State of the RDF JS Libraries

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Motivation

RDF & semantic web is growing during past decade and many websites are willing to add more information to the HTML tags to make them more machine readable. Therefore, front-end support for such data is needed. This project helps interested people see available RDF-JS libraries, filter them and view two experiments on two SPARQL libraries.

Approach

Research on available libraries
Categorize them based on W3C categories:

- Parsing
- SPARQL/Queries
- Storage
- UI and Binding

Evaluate two SPARQL supporting libs with Waterloo WatDiv Datasets

(http://dsg.uwaterloo.ca/watdiv/)

Experiments

- Queries: Simple (Linear), Complex, Snowflake
- Datasets: Three different sizes: 100K, 1M,
 10M

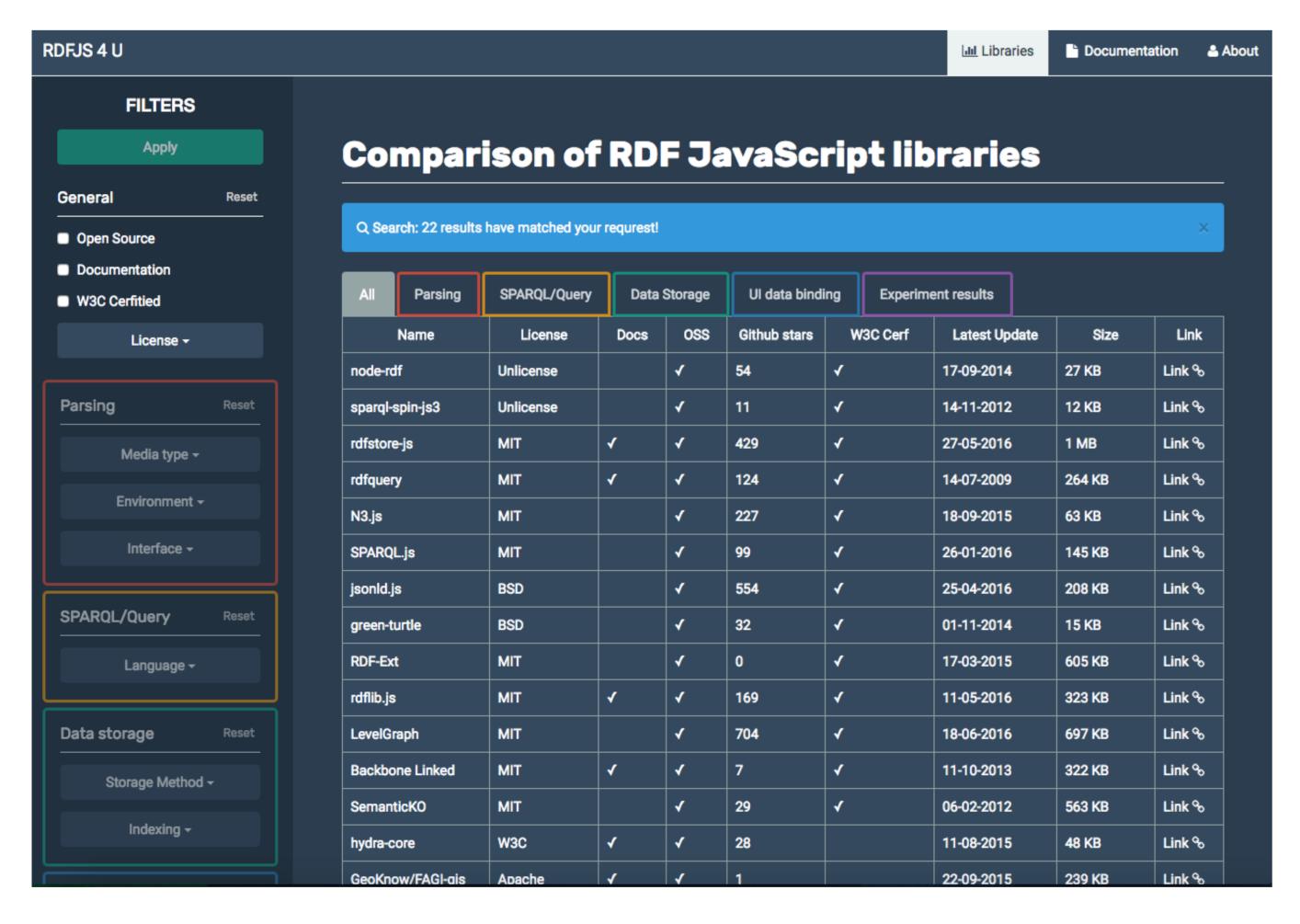
Application

Easy to use tool to see and find RDF-JS libs Listing & Filtering of libraries

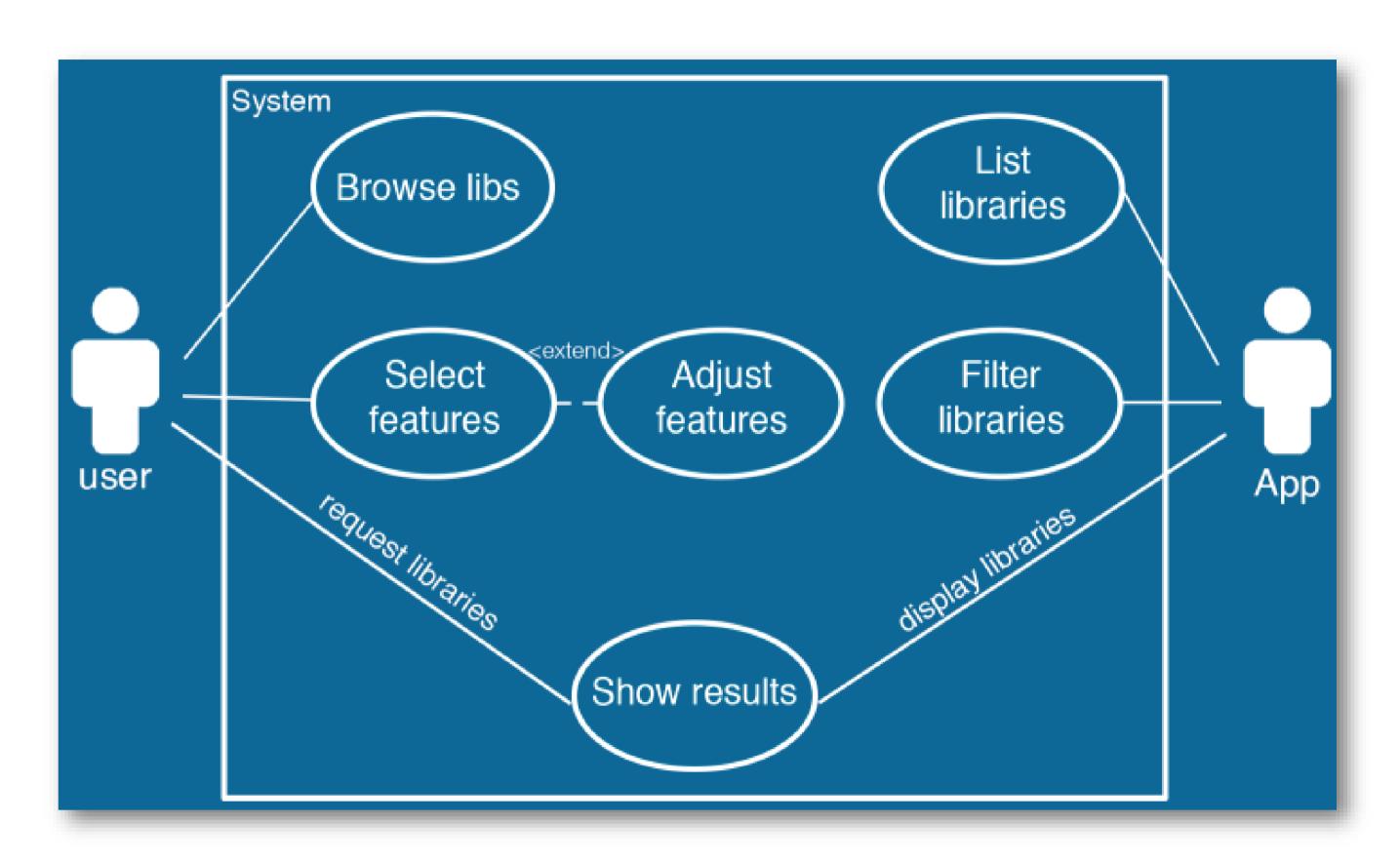
Available at: http://txwkx.github.io/RDFJS4U/

Open source code is here:

https://github.com/txwkx/RDFJS4U



Use Case



Challenges

- Finding proper dataset
- Finding queries
- Lack of documentation
- Lack of organized and well-defined study
- Representing data in a user-friendly manner
- Building an easy to maintain & contribute project

Virtual Machine



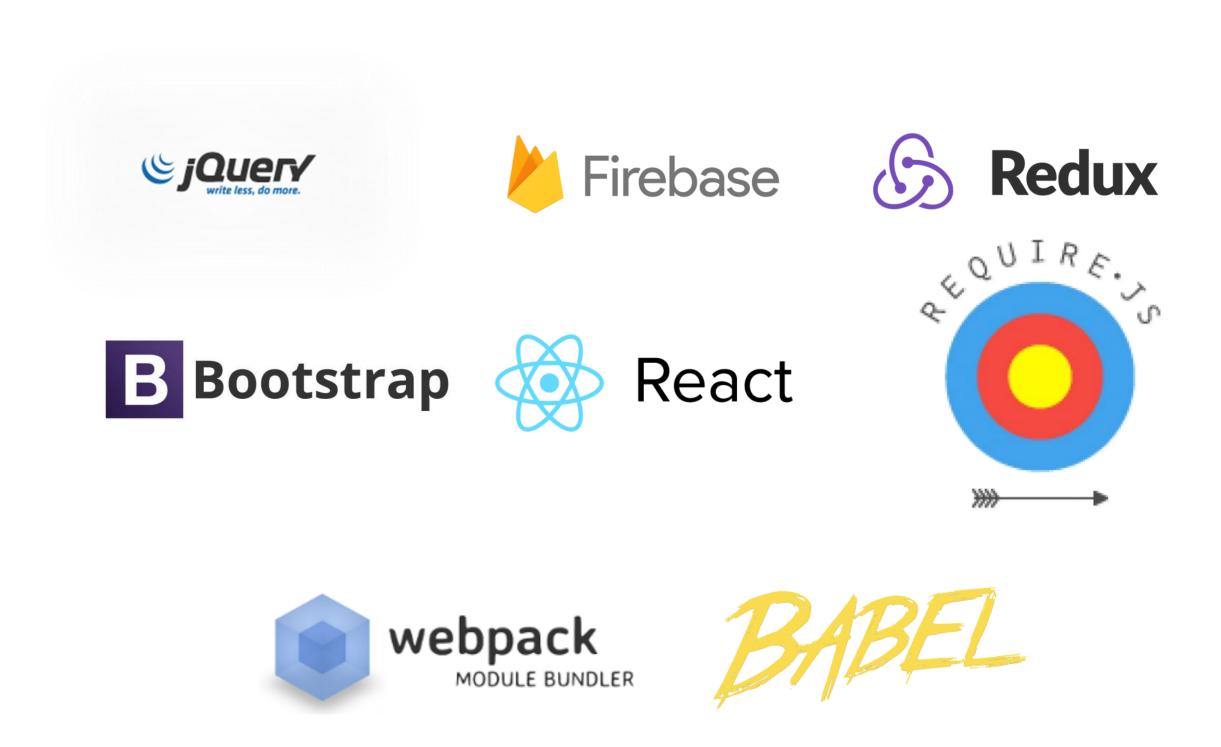
Hostname: vm-<EIS02>

Software installed: a full copy of the source code

Local Access:

OS User: Windows16StateOfRDFJSlibs
Password: jsstate4rdf

Technologies



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