**1. James Thompson - CRP 458 – Website to Report Trash and Vandalism in Parks**

**2. Brief:**

When enjoying parks, I sometimes notice trash or destroyed public property. It would be nice to have a way to report this without having to directly call the park managers. It might not always be easy to find out who oversees the specific park I am in. I would like to make a website that could serve this purpose.

**3. Abstract:**

I would like to first have a search option and a pulldown menu with parks for a certain area. I think I’ll use Des Moines Parks since I am familiar with them. It would be nice to have a search by nearest option if someone has GPS activated on their phone, but that might be too much for this project. Please let me know if you think that is a possibility, because it would be fun!

After selecting the park, the next option would say, “Are you reporting litter or destruction of property?”. Two options for litter could be general and large item / appliances. Some options for destruction of property could be physical damage of property, missing or removed item(s), and graffiti. I am considering types of graffiti, such as: violent, gang related, general. However, I don’t think it’s a good idea to get that specific with a subject that could be considered political.

I feel like having the ability to upload pictures into this site would be great. Again, I’m not sure if that is something that would take longer than the allotted time for this project. Finally, it would be lovely if there was the ability to collect a point of where the report was made. If this is not possible, a simple description box would suffice to give a location description.

**4. Technology used:**

GitHub, Leaflet, GeoJson for the park shapefile, ESRI software, and possibly QGIS to convert files to GeoJson. I’m honestly not totally sure what all to use for this.

**5. Data Sources:**

City of Des Moines Parks and Trails: <https://www.dsm.city/city_of_des_moines_gis_data/index.php>

Shapefiles will be converted to Geojson using QGIS. Plugins may be useful for this. I will need to remember to use WGS 84.

**6. Challenges:**

Incorporating GPS functionality to assist park search and point collection.