TRAINING TR-102 DAY 12 REPORT

26 June, 2024

1. DOWNLOADING AND INSTALLING APACHE JENA FUSEKI:

Apache Jena Fuseki:

Description: Fuseki is a SPARQL server that provides REST-style SPARQL HTTP Update, SPARQL Query, and SPARQL Update for managing RDF data.

Features: Allows for the storage, querying, and management of RDF datasets using SPAROL.

Installation Steps:

Downloading: Obtaining the latest version of Apache Jena Fuseki from the official website.

Setting Up: Extracting the downloaded files and setting up the environment.

Running the Server: Starting the Fuseki server to serve SPARQL endpoints.

2. DOWNLOADING AND INSTALLING THE JDK (JAVA DEVELOPMENT KIT):

JDK Overview:

Description: The JDK is a software development environment used for developing Java applications and applets.

Components: Includes the Java Runtime Environment (JRE), an interpreter/loader (Java), a compiler (javac), an archiver (jar), a documentation generator (Javadoc), and other tools needed for Java development.

Installation Steps:

Downloading: Obtaining the latest version of the JDK from the official Oracle website or an open-source alternative like OpenJDK.

Setting Up: Installing the JDK by following the setup instructions and configuring the system environment variables (e.g., setting JAVA_HOME and updating the PATH).

CONCLUSION:

Day 12 was dedicated to setting up essential tools for RDF data management and Java development. Participants learned to download and install Apache Jena Fuseki, enabling them to

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create and manage SPARQL endpoints for RDF datasets. Additionally, the session covered the download and installation of the Java Development Kit (JDK), providing the necessary foundation for Java-based application development. These installations are crucial for working with semantic web technologies and developing robust, scalable applications.		
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