The Mobile Application
- Automatic or manual tracking
- Gathers location updates
- Optimizes battery usage
- Syncs data with web application
- Tour updates via Google Cloud Messaging

Challenge
Large events such as The Five Boro Bike Tour, with upwards of 30,000 riders, are faced with the problem of not knowing how the participants are progressing throughout the route. If this information were known, the rides could be improved as well as immediate countermeasures deployed to deal with problem spots. TourTrak’s aim is to improve the quality of the tour experience and rider satisfaction.

The Web Application
- Processes user location data
- Location data visualization
- Route and rider mapping
- Timelapse of rider progress
- Charts rider and tour analytics
- Simplified tour configuration

System Architecture

What is TourTrak?
For people who participate in and those who organize bike tours, TourTrak is a location based tracking system that provides clear analysis of rider progress and congestion during the event.

Future Plans
- iOS support
- Points of Interest
- Automatic start/stop at start/finish line.
- Personalized rider and tour statistics
- Alert button to contact tour officials

Diagram of System Architecture

Diagram of User Interface