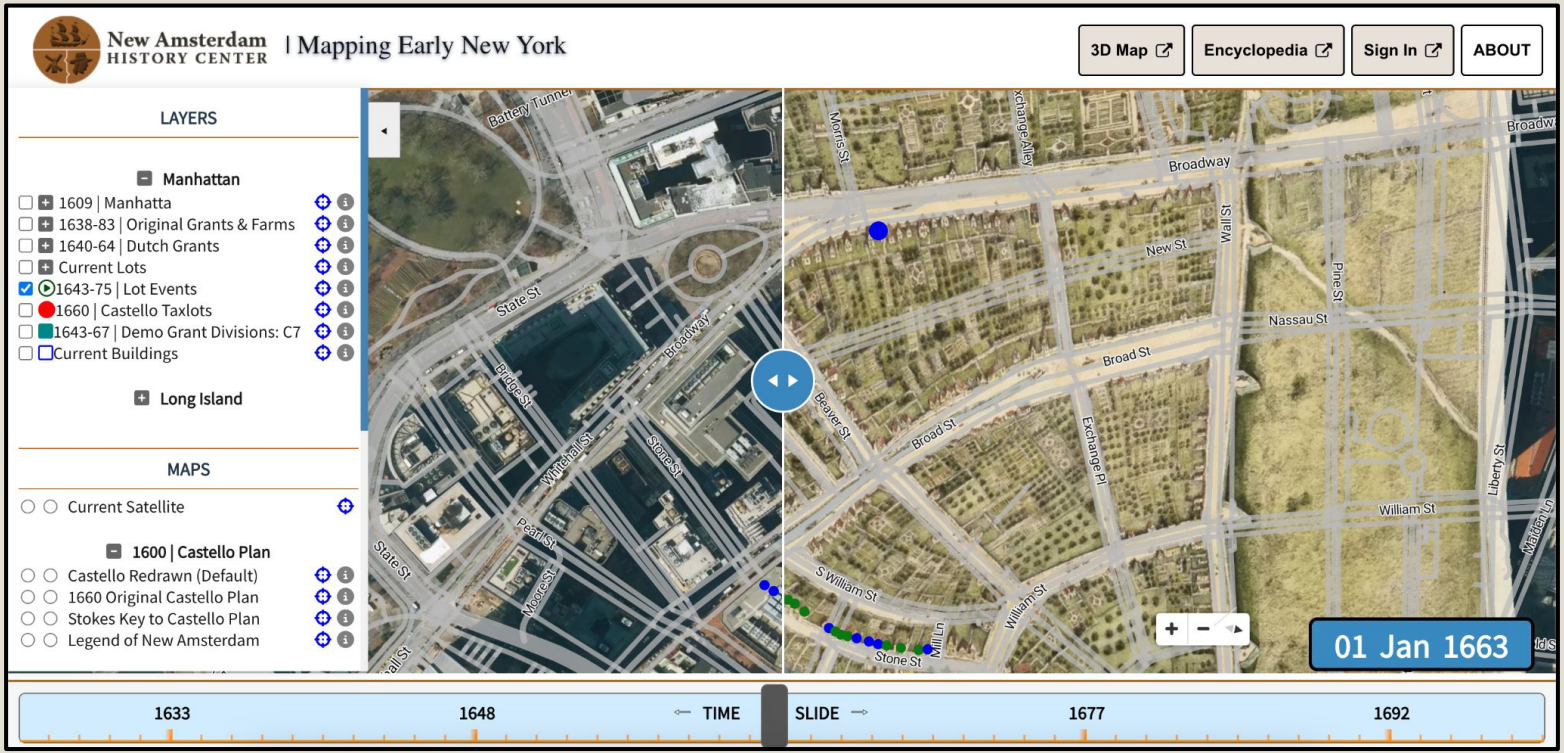
WebMap

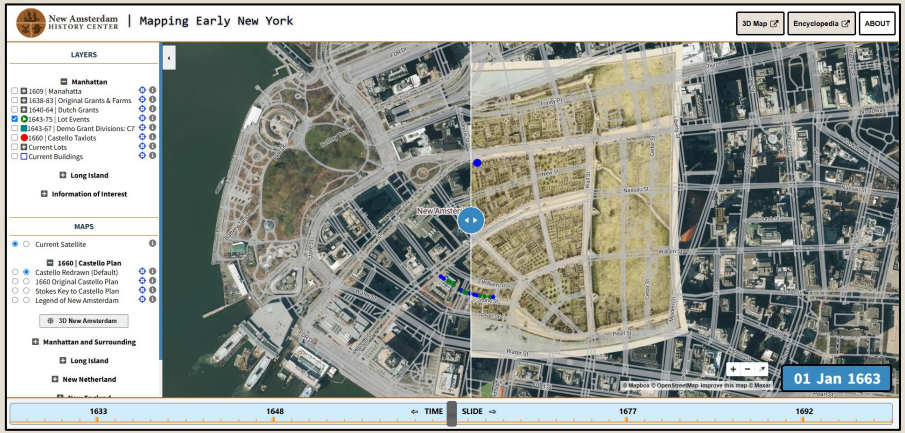


Aren Ashlock, Subham Bhattacharya, Michael Gelineau, Braeden Hegarty, Seth Watgen

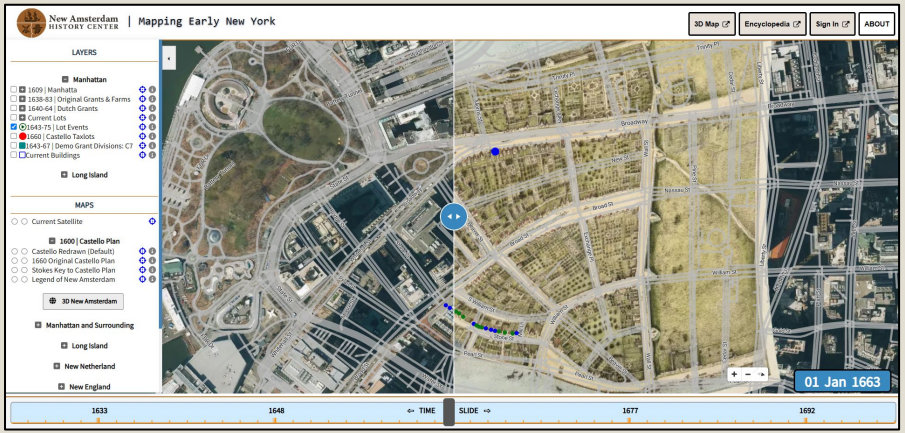
Our Project

Recap

- Map Creation Site (maptructor.org) - Mapping New York
- Goal #1 - Build a stronger foundation for site
  - Fix bugs
  - Improve UI
  - Complete features
- Goal #2 - Replace old implementation of the site



(Original site)



(Development site)

Current Goals

- Fix remaining bugs
- Make cosmetics/interactions identical

← Up until 1.5 weeks ago

- Separate instances for different maps
- Create feature to draw maps
- Add accounts
- Allow users to select a map

← Past 1.5 weeks and on

Design and Implementation

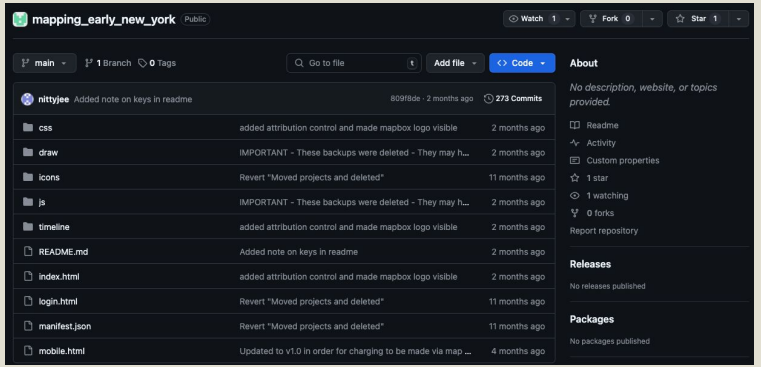
Fixing the Bugs

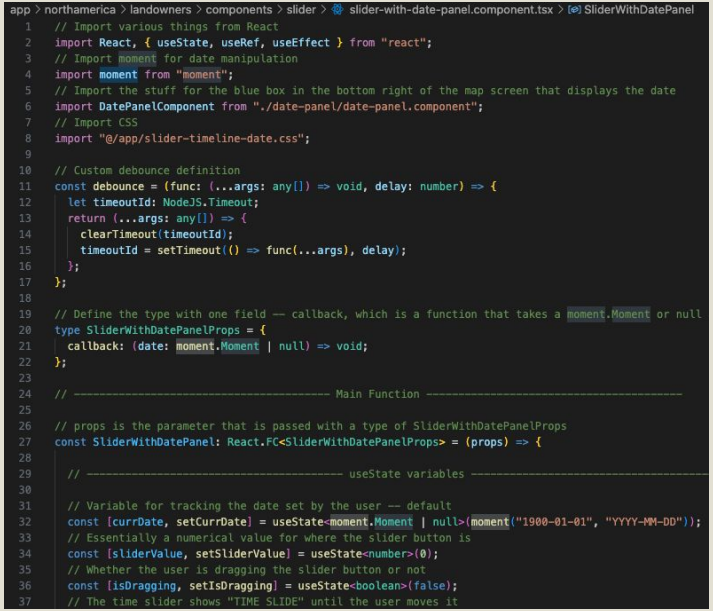
How we solved them:

- Work together to learn interactions
- Comment the old code (and refactor)
- Check the console log for "breakpoints"

Challenges:

- Understanding the API
- Past design choices make them more difficult





Same Interactivity

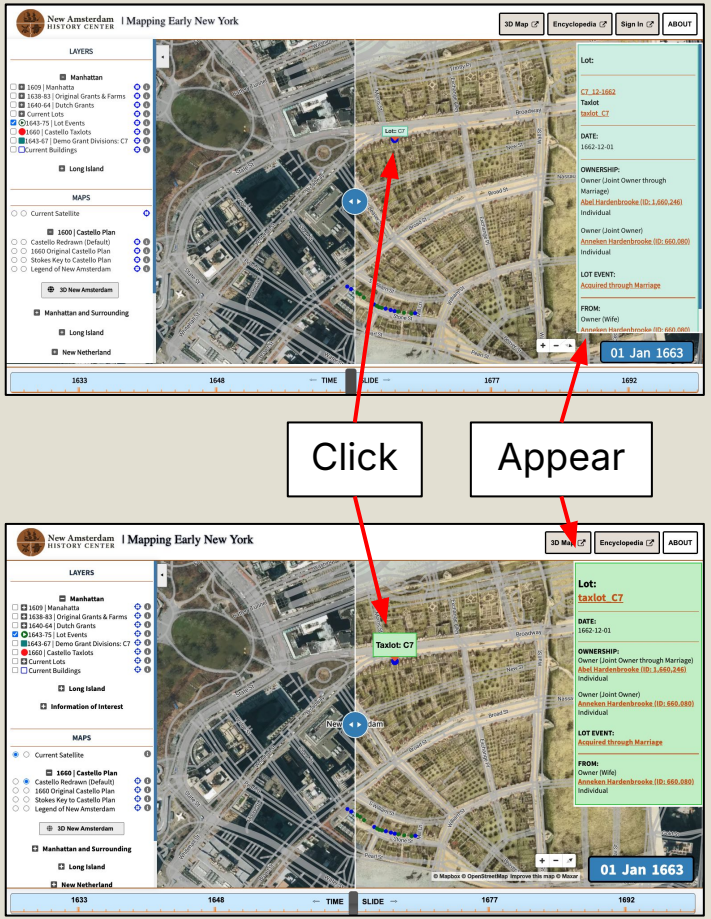
Resources to help resolve:

- Tab between sites to notice differences
- Using the old site's code as reference

Challenges:

- Many layers of CSS building
- Timing, sizing, colors had to match
- Dynamic elements depending on window size

(Development site)



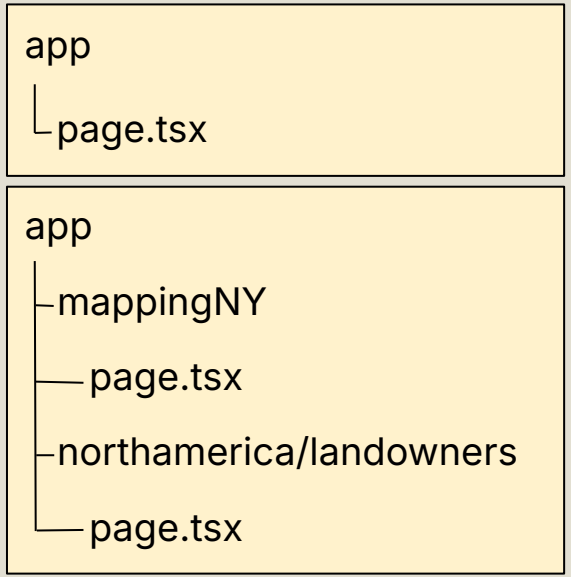
(Original site)

Separate Instances

Client: Wanted different domain paths

Solution: Restructure the code

- Determine what code needed to be separate
- Build new backend (and generate prisma)
- Document process for future implementations



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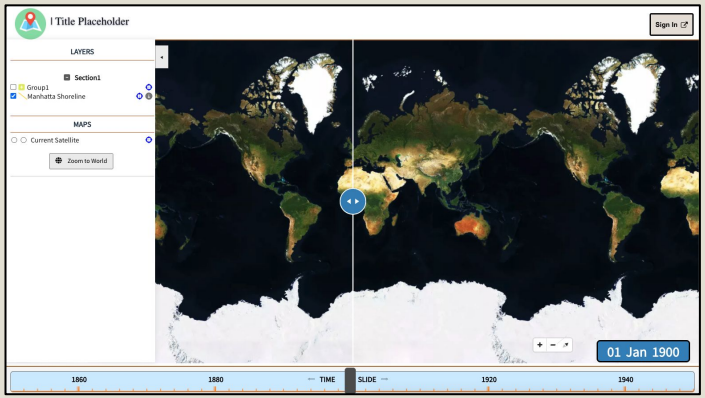
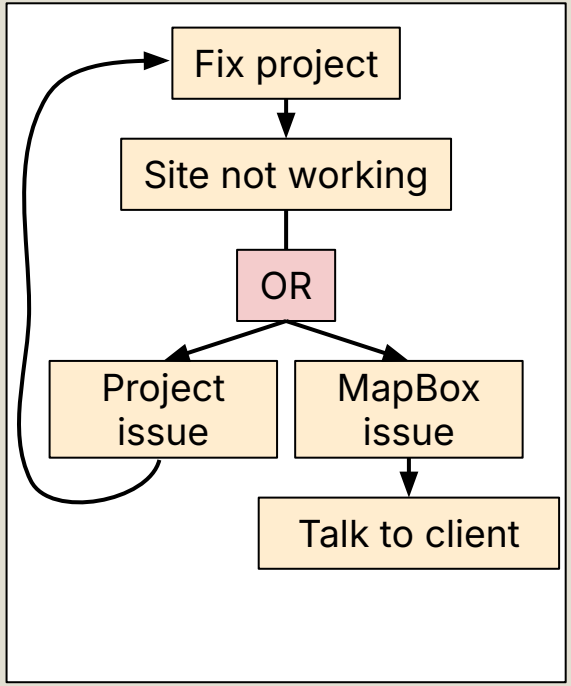


Separate Instances

Challenges:

- Next.js API fetches are specific
- Incorporating multiple environment variables
- Building different prisma schema
- Ensuring project is functional on Vercel
- Testing locally vs deployment
- Understanding if issues are MapBox or code
- Lots of little changes needed




```
12:32:30.133   This happened because Prisma Client was generated for "darwin-arm64", but the actual deployment required "rhel-openssl-3.0.
12:32:30.133   Add "rhel-openssl-3.0.x" to `binaryTargets` in the "schema.prisma" file and run `prisma generate` after saving it:
12:32:30.133
12:32:30.133   generator client {
12:32:30.133     provider      = "prisma-client-js"
12:32:30.133     binaryTargets = ["native", "rhel-openssl-3.0.x"]
12:32:30.134   }
```

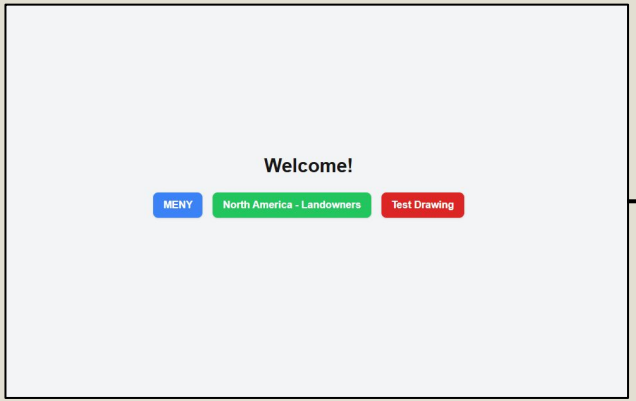
Prisma Issues

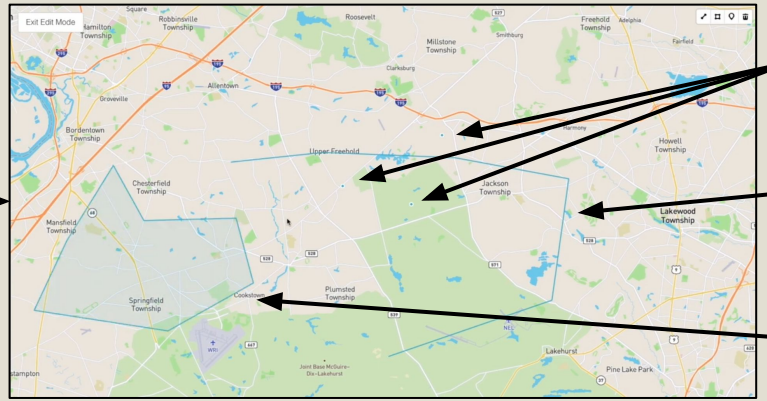
Drawing

Client: Ability to draw maps using tools

What we have learned so far:

- Development page for research/experimenting with new drawing features
- Ability to add markers, lines, polygons

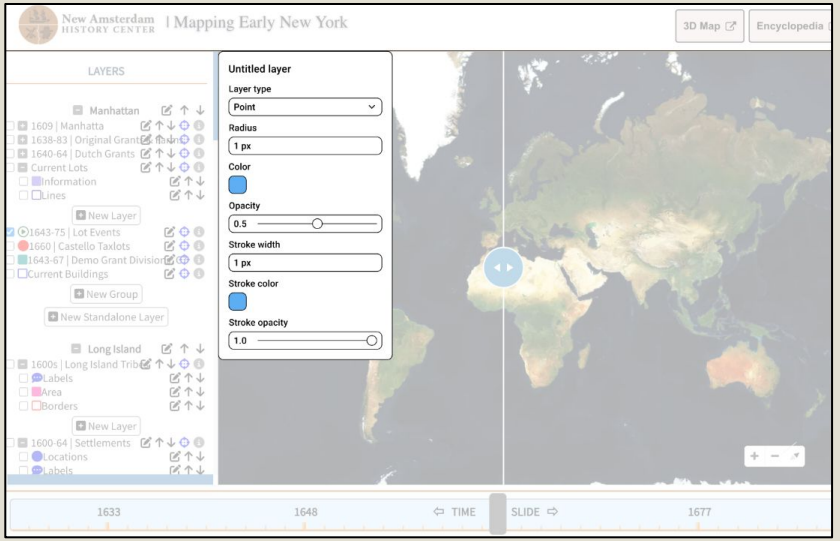


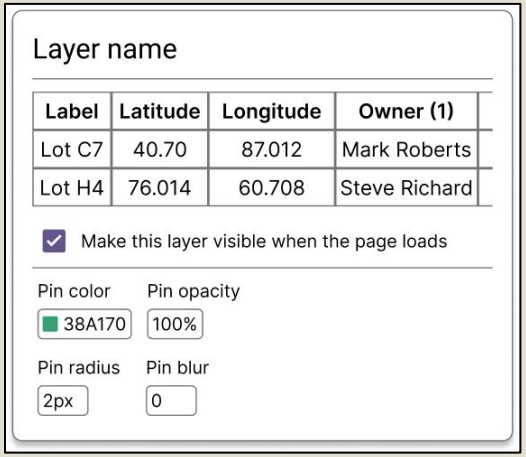


Drawing

Early thoughts:

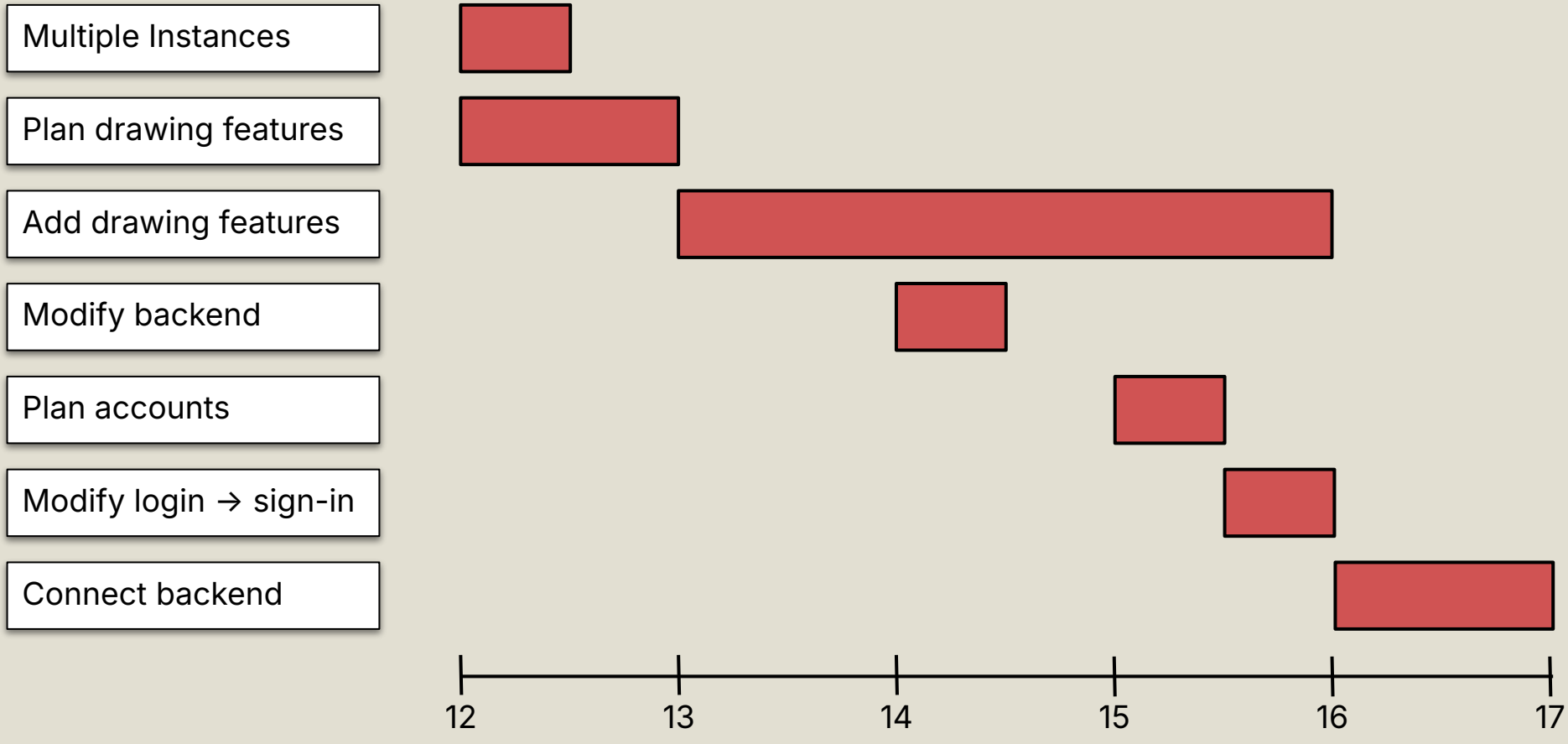
- Create a new collection
  - Just stores drawing information
  - GeoJSON
- Connect user accounts to drawing
  - Already implemented, just expand
  - Include registration
  - Only let creators see data they make





Remaining Work Timeline

Timeline


Multiple Instances
Plan drawing features
Add drawing features
Modify backend
Plan accounts
Modify login → sign-in
Connect backend
12
13
14
15
16
17

Demo!

WebMap

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https://youtu.be/yx_9zTAlpuo