<table>
<thead>
<tr>
<th><strong>DEPARTMENT:</strong></th>
<th>Engineering and Computer Science</th>
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<tbody>
<tr>
<td><strong>FACULTY SPONSOR:</strong></td>
<td>Dr. Warren MacEvoy</td>
</tr>
<tr>
<td><strong>STUDENT(S):</strong></td>
<td>Andrew Piechota</td>
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<td><strong>PROJECT TITLE:</strong></td>
<td>Simple GIS</td>
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The “Team”

Initially two
   Myself and one other
   Now just me

   Senior, majoring in Computer Science

   Intern at Kaart Group, LLC
      (GIS company in town)
The Terms

GIS – Geographic Information Systems
Systems that deal with spatial data

JOSM – Java OpenStreetMap Editor
Steep learning curve
Robust, stable
Supports the largest amount of plugins

iD – not an acronym : )
Easily accessible
Simple, intuitive

OSM – OpenStreetMap
Comparative to Google/Apple Maps
EXCEPT that all geospatial data on OSM is opensource
The Problem/Requirements

Edit open source and proprietary data – Simultaneously

Other problems that will need to be solved (eventually):  

- Allow several organizations (only allow access to their data)  
- Have pre-built lists of features
The Solution/Design

Not reinventing the wheel

iD was chosen to be modified
   Already opensource (good jumping off point)

Need:
   Frontend, Backends -> (OSM, Prop API, Org DB)
   Access to OSM API (dev version)
   Create/access proprietary API
Summary

Forked iD and modified it
   Allow users to edit OSM & proprietary data concurrently

Created splash/login screen with React and Flask

Created organizational backend with Flask (will eventually hook up to splash/login)

Hooked up LightSail instance of proprietary API (OSM API clone)
   I did not create this LightSail instance, the senior dev over at Kaart did all of the configuration for it. I hooked it into the iD editor.
Questions?

Feel free to email me at:

acpiechota@mavs.coloradomesa.edu