# HTTP Access Monitor – explore JAX-RS 2.0 (JEE7)

The purpose is to explore JAX-RS 2.0 part of Java Enterprise Edition 7.

Brief introduction to JAX-RS 2.0:

<https://www.youtube.com/watch?v=maEtpN-kTyI&index=7&list=PL74xrT3oGQfCCLFJ2HCTR_iN5hV4penDz>

I have an existing application that simulates HTTP access using java clients, which sends HTTP access data to the server using various technologies. Presently, there are clients for WebSocket (with JSON), CXF Web-service and Cassandra database. The data is stored either in a Cassandra database, or an in-memory database.

To view the data, there is a monitoring client, implemented using AngularJS and ChartJS. When the client is loaded in the browser, it makes a WebSocket connection and sends a “Chart subscription” to the server using JSON. The server will then push HTTP access data for subscribed chart, in the form of JSON, to the client. By clicking on the “tabs” a different “Chart subscription” is sent to the server and pushed data is changed.

The purpose of the application is to test various technologies, and not to be a “production” application.

It can be found on GitHub: <https://github.com/jrpe99/monitor.git>

## Technologies used

### Development environment

Tomcat 8 (JEE7 required) apache-tomcat-8.0.23-windows-x64

Java 8 jdk-8u45-windows-x64

Eclipse Luna EE eclipse-jee-luna-SR2-win32-x86\_64

Git Git-1.9.5-preview20150319

Maven apache-maven-3.3.3-bin

### Implementation

Java 8, JEE7 (WebSocket), CXF 3.1.0, Spring 4.1.1, AngularJS v1.3.14, Chart.js 1.0.1-beta.4

## TASKS

### Task 1 – New Java client USING JAX-RS 2.0 JEE7

Implement a new java application client and server end-point using asynchronous REST (JAX-RS 2.0 JEE7) with JSON. The purpose is to send HTTP access data as the other clients.

### TASK 2 (if there is more time) – NEW action from the monitoring client

Invent some action that can be sent to the server with synchronous REST (JAX-RS 2.0 JEE7) using AngularJS.

### TASK 3 (if there is more time) – Other JAX-RS 2.0 functionality

Try filters, interceptors, hybermedia …