بسم الله الرحمن الرحيم

# ASSIGNMENT NO.04:

# (RELEVANT ONTOLOGIES REVIEW)

## Group Members:

- ➤ BSEF19M005 Syeda Moaddat Naqvi
- ➤ BSEF19M003 Anam Razaq
- ➤ BSEF19M010 Sahrish Munir

## Class:

BSSE 6$^{th}$ Reg (2019-2023)

## Submitted To:

Sir Fahad Maqbool

# COMPARISON SUMMARY

Comparison WebSite is as follows:

https://www.scitepress.org/Papers/2020/101125/pdf/index.html

(CODO: Ontology for Collection and Analysis of COVID-19 Data of India)

## What Has Been Done?

The above mentioned CODO ontology provides a model for the *collection and analysis of data about COVID-19 pandemic*. The ontology provides a standard based open source model that facilitates the *integration of data* from heterogeneous data sources.

## How Is Done?

The Ontology was designed by analyzing desperate COVID-19 data sources such as databases, literature and services etc. The ontology follows the best practices for vocabularies by re-using concepts from other leading vocabularies and by using the *W3C standards RDF, OWL, SWRL and SPARQL*.

The design of CODO has primarily been motivated by the various COVID-19 data projection websites. For Example:

- https://covid19.who.int/
- https://www.isibang.ac.in/~athreya/incovid19/
- https://www.mygov.in/covid-19/
- https://coronavirus.maryland.gov/

# Who Has Done?

- **Biswanath Dutta** and
- **Michael DeBellis**

*Indian Statistical Institute, Bangalore, India*

*Semantic Web Consultant, Sans Francisco, CA, U.S.A*

# What's Missing?

The CODO Ontology shows representation of COVID-19 cases, patient data, patient travel history, the Relationship between patients in India.

But,

- Our ontology focuses on the statistics of confirmed, recovered and death cases in Pakistan.
- Furthermore, our Ontology also focuses on history and Details of COVID-19 and
- Preventive Measures against COVID-19.

that was missing in the above mentioned CODO Ontology.