

Japan MB's Reports

2015/11/16
Fujitsu, Ltd. Kotaro Noyama
Fujitsu Social Science Laboratory, Ltd. Chieko Hiramatsu





RepOSS Collector's status

Overview

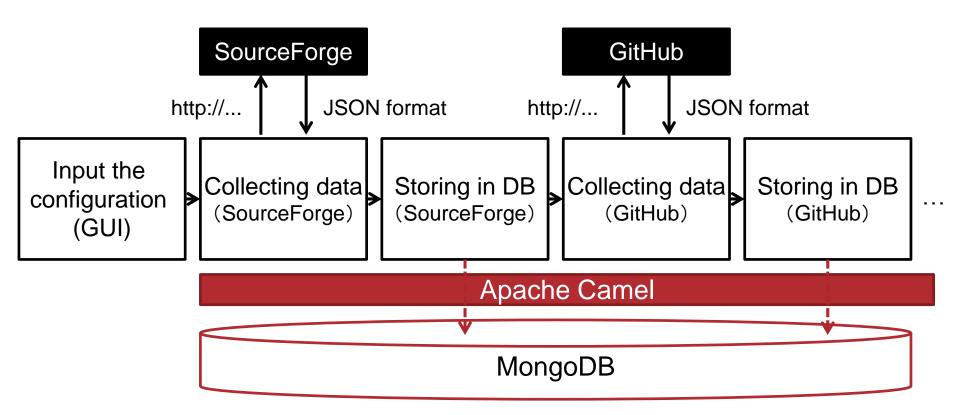


- Data collecting tool for evaluation of OSS
 - Collecting information of projects from Web services using Web APIs
 - Storing the data into a database (MongoDB)
 - GUI for setting the configuration to collect data
 - Import from the configuration from Excel file
 - Registration / Revision of settings
 - Monitoring the status of progress with GUI

Image of RepOSS Collector



- Collecting and Storing data by crawling Web services
 - Processing each of data by using Apache Camel
 - Storing the data in MongoBD with JSON format



Target data and implementation status



■ Target Web services and information (in beta version)

| target | collecting information (example) | lmpl. |
|----------------------|---|---------|
| SourceForge | Basic information of the project | Done |
| GitHub | Basic information of the project | Done |
| Bugzilla | Bug information | Done |
| JIRA | Bag information | Done |
| SlideShare | Slides about the target OSS | Done |
| Google Custom Search | The number of search results | Done |
| Google Trend | Transition of the number of search results | Done |
| Amazon | Books about the target OSS | Not yet |
| Wikipedia | Information of the project on Wikipedia | Done |
| CVE | Vulnerability information | Done |
| Twitter | Tweets with the keywords about the target OSS | Done |
| Mail archive site | Flow in the mailing list | Done |
| Package information | Version of the package in major Linux distributions | Not yet |

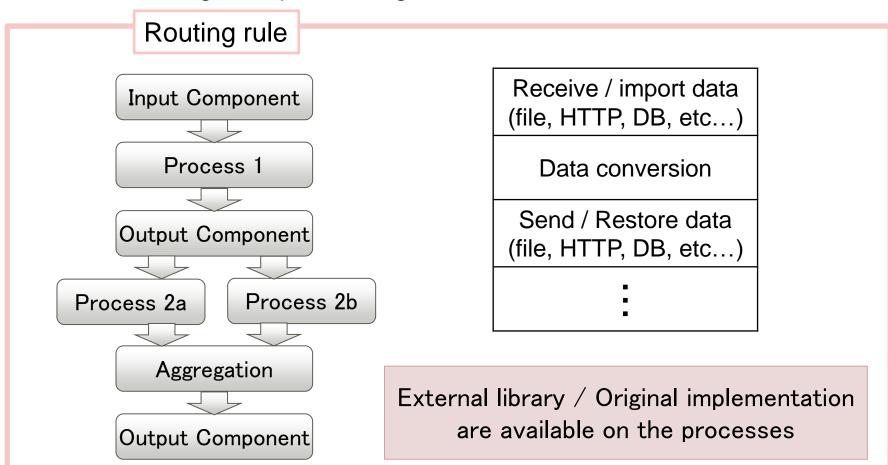
(Appendix) Apache Camel



Rule-based routing engine



Defining the routing rule, how to input / process / output the data for automating data processing



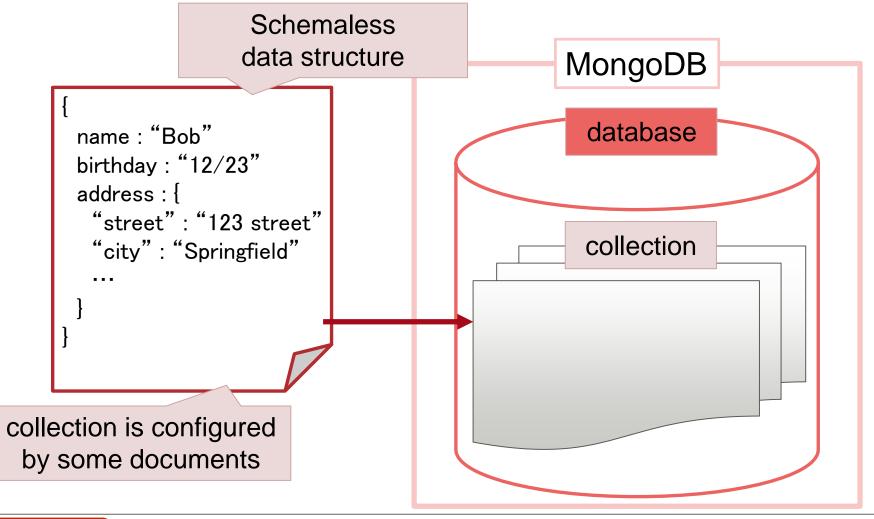
(Appendix) MongoDB



■ No SQL, document-oriented database



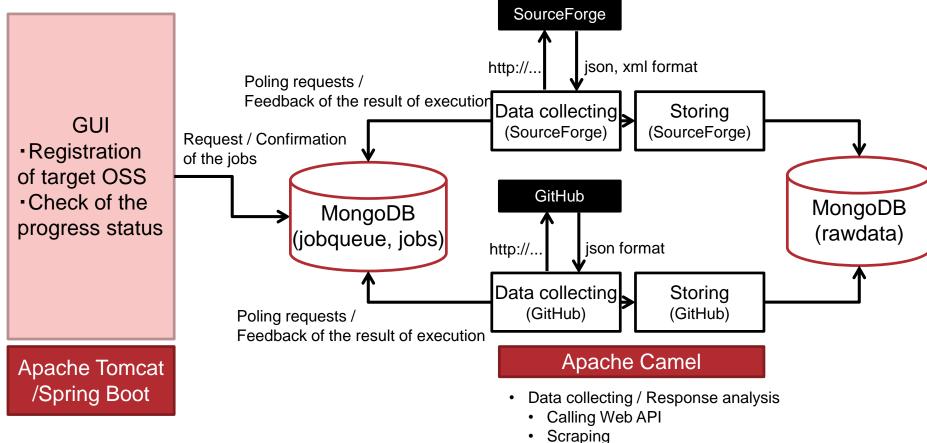
Using JSON format to store the data



Detail of RepOSS Collector



Detailed image of processing in RepOSS Collector



- Registration of target OSS
- Import of the list of target OSS and shelf registration (from Excel Book manipulated by Apache POI)
- Request of the jobs (to jobqueue)
- Check of the progress status

Storing collected data

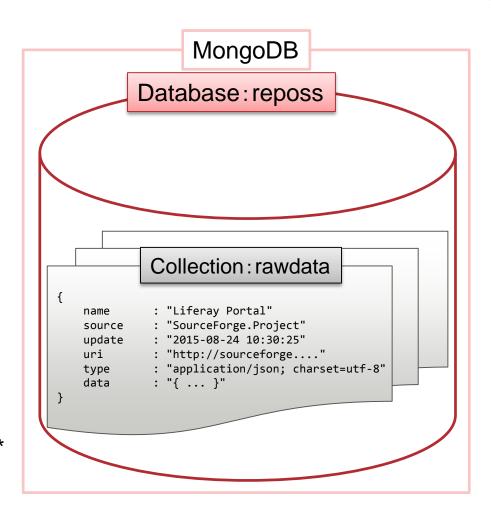
Feedback of the result of execution

Throttling (for flow limitation)

Example of the data collection in MongoDB FUJITSU



- Collection
 - rawdata
- Items (data type)
 - name (string)
 - name of software
 - source (string)
 - source of information
 - update (string)
 - date of request from Console
 - yyyy-MM-dd HH:mm:ss
 - type (string)
 - value of the Content-Type header*
 - data (string)
 - collected information
 - JSON with response body, or made by partial information on body
 - * necessary only if 'data' is raw response body



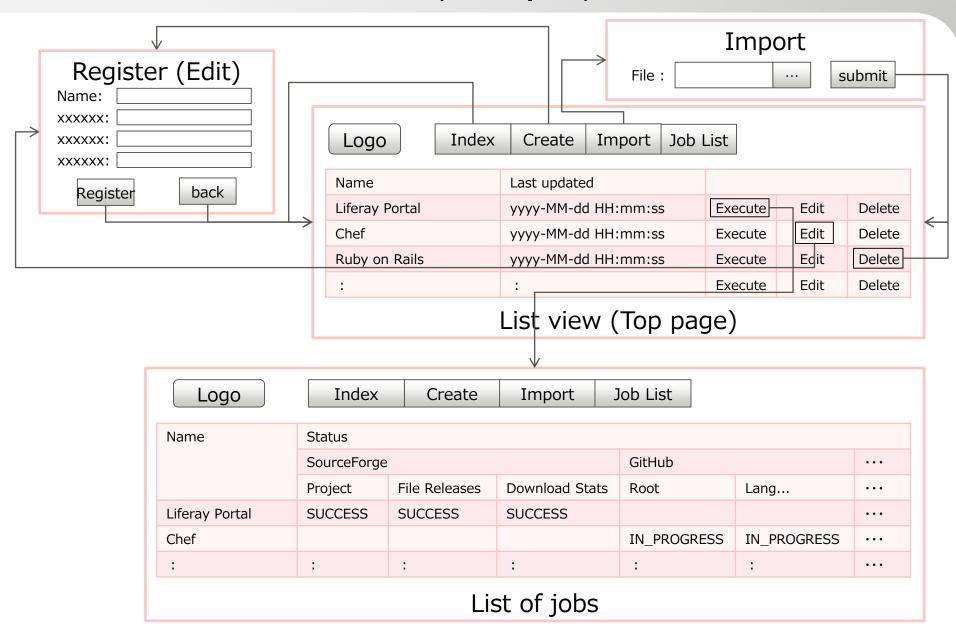
Functions of GUI



- RepOSS Collector has the following GUI functions.
 - List view
 - Showing the all registered software information
 - Input / Edit of the configuration
 - Input / edit the configuration to collect data from Web services
 - Import of the configuration
 - Import of the configuration data from Excel Book (Excel2007/2010/2013)
 - Request for collecting data
 - Requesting the collecting tool to start collecting data
 - Monitoring the status
 - Confirmation of the progress (success / processing / error)

Views and transitions (sample)





Document



- Preparing two types of documents
 - Installation Manual
 - Introduction of RepOSS Collector





Action items

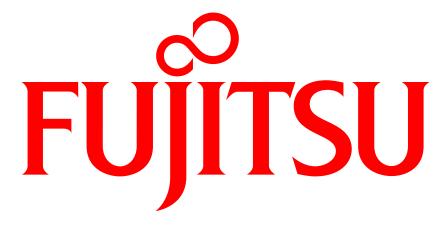


- A2015101302 Japan MB will provide the information of GitHub before next F2F meeting.
- https://github.com/neaosspf-wg3/reposs-collector

Action items



- A2015101303 Japan MB will provide the list of Open Source Software used in RepOSS Collector before next F2F meeting.
- Apache Camel (Apache License 2.0) only
- But the following software is necessary elsewhere to operate it.
 - OpenJDK 1.8
 - MongoDB 2.6.x
 - Apache Maven 3.x



shaping tomorrow with you