Lab 2 Section 3 Collaborative Outline

1. Specific Requirements
   1. Functional Requirements
      1. Databases (**Odean Maye)**
         1. Trains
         2. User info
         3. Stops
         4. Events
         5. Attractions
         6. Ridership
      2. Decision Engine (**Nathan Lutz**)
         1. DB Communication
         2. Ridership Trend Report
         3. Delay impact
      3. Test Harness **(Akeem Edwards)**
         1. GPS data generation
         2. Ridership data control
         3. Train Control
         4. GUI
         5. Business Ad campaign control
      4. Web Application Engine
         1. Rider GUI (**Chris Coykendall**)
            1. Station Map
            2. Alert Overview
            3. Feedback Submission
            4. System Overview
            5. Google Maps form
            6. Calendar Events
            7. Ridership Reports
            8. DB Communication
         2. HRT GUI (**CJ Deaver**)
            1. User Control
            2. Station Map
            3. Alert Submission/Overview
            4. Feedback Review
            5. System Overview
            6. Google Maps form
            7. Calendar Events
            8. Ridership Reports
            9. DB Communication
         3. Business GUI (**Brian Dunn**)
            1. Station Map
            2. Alert Overview
            3. Feedback Submission
            4. System Overview
            5. Google Maps form
            6. Ridership Reports
            7. DB Communication
   2. Performance Requirements
      1. Database Read/Write Speed (Odean Maye)
      2. Web App Engine Performance (Chris Coykendall)
      3. Data validation (Akeem Edwards)
         1. GPS
         2. Ridership
      4. Algorithm Efficiency (Nathan Lutz)
         1. Trending
      5. Prototype Demonstration (Collaborative)
   3. Assumptions and Constraints **(Collaborative)**
      * Assumptions: Users
   4. Non-functional Requirements **(Nathan Lutz)**
      1. Authentication
      2. Maintainability
      3. Reliability
         1. VM Uptime/Redundancy