokabgbdkoefbmccaefcehkmlnao
Content-Type: application/json
Accept: */*

chrome-extension://bljmokabgbdkoefbmccaefcehkmlnao/RestClient.html#RequestPlace:default

application/json Set "Content-Type" header to overwrite this value.

Refresh

Clear Send

Status 200 OK Loading time: 13 ms

Request headers

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36
Origin: chrome-extension://bljmokabgbdkoefbmccaefcehkmlnao
Content-Type: application/json
Accept: */*
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.8

Response headers

Server: Apache-Coyote/1.1
Date: Sat, 25 Feb 2017 04:35:27 GMT
Content-Type: application/json
Transfer-Encoding: chunked

Raw JSON Response

Copy to clipboard Save as file

```
{  partner_id: "atticus"
  duration: 60
  ad_content: "atticus is my pet"
  active: true
  creation_and_duration_time: 1487997387138
  campaign_id: 3
}
```

Note :

1. The Bonus to present a URL for all available campaigns is

- <http://localhost:8080/comcast/services/campaignservice/ad/GETall>

The screenshot shows the Advanced Rest Client interface. The URL bar contains `http://localhost:8080/comcast/services/campaignservice/ad/GETall`. The request method is set to GET. The response status is 200 OK with a loading time of 33 ms. The response headers show the server is Apache-Coyote/1.1 and the content type is application/json. The response body is a JSON array of 4 campaign objects.

```
[{"partner_id": "1003", "duration": 60, "ad_content": "Manish is cool", "active": true, "creation_and_duration_time": 1488094871319, "campaign_id": 5}, {"partner_id": "1002", "duration": 60, "ad_content": "Manish is cool", "active": true, "creation_and_duration_time": 1488094864433, "campaign_id": 4}, {"partner_id": "1001", "duration": 60, "ad_content": "Manish is cool", "active": false, "creation_and_duration_time": 1488094849651, "campaign_id": 2}, {"partner_id": "1000", "duration": 60, "ad_content": "Manish is cool", "active": false, "creation_and_duration_time": 1488094849651, "campaign_id": 1}]
```

2. The Bonus to allow multiple campaigns to one partner is added(one active campaign and rest inactive campaigns)