Release Plan – TrafficDump

v0.1 - Oct 9, 2018

**High Level Goals**

* Analyze network traffic (DNS and HTTP requests) from devices around campus to provide performance metrics that can be used in a data visualization
* Using those network metrics, our project will provide a location with the best network signal and the most efficient (computer network) route to that location
* Combination of Google Maps API with UCSC Access Points to display connection speeds
* Trace-back using an IP address to mark a geographic location for that address
* Log network traffic and create some data visualization using Tableau

**User Stories**

Sprint 1: Mapping out the network traffic trend

* As a network analyst, I would like to observe and sample network traffic in my area so I know when the routers/Access Points are busiest.
* As a student, I would like to know where on campus has the best network signal at a specific time so I can complete my assignments without network interruptions.

Sprint 2: Network analysis with interactive visualization

* As a network analyst or technician, I want to see a visual representation of network traffic of all the devices of interest so I can show clients with limited networking knowledge
* As a student, I want to be able to see a graph of when a router/Access Point at the library is most busy so I can plan on working around it.

Sprint 3: Back-tracing network signals

* As a student with finals approaching, I would like to have a map with locations to the library’s Access Points with the best internet connection so that I can spend less time walking around and more time being productive.

**Product Backlog**

* None as of now