**COVID-19 USING COGNOS**

**PROJECT DEFINITION:**

The project we aim to address is the need for timely and insightful reporting on the COVID-19 pandemic’s impact on European union(EU) countries. This project involves analyzing COVID-19 cases and deaths data using IBM cognos. The objective is to compare and contrast the mean values and standard deviations of cases and associated deaths per day and by country in the EU/EEA. This project encompasses defining analysis objectives,collecting COVID-19 data,designing relevant visualizations in IBM cognos, and deriving insights from the data.

**DESIGN THINKING:**

**Analysis Objectives**:

Define specific objectives, such as:

* Calculate the mean and standard deviation of daily COVID-19 cases and deaths in EU/EEA countries.
* Compare the mean values of cases and deaths to identify trends and variations.
* Determine if there are any correlations between mean case and death values.
* Identify countries with significantly higher or lower mean values.

**Data Collection**:

* Obtain a comprehensive dataset containing daily COVID-19 cases and deaths by country within the EU/EEA region. Ensure data quality and timeliness.
* Consider data sources such as official health agencies, WHO, or trusted repositories that provide historical data for analysis.

**Visualization Strategy**:

* Choose appropriate chart types for visualizing mean values and standard deviations. For example, line charts can represent trends over time, while bar charts can show comparisons between countries.
* Use color coding and labeling to make visualizations intuitive and easy to understand.
* Ensure that visualizations are interactive, allowing users to explore data by selecting specific countries or date ranges.

**Insights Generation**:

* Identify potential insights:
  + Are there countries that consistently have higher or lower mean values than others?
  + Are there time periods where mean values show significant spikes or declines?
  + Do countries with higher mean cases tend to have higher mean deaths, and vice versa?
* Explore the impact of COVID-19 interventions or vaccination campaigns on mean values and standard deviations.
* Consider regional variations within the EU/EEA and how they affect the data analysis.