بسم الله الرحمن الرحيم

ASSIGNMENT NO.03:

Group Members:

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Class:

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Submitted To:

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ONTOLOGY REQUIREMENT SPECIFICATION DOCUMENT

COVID-19 IN PAKISTAN ORSD	
1)	**Purpose**
	The purpose of building Ontology is to provide a Knowledge model of statistics of COVID-19 in Pakistan.
2)	**Scope**
	The Ontology has to focus just on Total COVID cases, total recovered and death cases in Pakistan.
3)	**Implementation Language**
	The Ontology has to be implemented in OWL Language.
4)	**Intended End-Users**
	User 01.Govt of Pakistan User 02.Public of Pakistan User 03.Statistics Analysts User 04. Cases Reporters User 05. Medical Staff User 06. Health Organizations in Pakistan
5)	**Intended Uses**
	Use 01. Represents the information monitored by authentic sources. Use 02. Provides Up-to-date statistics of COVID-19 in Pakistan. Use 03. Preventive Measures enforcement Use 04. Provide Vaccinations to public

6)	**Ontology Requirements**
	a) Non-Functional Requirements
	NFR1. The Ontology must support English Language NFR2. The Ontology must provide Latest statistics till when it is created/ developed.
	b) Functional Requirements

	- *CQG1: Pakistan*
	  * CQ1.1: what is the population of Pakistan?
	  * CQ1.2: what is the percentage of children, teenagers and adults in Pakistan?
	  * CQ1.3: how many provinces of Pakistan?
	  * CQ1.4: what are the names of provinces of Pakistan?
	  * CQ1.5: what are the terrestrial areas in Pakistan?
	
	- *CQG2: COVID Origin*
	  * CQ2.1: when 1st COVID case was discovered in Pakistan?
	  * CQ2.2: what is the Origin of COVID?
	  * CQ2.3: what is the overall statistics of COVID cases reported?
	
	- *CQG3: COVID Cases Statistics Report*
	  * CQ3.1: how many overall confirmed COVID cases in Pakistan?
	  * CQ3.2: what is the overall rate of recovered people from COVID in Pakistan?
	  * CQ3.3: what is the overall death rate due to COVID in Pakistan?
	  * CQ3.4: How many people got vaccinations since it was made?
	
	- *CQG4: Provincial and Territorial Cases*
	  * CQ4.1: how many cases are reported in Punjab?
	  * CQ4.2: how many cases are reported in Sindh?
	  * CQ4.3: how many cases are reported in KPK?
	  * CQ4.4: how many cases are reported in Balochistan?
	  * CQ4.5: how many cases are reported in Islamabad Capital Territory?
	  * CQ4.6: how many cases are reported in Gilgit Baltistan Territory?

∗ CQ4.7: how many cases are reported in Azad Kashmir Territory?

- *CQG5: Patients*
  ∗ CQ5.1: what are the symptoms discovered in the patients?
  ∗ CQ5.2: what are the other diseases, a person is affected from?
  ∗ CQ5.3: is patient actually suffering from COVID?
  ∗ CQ5.4: is patient vaccinated after it was discovered?
  ∗ CQ5.5: which vaccine was dosed to the patient?

- *CQG6: Preventive Measures*
  ∗ CQ6.1: what are the preventive measures take from COVID?
  ∗ CQ6.2: by whom these preventive measures are to be enforced/ implemented?

- *CQG7: COVID Variants*
  ∗ CQ7.1: what are the COVID variant types?

- *CGG8: COVID Vaccination*
  ∗ CQ8.1: when 1st Vaccine was appeared in Pakistan?
  ∗ CQ8.2: what are the Vaccine Doses Types?
  ∗ CQ8.3: what is the Vaccination status among people?
    ➢ Booster Dose
    ➢ First Dose
    ➢ Fully Vaccinated

  ∗ CQ8.4: how many total doses Administered in Pakistan?