Training TR-102 Report <u>Day 10</u>

25th June, 2024

The tenth day of the training focused on creating various architectural-level RDFs using VOWL and understanding the working of API systems using the software Postman to extract data or information on a website. It aimed to enhance participants' skills in Semantic Web technologies and API integration, critical for modern web development and data interoperability.

Creating Architectural-Level RDFs using VOWL

• Highlights:

- Hands-On Creation of RDFs: Participants engaged in creating RDFs at an architectural level, leveraging VOWL to visually design and understand complex ontological structures.
- VOWL Symbols and Notations: Detailed sessions on how VOWL symbols represent various OWL ontology components, enhancing clarity and communication.
- Case Studies and Examples: Real-world examples and case studies were used to demonstrate the practical application of VOWL in designing and visualizing RDFs.

• Key Takeaways:

- Participants gained proficiency in using VOWL to create and visualize RDFs,
 improving their ability to manage and interpret semantic data structures.
- Enhanced understanding of how visual tools like VOWL can simplify the development and communication of complex ontologies.

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Understanding the Working of API Systems using Postman

• Introduction to APIs and Postman:

- API (Application Programming Interface): APIs allow different software systems to communicate and exchange data. They are essential for integrating various applications and services.
- Postman: Postman is a popular tool for testing and working with APIs. It provides a
 user-friendly interface to send requests, inspect responses, and automate API testing.

Highlights:

- API Fundamentals: An overview of API concepts, including RESTful APIs, endpoints, HTTP methods (GET, POST, PUT, DELETE), and status codes.
- o Using Postman: Step-by-step guidance on using Postman to:
 - Set up and organize API requests.
 - Send requests to a server and receive responses.
 - Inspect and analyze API responses.
 - Automate and document API tests.
- Practical Exercises: Participants practiced extracting data and information from websites using APIs. They used Postman to send requests, handle responses, and troubleshoot common issues.

Key Takeaways:

 Enhanced skills in using Postman to interact with APIs, enabling efficient data extraction and integration from various web sources.

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A deeper understanding of API functionality, including how to set up, send, and analyze
 API requests and responses.

Conclusion

Day 10 of Training TR-102 provided participants with valuable hands-on experience in creating architectural-level RDFs using VOWL and working with API systems through Postman. These skills are essential for developing efficient, data-driven web applications and enhancing data interoperability. Participants are now better equipped to apply these technologies in real-world scenarios, driving innovation and improving web development practices.

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