

#### SHRI VILEPARLE KELAVANI MANDAL'S DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING



(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA: 3.18)

#### DEPARTMENT OF INFORMATION TECHNOLOGY

**COURSE CODE:** DJ19ITL801 **DATE:** 6/03/2024

COURSE NAME: Semantic Web Technology Laboratory CLASS: Final Year B.Tech

NAME: Rishikesh Sharma SAP ID: 60003200102

### **EXPERIMENT NO. 7**

#### **AIM / OBJECTIVE:**

Design of Ontology using RDFS

# **THEORY:**

The pizza ontology is a well-known ontology in the semantic web community. It is developed for educational purposes by the University of Manchester, which is a leading university in the development of semantic technologies.

# **PROCEDURE:**

- 1. Upload pizza Ontology from the URL.
- 2. Explore using various tools in protégé.
- 3. Browse the class hierarchy, the property hierarchies and the individuals and note how the ontology describes the domain of pizzas.

ntology metrics:	2
Metrics	
Axiom	801
Logical axiom count	322
Declaration axioms count	120
Class count	100
Object property count	8
Data property count	0
Individual count	5
Annotation Property count	12
lass axioms SubClassOf	259
EquivalentClasses	15
DisjointClasses	14
GCI count	0
Hidden GCI Count	2
Diject property axioms	
SubObjectPropertyOf	4
EquivalentObjectProperties	0
InverseObjectProperties	3
DisjointObjectProperties	0
FunctionalObjectProperty	4
InverseFunctionalObjectProperty	3
TransitiveObjectProperty	2

Academic Year 2023-24 SAP ID: 60003200102



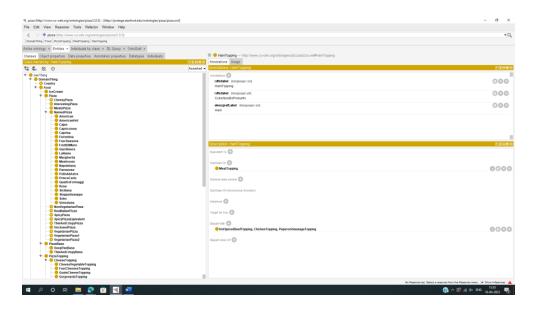
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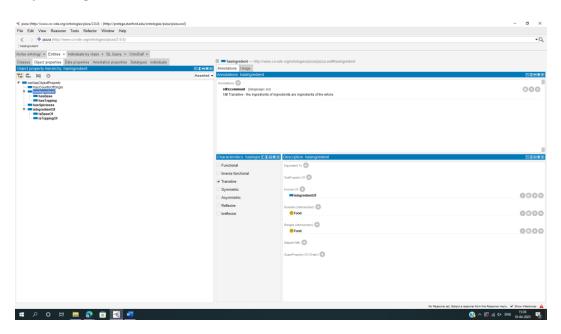
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# **OUTPUT:**

### Classes



# Object Properties



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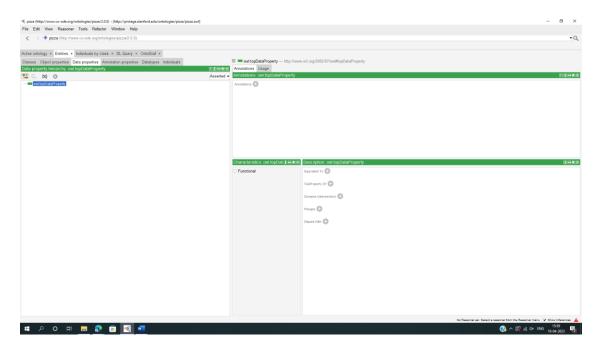


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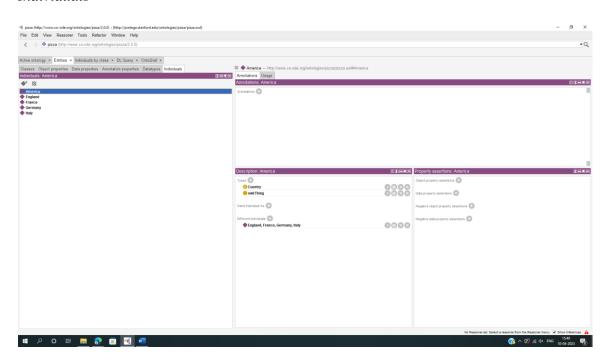


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# Data Properties



#### *Individuals*



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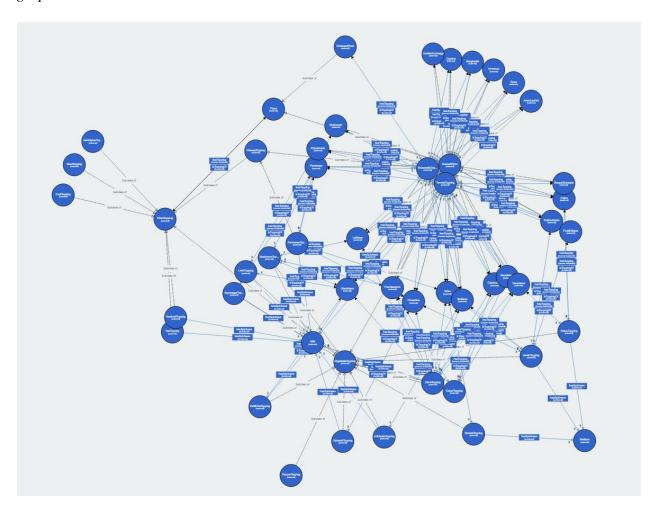


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graph



# **BOOKS AND WEB RESOURCES:**

- 1. <a href="https://cambridgesemantics.com/blog/semantic-university/learn-owl-rdfs/">https://cambridgesemantics.com/blog/semantic-university/learn-owl-rdfs/</a>
- 2. <a href="https://medium.com/@vindulajayawardana/ontology-generation-and-visualization-with-prot%C3%A9g%C3%A9-6df0af9955e0">https://medium.com/@vindulajayawardana/ontology-generation-and-visualization-with-prot%C3%A9g%C3%A9-6df0af9955e0</a>