

**MICHIGAN STATE**  
**UNIVERSITY**

# Alpha Presentation

## Web-Based Geography Management

### The Capstone Experience

Team Urban Science

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Fall 2012



*From Students...*  
*...to Professionals*

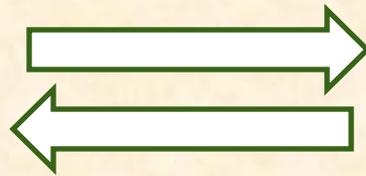
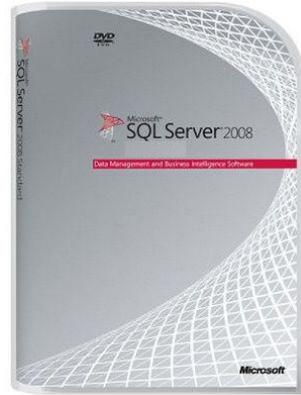
# Project Overview

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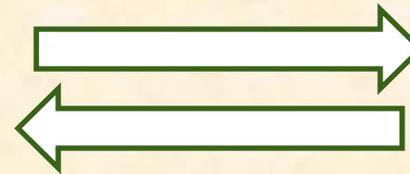
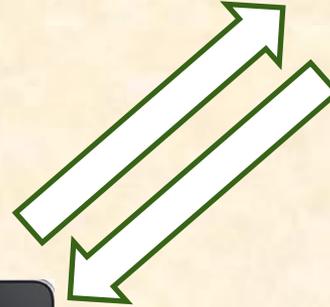
- Create a geography management tool for efficient data analysis and manipulation
- Must contain a hierarchy:
  - Census Tracts
  - Primary Market Areas (PMAs)
  - Markets
  - Regions
- Easy interaction on an iPad



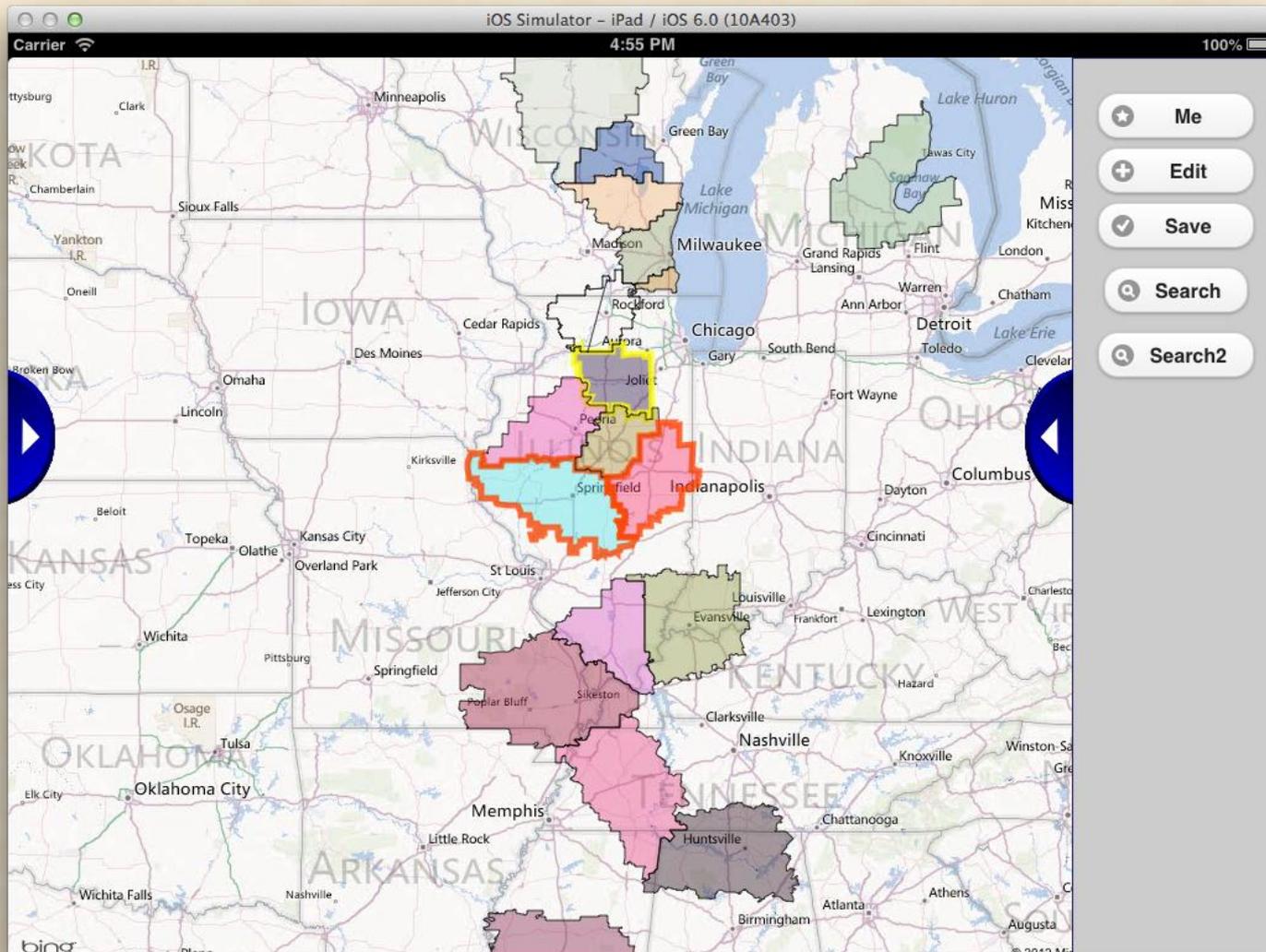
# System Architecture



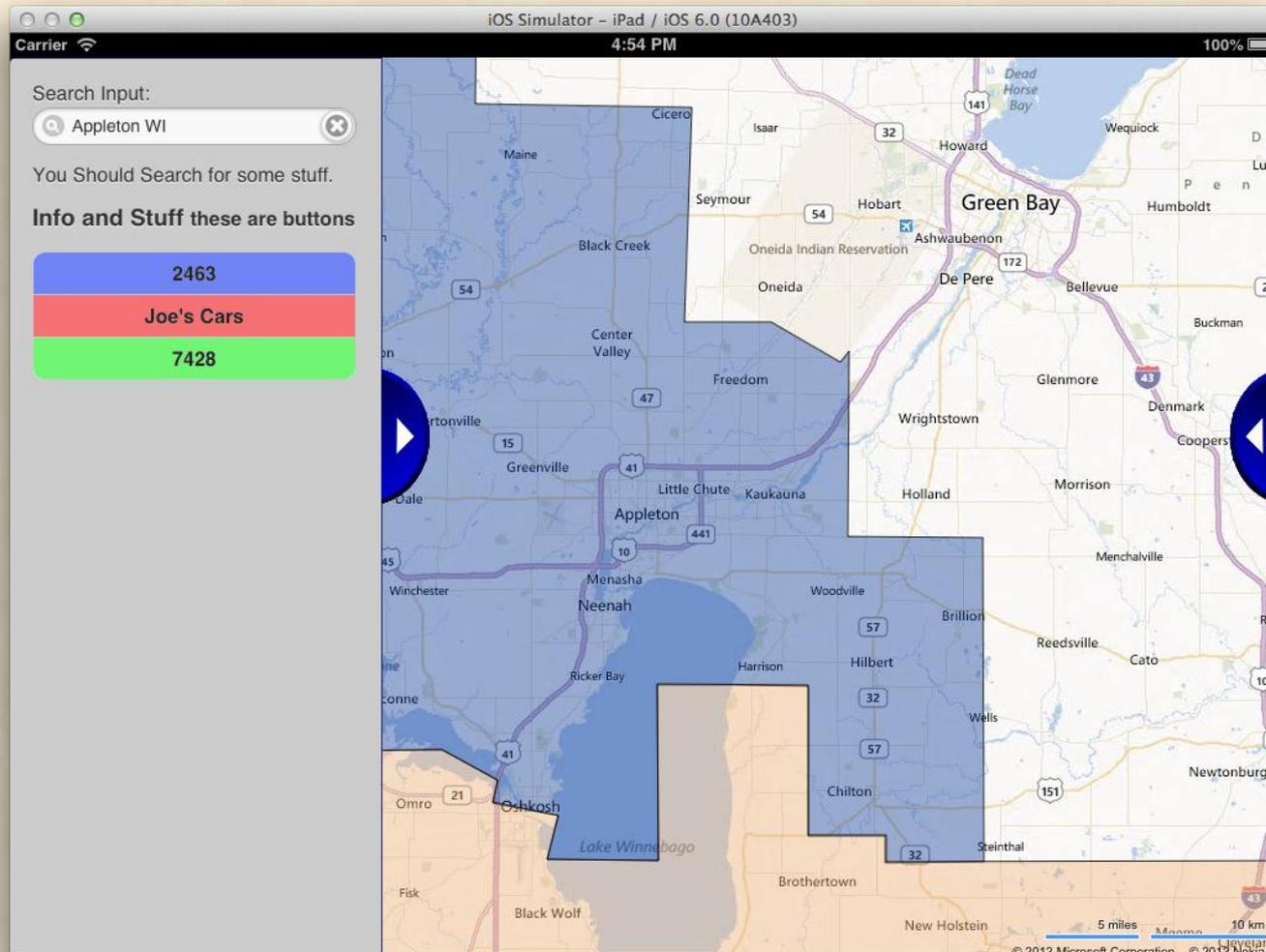
RESTful Web Service



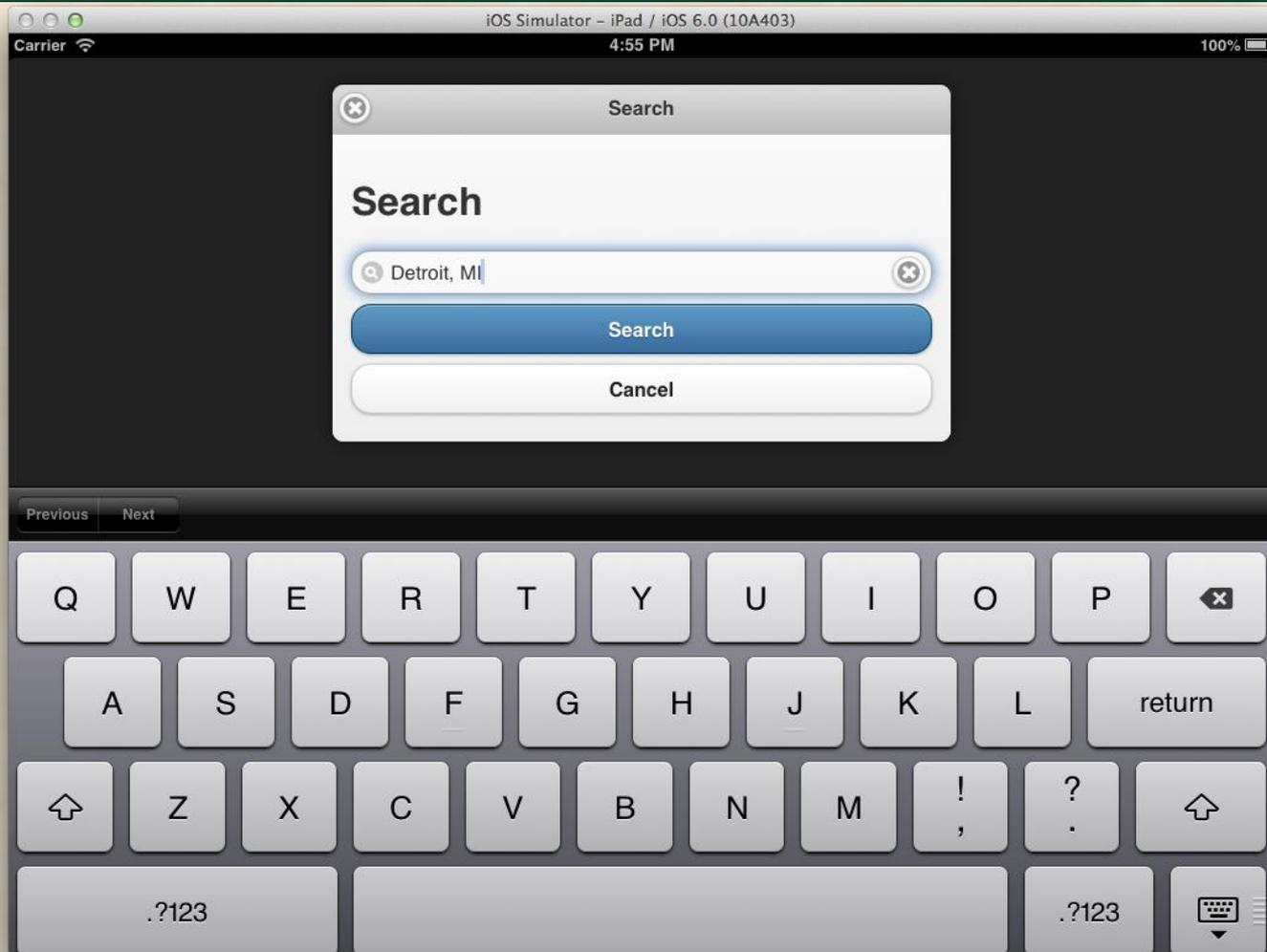
# Editing Polygons and Right Tab



# Relevant Date and Left Tab



# Search



# What's left to do?

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- Add advanced polygons
- Add all polygons in view and have application running fast and fluid
- Change polygons and update the database
- Expand on search functionality
- Show relevant polygon data in left tab
- Application design (color/buttons)
- Undo/Redo

