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CRP 558

Final Project Proposal

**Crashes of the Cities where Locates Iowa Universities**

**Elevator**

I will map the crashes took place in cities of three universities in Iowa (Iowa State University, University of Iowa and University of northern Iowa). To see which city offers the best traffic environment and which city is the most pedestrian friendly.

**Abstract**

For the final project for this class, I will map all the crashes happened from year 2012 to year 2016 within Iowa City, Cedar Falls and Ames, based on severity level and frequency level. In addition to that, I will filter out all the crashes that is related to pedestrians to see which city is more pedestrian friendly.

In order to make the map more interactive. I would like to create a shortest path from crash location to the nearest hospital.

**Technology**

Leaflet

Awesome markers

jQuery

JSON

Leaflet plugins

**Data** **Sources**

City Boundaries --- shape file --- convert using OGRE

Crash data --- shape file --- convert using OGRE

City Population --- shape file --- convert using OGRE

Hospital --- shape file --- convert using OGRE

**Challenges**

The challenge I am facing is mostly about creating the shortest path. I might use MapQuest Routing Plugin for leaflet, but it is still in process. Another challenge is to gather all the crash data to get the pedestrians related ones.