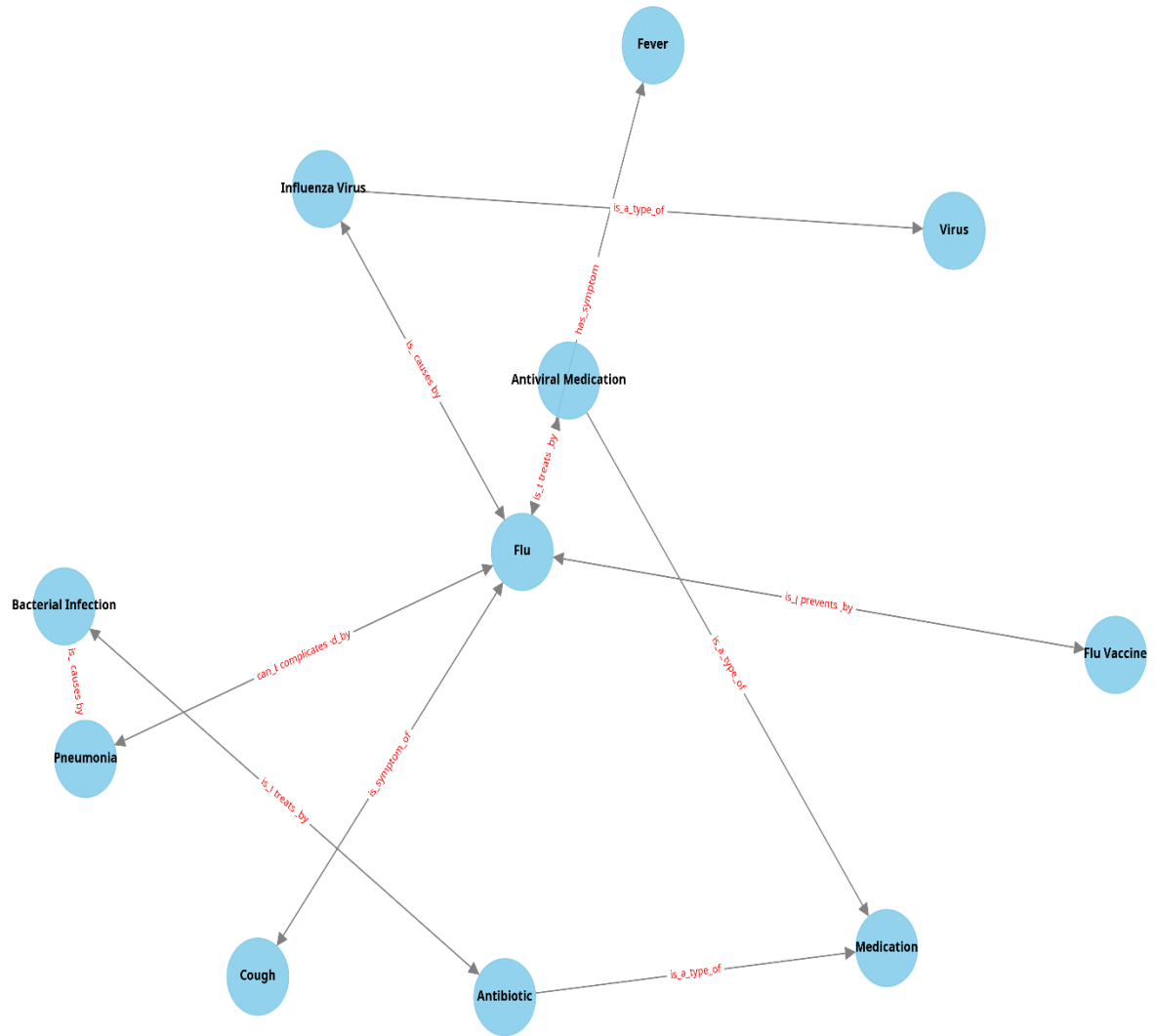
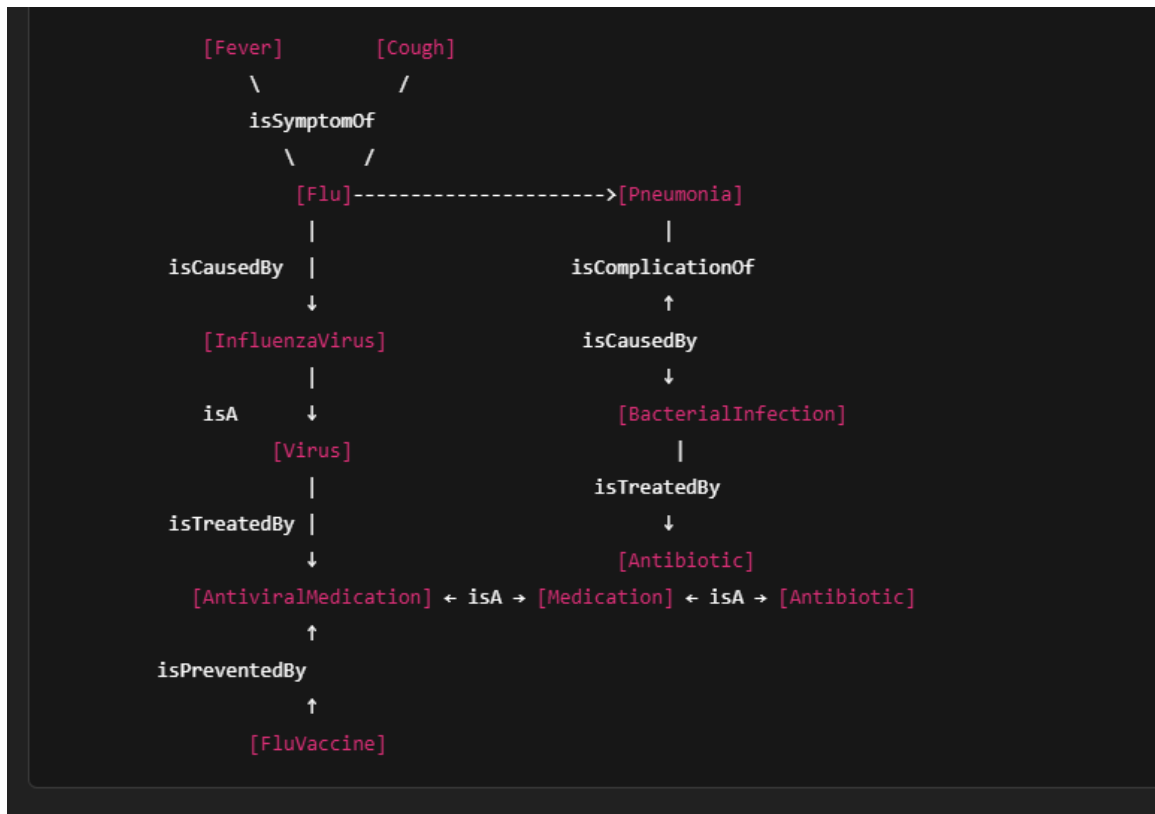


Draw Hierarchical tree (Semantic Network)

Fever is a symptom of flu which has cough as symptom as well , flu is causal by influenzas virus which is a type of virus , flu can be treated by antiviral medication and flu vaccine prevent flu , pneumonia is complicated flu and is caused by bacterial infection which is treated by antibiotic which is type of medication like antiviral one

Semantic Network Visualization





3. Sample Questions

A. Semantic Distance Questions

1. What is the semantic distance between Fever and Virus?
 - Path: Fever → Flu → InfluenzaVirus → Virus → (Distance = 3)
2. What is the distance between Pneumonia and Medication?
 - Path: Pneumonia → Antibiotic → Medication → (Distance = 3)
3. Find the shortest path between Cough and AntiviralMedication:
 - Path: Cough → Flu → AntiviralMedication → (Distance = 3)
4. "What is the type of semantic network used to represent the relationships between symptoms, causes, treatments, and complications of flu and pneumonia?"

ANSWER: Definitional Networks , Assertional Networks , Implicational Networks