Training Day 10 Report

26 June 2024

Keys Takeways:

1. Downloading Apache Jena Fuseki

- Visit Official Website: Go to the Apache Jena website at jena.apache.org.
- Navigate to Downloads: Find the download section for Fuseki.
- **Select Version**: Choose the desired version of Fuseki. The latest stable release is recommended.
- **Download Archive**: Download the zip or tar.gz archive suitable for your operating system.
- Extract Files: Extract the downloaded archive to a preferred directory on your system.

2. Java Version Requirements

- **Java Compatibility**: Ensure that you have Java installed on your system. Apache Jena Fuseki requires Java 8 or later.
- Check Java Version: Open a terminal or command prompt and run the command java
 -version to verify your Java version.
- Install/Update Java: If needed, download and install the latest Java Development Kit (JDK) from the <u>Oracle website</u> or use an open-source alternative like OpenJDK.

3. Uploading Data Over Apache Jena Fuseki

- Start Fuseki Server: Navigate to the directory where Fuseki is extracted and run the server using the command ./fuseki-server (Linux/Mac) or fuseki-server.bat (Windows).
- Access Fuseki UI: Open a web browser and go to http://localhost:3030 to access the Fuseki user interface.
- Create a Dataset:

- o Click on "Datasets".
- Click on "Add new dataset".
- o Enter a name and select the dataset type (e.g., in-memory or TDB).

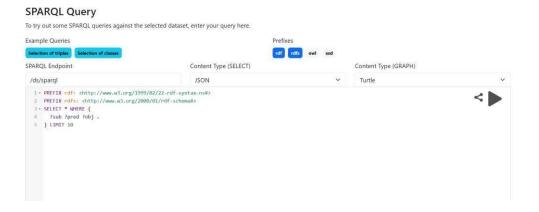
Upload RDF Data:

- o Select the newly created dataset.
- Go to the "Upload" tab.
- o Choose the RDF data file (e.g., .ttl, .rdf) from your local machine.
- o Click "Upload" to load the data into the dataset.

4. Writing and Executing a Query

SPARQL Query Execution:

- O Select the dataset you want to query from the Fuseki interface.
- O Go to the "Query" tab.



Writing a Query:

o Use SPARQL, a query language for RDF data. Example query:

o This query selects the names of all persons in the dataset.

• Running the Query:

- o Enter the SPARQL query into the query text area.
- o Click "Run Query" to execute.
- o View results in the results pane, which displays the query output in tabular form

