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Final Project Proposal

COSC 6344 Visualization – Fall 2019

University of Houston

Visualization of Cause Specific Mortality across Globe

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COSC 6344
Visualization

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Title of the Project:

Visualization of Cause Specific Mortality across Globe

Names:

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Description of the Project:

The goal of the project is to provide an effective and efficient visualization of worldwide mortality and observe the changes and patterns in causes of death over the years. We want to address the following questions as part of our project.

- What is the leading cause of mortality for a geographical region and changes over the years **?**
- What is the effect of gender on mortality **?** And, how this has changed over the years **?**
- What is susceptibility of different age groups to different causes of mortality**?** And, has any progress been made over the years **?**
- Does Location affect mortality **?**

To achieve the goals of our project, we would like to use the data from “World Health Organization” , that can be found at click here.

Timeline and milestones:

Week 1 – 10/27	• Determine the dataset. • Submit Proposal. • Set up environment
Week 2 – 11/3	• Implement an interface to visualize number of deaths in every country across world.
Week 3 – 11/10	• Provide user interaction to choose country and visualize the deaths occurred by each cause of death in that country.
Week 4 – 11/17	• User interaction visualization to understand whether a male/female is impacted the most by a specific cause of death.
Week 5 – 11/24	• Interaction to visualize the age group at which a specific cause of death is most prevalent. • Document observations and draw conclusions.
Week 6 – 12/1	• Final Testing • Report writing • Submission

As it can be seen from the tasks on the timeline, each task is dependent on the visualization and results of it's previous task. Hence, both the teammates would like to co-ordinate and work in parallel on each task.

Expected Outcomes:

The expected outcome is that the visualizations should help the user to interactively visualize and be able to draw conclusions on how people of various geographic locations, sex and age are impacted by different causes of death. Visualizations should be clear enough for the user to deduce if there have been any significant breakthroughs or changes over the past 15 years or if there have been new epidemics and mortality. Does the sex, age or domicile have an effect on the mortality.