Rural Net

Code4UV

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Outline

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

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"

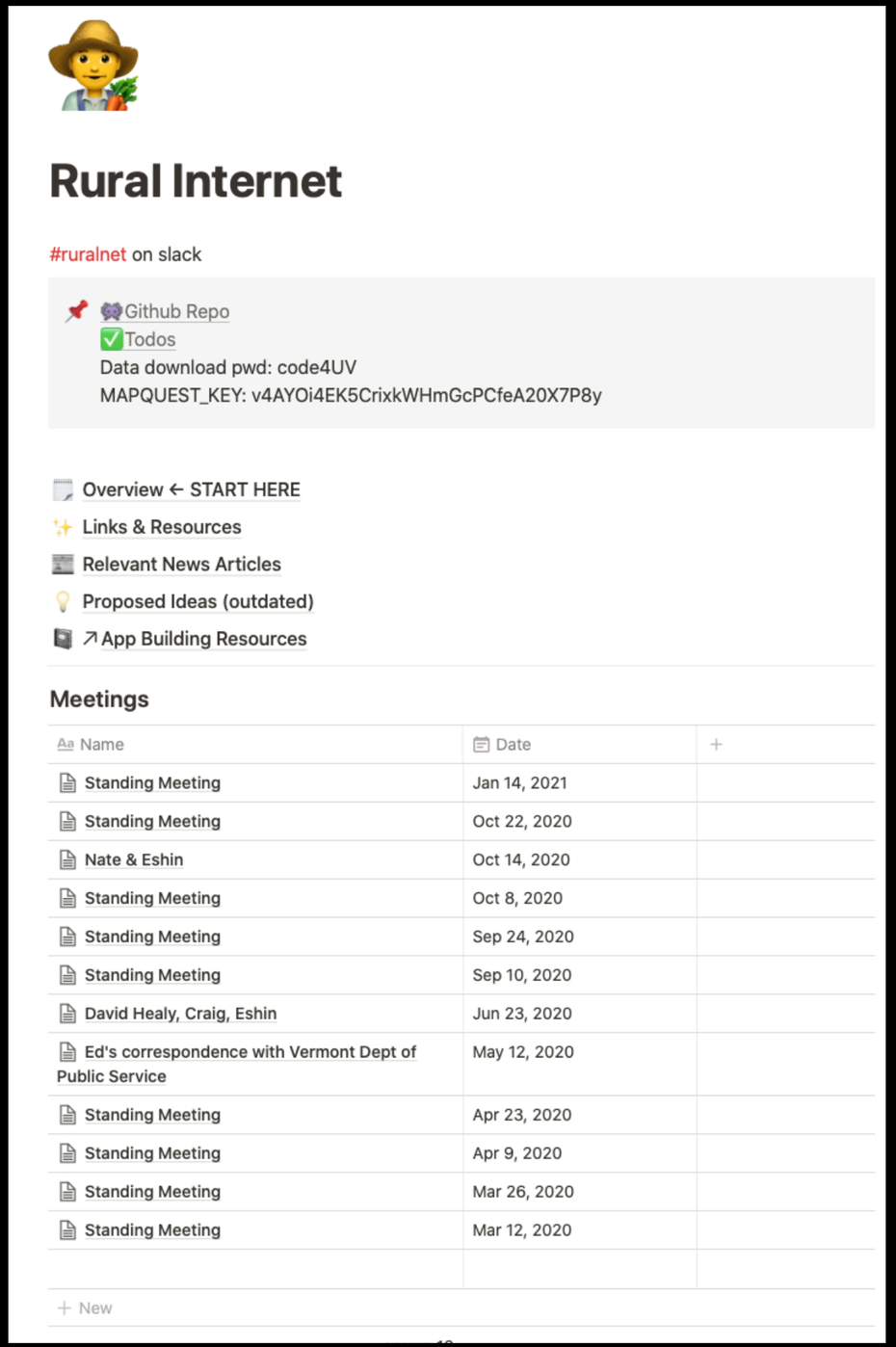
1. Speed-test web-app
2. User survey + results
3. Publicly available map comparing measured speeds to ISP reported speeds (Arlene)

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💡 Proposed Ideas (outdated)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