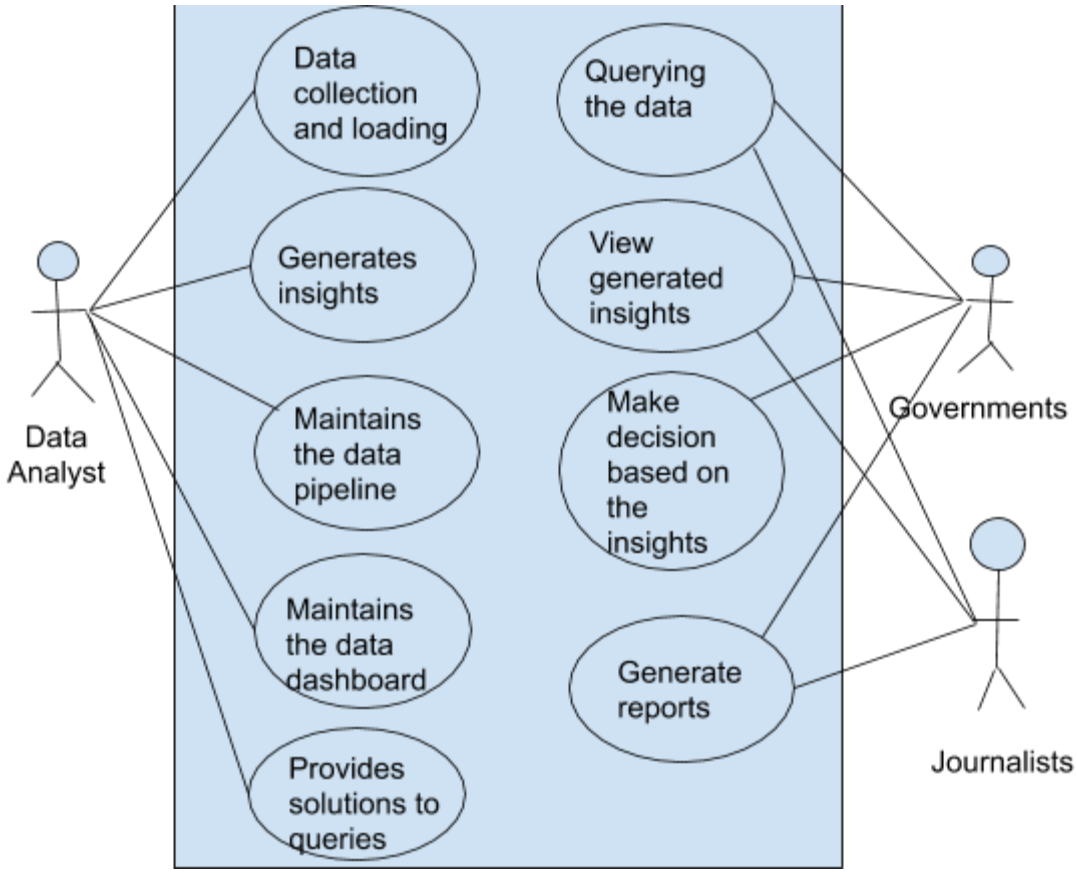
Katwere Leo 17/U/4874/PS
Kengo Wada 17/U/5026/PS
Mayanja Benjamin Vincent 17/U/545
Mugisha Stephen 17/U/6337/PS

SYSTEMS REQUIREMENT SPECIFICATION

Overview:
Use case diagrams are used to show the interactions between the various elements in any given system. Here we aim at illustrating the interactions of data analysts, governments/government agencies and journalists with the dengue fever data analytics pipeline.

USECASE DIAGRAM



1. **Data Analyst:** The data analyst is the creator and overall administrator of the system(analytics pipeline) and bears the responsibility of gathering and loading data into this already created pipeline, generates insights from the data, maintains and updates the analytics pipeline in the form of fixing any errors that may arise. He/she is

responsible for the maintenance of the data dashboard from which other users of the pipeline will be able to make queries into the data and visualize their queries. Solutions to user queries are also supposed to be provided by the analyst.

2. **Governments/Government Agencies:**
   Government and its agencies especially the health ministry/sector need this analytics pipeline to get better and accurate information in regard to the spread of dengue fever so that they know where to devote most of their efforts in combating this fever. Through this analytics pipeline, they are able to know the most affected areas and what factors lead to the prevalence of the disease in these areas. They also have the ability to make other queries into the data and view insights generated by the analyst and in so doing, they are able to make sound decisions in efforts to stop the spread of dengue fever and also in mitigating the risk of spread into other areas. Governments will also be able to generate informative reports about the health risks associated with this disease.

3. **Journalists/Media Agencies:**
   Journalists and various media agencies will also have the privilege to get access to accurate and informative insights about dengue fever and the patterns of its spread and factors associated with high cases of dengue fever. This will enable them to deliver purposeful newscasts and publications to the population at large about what they can do in order to reduce chances of them getting infected with dengue fever.