

Rural Net



Code4UV

Eshin Jolly 1/28/21

Outline

- History & Goals
- "Deliverables"
- Current Approach
- Contribution needs
- Resources

Project History

Ed Childs raised the need for a solution help Corinth make a case for improved internet infrastructure. This was initially based on following the approach that was successful for Newbury.

We quickly realized many towns were facing a similar issue: to make a case for funding infrastructure improvement, they had to demonstrate that current ISP speed claims were misleading or failed to reflect experienced speeds.

Project Goals

- Develop a web-application that can measure a user's internet speed easily while:
 - Respecting privacy (aggregated location); taking into account measurement variability (repeat testing, etc); making it easy to map measured speeds
- Survey users about their internet experience and satisfaction

"Deliverables"

1. Speed-test web-app
2. User survey + results
3. Publicly available map comparing measured speeds to ISP reported speeds (Arlene)

Current Approach

- Single-page-application built with [Svelte](#)
- Backend using [LibreSpeed](#) for measurement
 - User downloads/upload random bytes of increasing size to measure speed
- Location gathered via Mapquest API
- Data stored in [MongoDB Atlas](#) (cloud database)
- App served via [Heroku](#) (auto-deploys from github)

Project Needs

- [Github project board](#)
 - general code cleanup; fixing some speedtest issues; styling webapp (Jennifer)
- Survey content finalization + integration with app logic and database
- Map generation
- Testing, testing, testing



Rural Internet

#ruralnet on slack

 [Github Repo](#)

 [Todos](#)

Data download pwd: code4UV

MAPQUEST_KEY: v4AYOi4EK5CrixkWHmGcPCfeA20X7P8y

 [Overview](#) ← START HERE















 [Links & Resources](#)

 [Relevant News Articles](#)

 [Proposed Ideas \(outdated\)](#)

 [App Building Resources](#)

Meetings

 Name	 Date	+
 Standing Meeting	Jan 14, 2021	
 Standing Meeting	Oct 22, 2020	
 Nate & Eshin	Oct 14, 2020	
 Standing Meeting	Oct 8, 2020	
 Standing Meeting	Sep 24, 2020	
 Standing Meeting	Sep 10, 2020	
 David Healy, Craig, Eshin	Jun 23, 2020	
 Ed's correspondence with Vermont Dept of Public Service	May 12, 2020	
 Standing Meeting	Apr 23, 2020	
 Standing Meeting	Apr 9, 2020	
 Standing Meeting	Mar 26, 2020	
 Standing Meeting	Mar 12, 2020	

+ New

Resources

- [Notion](#) just reach out if you haven't been invited yet
- Slack [#ruralnet](#) (same as above)
- [Github Repo](#)
- [VT Dept of Public Service](#) contains some statistics and maps from data provided by ISPs
- [Stone Environmental Maps](#) in particular the [broadband status 2019](#) and [broadband status 2019 enhanced](#)

Quick Walkthrough