Requirements Specification Document

Group: 4
Project Name: Collision Course

The Domain(Chandler)
This application is intended for use by anyone on the road, from truck drivers to bicyclists. The goal is to be able to remind them of what kinds of factors specific to them make them more at risk of being in a collision or at risk of a more serious collision. While the intended user may forget and become careless in regards to certain dangers, this application is meant to help remind them to keep them safe. For example, young and very old drivers may become overconfident in their driving ability, leading to a higher risk of a collision.

Functional Requirements(Zabrain)
The functional requirements specify the results of the system. In this case the application will require a dataset with the necessary information about national collisions. A function to read and organize said dataset. Then it will require a function that implements a searching algorithm to find the relevant data the user is looking for. Next the application will require a function for sorting as it is needed for ordering data and determining which risks are more significant and which ones show a trend.

Non-Functional Requirements(Brennan):
- Reliability: program works the same way every time
- Accuracy: program results should be accurate
- Performance: program should complete in a reasonable amount of time
- HCI: TBD
- Physical/operating constraints: type of computer, RAM, etc.
- Portability: unnecessary

Requirements on the development and maintenance process(Mostapha)