Training Day9 Report:

25 June 2024

Keys Takeways:

**Use of JSON in WebVOWL**

* **Primary Format**: JSON is the main format used by WebVOWL to visualize ontologies.
* **Benefits**:
  + Simplicity and readability.
  + Broad interoperability across platforms.
  + Efficient parsing and performance.
* **Function**: Captures ontology structure and elements (classes, properties, relationships) in a VOWL-compliant JSON format for interactive visualizations.

**Use of XML in WebVOWL**

* **Ontology Creation**: Ontologies are often created in OWL (XML format) using tools like Protégé.
* **Conversion to JSON**: OWL (XML) files are converted to JSON for compatibility with WebVOWL.
* **Visualization Workflow**:
  1. Create/Edit ontology in XML.
  2. Convert XML (OWL) to JSON.
  3. Load JSON into WebVOWL for visualization.

**Creating a Smart City Architecture on WebVOWL**

* **Ontology Design**: Define key elements (e.g., buildings, transportation, utilities) and their relationships.
* **JSON Conversion**: Convert the designed ontology from OWL (XML) to JSON.
* **Visualization**: Load the JSON file into WebVOWL to visualize and interact with the smart city architecture.
* **Analysis**: Utilize WebVOWL's interactive features to analyze and refine the smart city ontology.

**Hands-on Practice on WebVOWL**

* **Setup**: Install and configure WebVOWL.
* **Loading Ontologies**: Practice loading various JSON files representing different ontologies.
* **Interactive Exploration**: Use WebVOWL's tools to navigate, explore, and manipulate ontology visualizations.
* **Customization**: Modify and extend visualizations by editing the JSON ontology files and observing changes.