

# New Jersey State Police Gang Survey iPhone Application

John E Jones

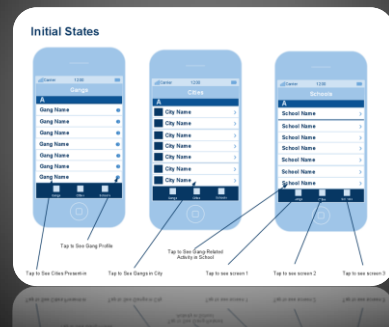
## Background

- Data based on survey that the NJSP gives to its officers every three years
- Survey data collected includes data about regional gang activity and gang-specific information
- Currently implemented as a web application (<http://njgangsurvey.civimpulse.com/>)

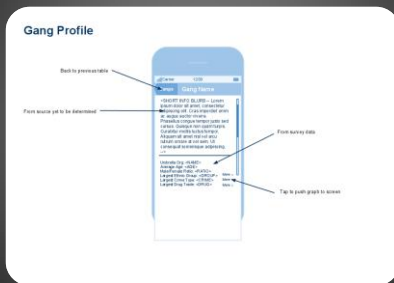
Platform:

## Apple iPhone

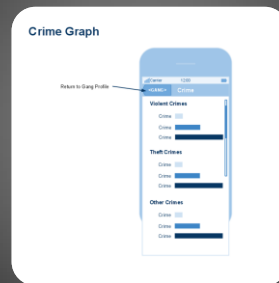
## Starting Points



## Profiles for Gangs, Regions, and Schools



## Charts for Data



Implementation:

## Issues and Challenges

## Issue: Data Persistence

- Solution: Apple's Core Data API
- Data Persistence library based on SQLite (A lightweight SQL API) that handles object creation, updating, and deleting
- Also includes a robust data modeling tool which then creates the database schema and data classes
- Will "preload" data from surveys into database prior to each compilation using custom tools

## Challenge: Data Visualization

- Experience but not proficient with Apple's Quartz Library
- Little experience with data visualization and dataset analysis
- Will spend this semester implementing core, then devote the spring to graphics

Questions?