

Performance Testing of API

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Metrics :

- ▯ Metrics – Response time, Throughput
- ▯ Response time – time elapsed between first request sent and first response received.
- ▯ $\text{Throughput} = (\text{number of requests}) / (\text{total time})$
- ▯ Best case, Avg. case , Test case

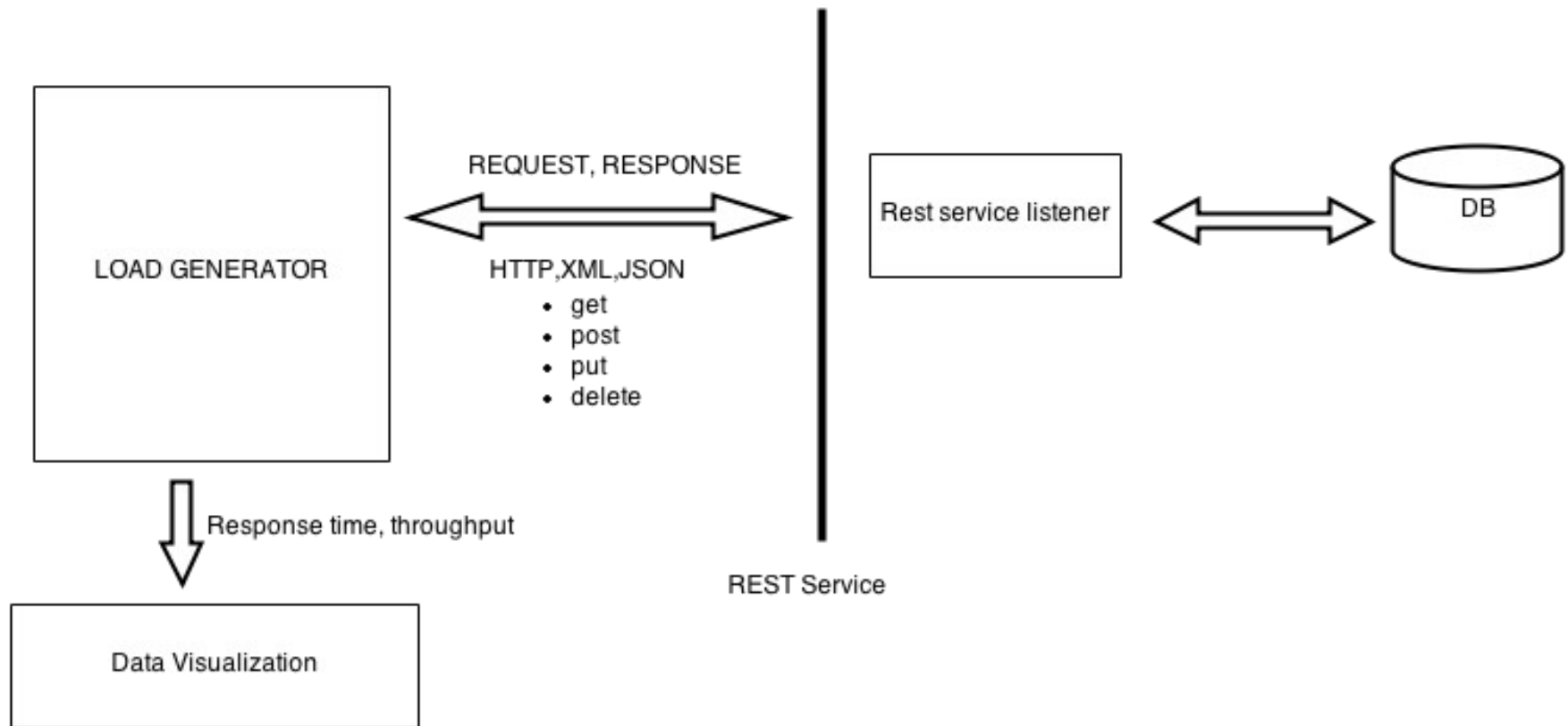
Input :

- ▯ Base URI
- ▯ Path
- ▯ Method
- ▯ Payload based on the method
- ▯ Number of threads/load
- ▯ Frequency to load – loop forever

Output :

- ▯ Charts for the Response time and throughput recorded
- ▯ Bar chart – best -1 , avg.- 50% , worst- 100%
- ▯ Line chart – for each load generated –
Dynamic

System Design:



Load generator :

- ▯ JSP and JAVA
- ▯ Pages that take input and show Output.
- ▯ JAVA - Concurrent threads to send HTTP requests to the REST service
- ▯ Scripts that load the server at set frequency

Data visualization :

- ▯ Fusion charts
- ▯ JSON - files
- ▯ Bar chart
- ▯ Line chart

Input parameter :

get:

Base Url : http://108.168.175.186:8080

Poll Frequency : 10

Number of Users : 1000

Path : /yuppsocial/social/api/livelist

POST :

base url: <http://www.thomas-bayer.com>

Poll Frequency : 10

Number of Users : 10

Path : /sqlrest/PRODUCT/0/

<resource>

<PRICE>99.9</PRICE>

</resource>

PUT:

base url: <http://www.thomas-bayer.com>

Poll Frequency : 10

Number of Users : 10

Path : /sqlrest/PRODUCT/99/

<resource>

<NAME>Cloud</NAME>

<PRICE>99.9</PRICE>

</resource>

delete :

base url: <http://www.thomas-bayer.com>

Poll Frequency : 10

Number of Users : 10

Path : /sqlrest/PRODUCT/99/