What did we do in the assignment?

In this assignment we have **created**, **visualized** and **checked the consistency** of the ontology for our domain "Restaurant Management System".

Tool used for building Intelligent System:

➔ **PROTEGE EDITOR (5.5.0):** It is a free, open-source platform that provides a suite of tools to construct domain models and knowledge based applications with Ontologies.

Tool used for Visual Representation:

➔ **WebVOWL** : It is a web application for the interactive visualization of ontologies
➔ **OWLViz** : It can be used for visualizing the class hierarchy.

Readme:

● Please open the Ontological Design (.owl) in a *Protégé* **editor (5.5.0)**
● Please go to http://www.visualdataweb.de/webvowl/# and upload the *.owl* file for visualizing the generated ontology.
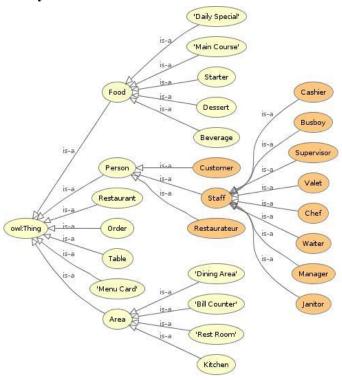
Problem Faced:

Initially we used *Webprotege* for producing an OWL Ontology but we couldn't visualize the created Ontology and we were not able to check the consistency of the Ontology.

Solution:

We downloaded the same version (5.5.0) of the editor, and with the help of that we were able to create, visualize and check the consistency of the Ontology.
● With the help of the *OWLViz* tool, we generated the visual representation of the class hierarchy.
● With the help of a visualization tool *WebVOWL* we have created a visual representation of the complete intelligent system, i.e. we were able to get the interactive visualization of the created ontology.

- The **Class hierarchy** obtained from **"OWLViz"** tool:

- The obtained graph of the **Ontology** from **WebVOWL** tool: