CRP 558 Final Project Proposal

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**Mapping Traffic Crash Data in Iowa**

*Elevator Speech*

The goal of this project is to map historic crash data in Iowa at county and city level. The resultant map will show different types of crash statistics and can be filtered on a year-by-year basis to provide an insight on temporal trend of traffic crash statistics.

*Abstract*

Iowa Department of Transportation maintains a database that includes historical traffic crash statistics with number of crashes, fatalities, injuries, and other data. This data is available at county and city level from the year 2001. The purpose of this project is to produce several thematic maps based on different crash statistics. The users will be able to visualize the dataset on a year-by-year basis so that it provides information on temporal trends of traffic crashes. This data also provides a monthly breakdown of crashes. My plan is to incorporate another filter so that it helps to understand whether there is any seasonal pattern in crash statistics.

*Technology*

* Leaflet
* JavaScript
* jQuery
* JSON

*Data Source and Types*

* Iowa county and city area maps in shapefile format
* Iowa Department of Transportation traffic crash data in JSON format

*Challenges*

Currently, I think the challenge is reading from this large dataset and use multiple filters on different types to crash statistics.