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Project Proposal

Visualization of COVID-19 and SARS

**Introduction**

SARS, or Severe Acute Respiratory Disease, is a viral pneumonia pandemic first identified in November 2002. COVID-19 is an ongoing viral pneumonia pandemic first identified in January 2020.

SARS and COVID-19 were caused by different strings of coronavirus. They are highly contagious with similar transmission routes and risk populations. Severe cases of both diseases could be fatal. Comparing the development trends of both pandemics could render us a better understanding of the transmission dynamics of coronavirus related diseases and bring us insights to prevent future outbreaks.

**Objectives**

The primary objective of this project is to compare the development trends of COVID-19 (January 2020- June 2020) and SARS (November 2002- May 2003) and to visualize the trends as different type of charts. Specifically, the trends will be analyzed in terms of observation date, country, number of confirmed cases, number of recovered cases, death toll, and mortality rate.The visualization process will grant us a glance over the transmission dynamics of coronavirus-related diseases and an intuition of how the disease is most likely to proceed and transmit, thereby facilitate future disease intervention and decision-making processes.

**Proposed System and Platform**

The dataset was retrieved from Kaggle and JHU GitHub repository. The visualization was created with Google API, D3 and Tableau. The project will be presented in Power Point.