Vision Statement

Meeting Time: Tues/Thurs 12:30 - 2pm

Project Title / Name (can change)

**RGenius Analytics**

Team name, members names/emails

**RGenius**

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What the project is about

- What problem the project is solving (what is innovation, the science, and new core technical advance)?

  The problem we must solve is finding new ways to analyze data collected by a network of routers and displaying the data in a way that shows the important trends and any issues that need to be addressed.

- Why the problem is important

  The dashboard will enable engineers to quickly pinpoint router problems and outages, and allow analysis of all routers which assists greatly in the development and maintenance process. This could potentially lead to new use cases and software implementations to improve the customer’s experience with the routers, and improve the router’s themselves.

- How the problem is solved today (if it is)

  ○ **Relevant Solutions**
    - Corvil and LiveAction: Network Insight and Analytics
    - CradlePoint: Network Device Monitoring
    - Cisco: Router Dashboard (Detailed View)

Identify the outcome of the project

**Backend:** Analyze the data from their databases and create API to be called for dashboard
Web: Display the analytics on a cloud-based dashboard in an informative and creative way for both world and ISP views

Define initial project milestones: specification, design, prototyping

**Specification:**
- Develop modules for device analytics
- Create a web services with user interaction
- Display the analytics on dashboard for world and ISP perspective

**Design:**
- Mock ups of UI
- Define API for interactions between frontend/backend
- Define a set of initial analytics to implement

**Prototyping:**
- Successfully querying DB
- Clean input data
- Implement initial analytics
- Pass data to frontend and display corresponding analytics

How do you plan to articulate and design a solution
- List the implementation platform and technologies will plan to use to develop the solution
  - AWS, Python, React, MongoDB, Docker
- Overview the process model you will employ to achieve the milestones
  - Agile