

Task ID: JSON-Search

Design Scenario

A claim management system in an insurance company is currently being modernized; a cross-platform iOS and Android mobile app has been introduced recently. This app needs to communicate with the claim management system backend (which is a JEE application hosted on an application server with IBM WebSphere) via *RESTful HTTP*; *JSON* has been decided as message exchange format. The integration architect, who is responsible for the claim management system backend and its RESTful HTTP interface now looks for *JSON parsing libraries* that come with the JEE application server (WebSphere), but also additional libraries, which could be independent from the webserver used.

Non-functional requirements

As many claims are filed and processed via this interface, the *performance of unmarshalling* (e.g., conversion from JSON to Java classes) is an important architecturally significant requirement on the server side.

Constraints

Not all open source licenses can be used: Apache 2 and Eclipse have been approved for use, GPL has been banned, all others require approval from higher-level management.

Search goal

The architect would like to search for possible *JSON parsers* for Java, which would satisfy the requirements and constraints.

Search and determine the relevance and the types of architectural knowledge of the resulted web pages from Google, which could support the architect fulfilling his request.