**Project : COVID-19 Data Analysis Using IBM Cognos**

**Phase 1: Project Definition and Design Thinking**

**Project Definition:**

**Objective:**

The objective of this project is to analyze COVID-19 cases and deaths data for countries in the EU/EEA. Specifically, we aim to compare and contrast the mean values and standard deviations of cases and associated deaths per day and by country.

Key Steps:

**1. Analysis Objectives Definition:**

- Identify and clearly define the specific objectives of the analysis, such as comparing mean values and standard deviations of cases and deaths.

**2. Data Collection:**

- Obtain the provided data file containing COVID-19 cases and deaths information per day and by country in the EU/EEA.

**3. Visualization Strategy:**

- Plan how to visualize the mean values and standard deviations using IBM Cognos to create informative charts and graphs.

- Consider the choice of visualizations (e.g., line charts, bar graphs) that best convey the data insights.

**4. Insights Generation:**

- Identify potential insights that can be derived from the comparison of mean values and standard deviations of cases and deaths.

- Ensure that the insights align with the project's objectives.

**Design Thinking:**

Design Thinking is an integral part of this project, focusing on a user-centered approach to problem-solving. Here's how Design Thinking principles apply:

**Empathize:**

- Understand the needs and expectations of stakeholders, such as public health officials, policymakers, or researchers, who will use the analysis results.

**Define:**

- Define the problem by specifying the objectives clearly and concisely.

**Ideate:**

- Brainstorm potential visualization approaches and data presentation methods to effectively convey insights.

**Prototype:**

- Create prototype visualizations in IBM Cognos to test different design ideas.

**Test:**

- Evaluate the prototypes for usability and effectiveness in communicating insights.

- Gather feedback from stakeholders and make necessary adjustments.

**Implement:**

- Develop the final visualizations based on feedback and insights gathered during testing.

Iterate:

- Continuously refine and improve the visualizations and analysis process based on user feedback and evolving requirements.