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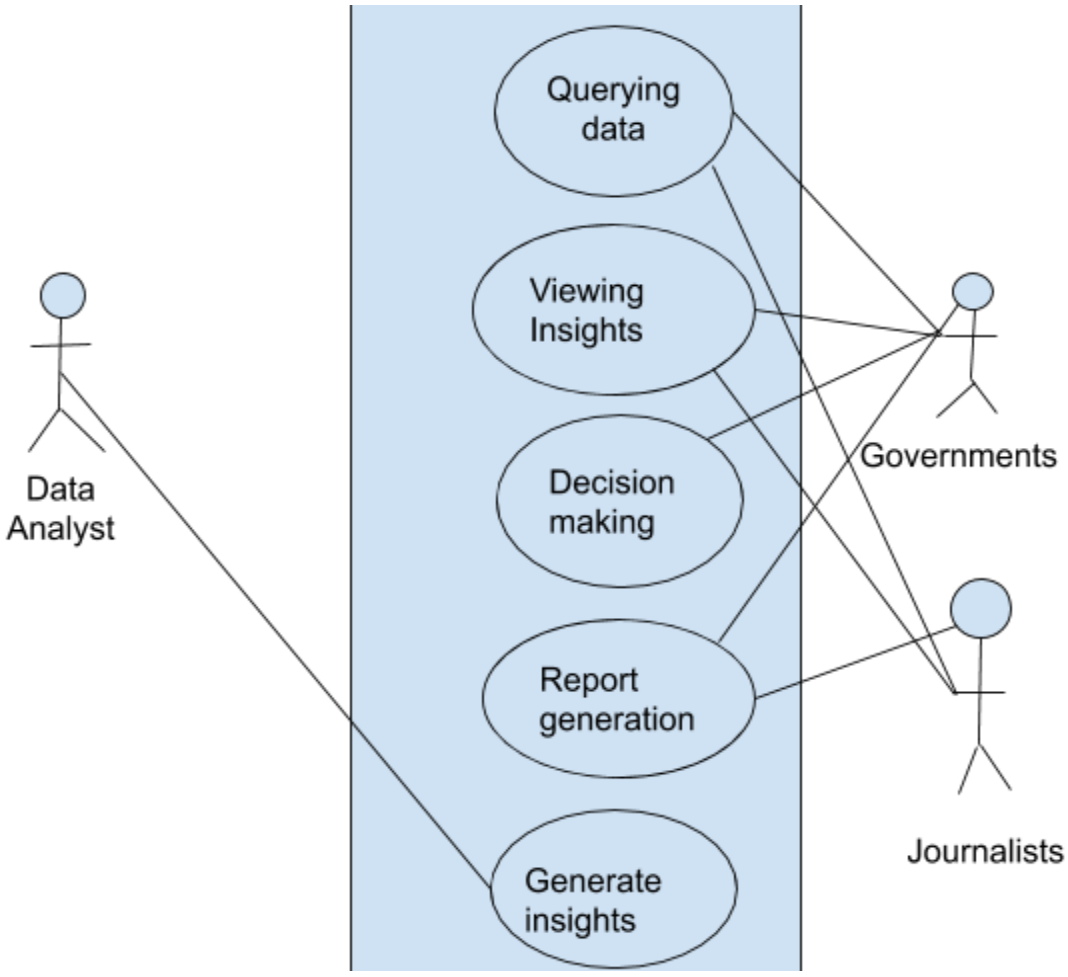
SYSTEMS REQUIREMENT SPECIFICATION

Overview:
Use case diagrams are used to show the interactions between the various elements in any given system. Here we show the actors within the use case but with a major focus on describing the use cases of the dengue fever data analytics pipeline.

USECASE DIAGRAM



1. **Querying data:**
   The dengue fever analytics pipeline facilitates the querying/questioning of the data about this disease and responses to these queries inform of visualizations and statistics returned to the inquirer/user. It is therefore possible for a user to query for instance the climatic factors associated with a large number of dengue fever cases and many more queries.

2. **Viewing insights:**
   Through this analytics pipeline, viewing of generated insights such as the months with the highest cases of dengue fever, by various stakeholders is made possible and easily interpretable by everyone since the pipeline presents insights in the form of visualizations and statistical figures.

3. **Decision making:**
   The insights generated from this pipeline are not only informative but also aid and ease decision making for responsible parties such as health ministries/government and hospitals in regard to how to mitigate risks and also curb the spread of dengue fever. The pipeline is also easily interpretable in that individuals who view insights from it can take necessary measures to safeguard themselves against the disease.

4. **Report generation:**
   Reports are an effective way to formally address and inform specific audiences usually distinguished officials about an issue so that they may push for an intervention and through this dengue fever pipeline, users are able to acquire eye-opening insights for use within their reports to be generated. Other users such as journalist can also create informative reports in the form of newscasts using insights from this analytics pipeline.

5. **Generate insights:**
   Using this dengue fever analytics pipeline affords users the ability to generate new insights by means of issuing queries into the data and responses in the form of visuals and statistical figures returned. This increases the level of informativeness of the pipeline.