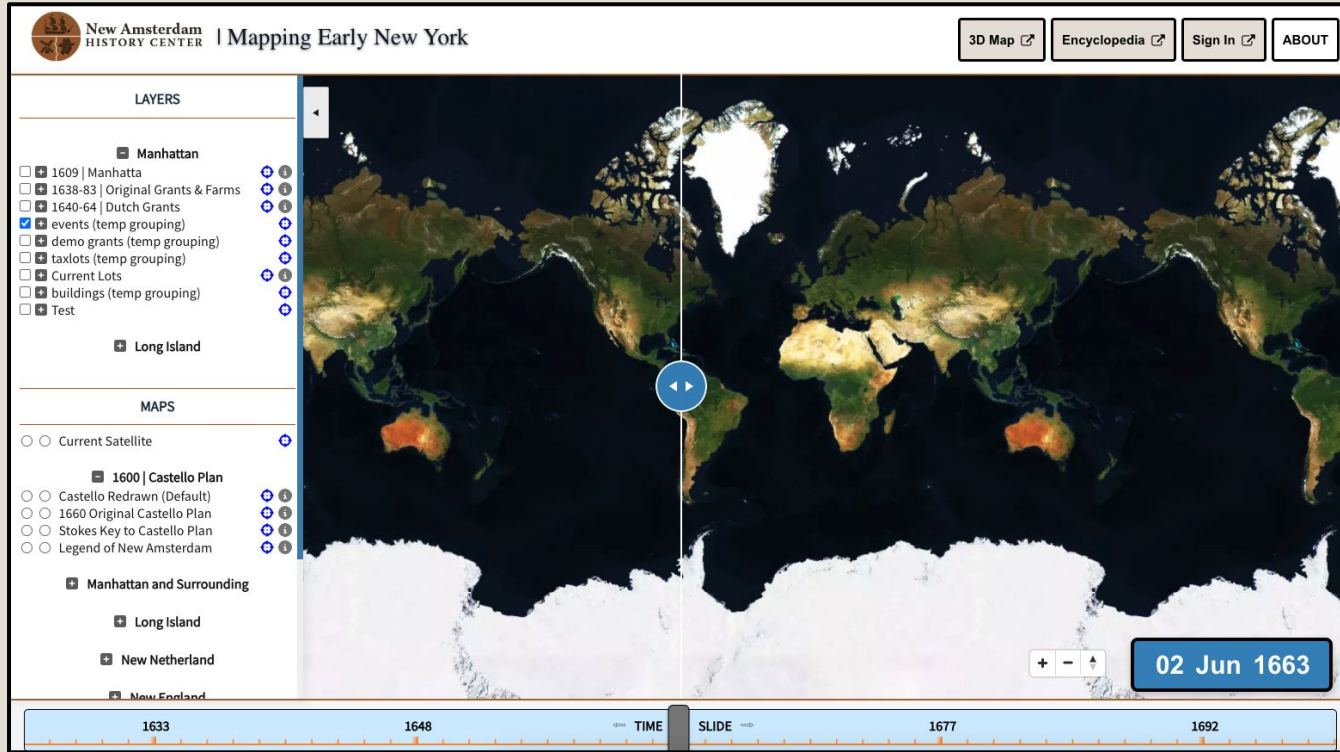


# WebMap

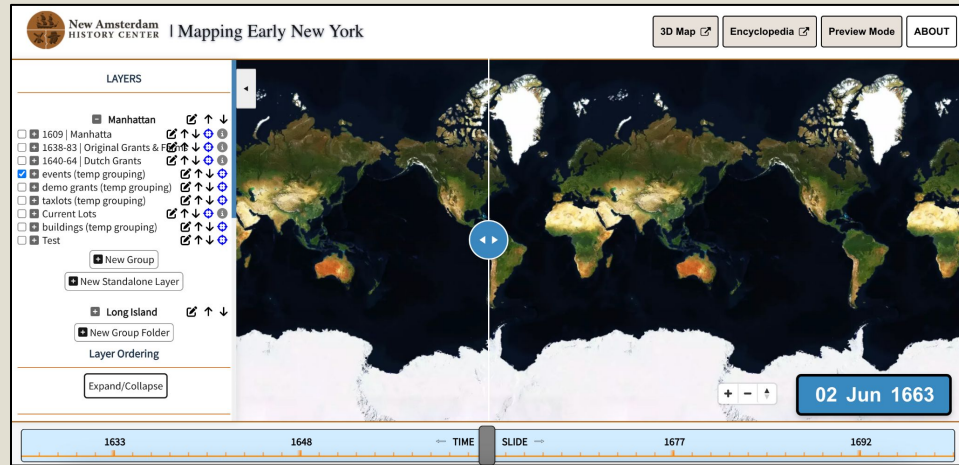
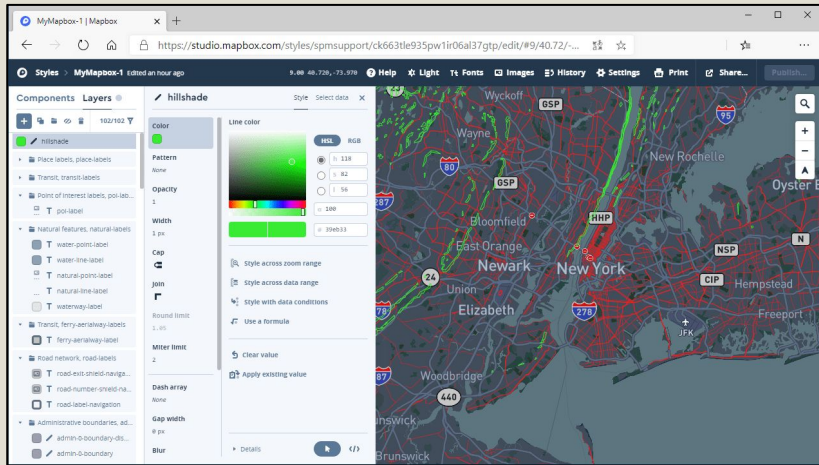


Aren Ashlock, Subham Bhattacharya, Michael Gelineau, Braeden Hegarty, Seth Watgen

**Problem Being Addressed**

# What is Our Project Solving?

- There aren't many options for creating interactive maps
  - Google My Maps, MapCreator.io
- MapStructor emphasizes customization
- Make map creation simpler



# Basic Features

- Choose an area to start building
- Import or draw map layers
- Share map with others and collaborate

# Development Challenges and Choices

# Challenges

- Discovering wants of client
- Catching up to previous group
- Picking up an existing project
  - Understanding structure, code, and functionality
  - Utilizing their code to fix bugs quick
- Working with MapBox GIS
- Communicating limitations/capabilities of project with the client

# Choices

- Spend time learning about the site and its functionality
  - Both new and old sites
  - Watching videos and talking with the client
- Begin working on bugs and assisting other developers
  - When done with one, pick up another
  - "All hands on deck" approach to identifying issues
- Keep an honest yet driven schedule with our client

# Software Development Practices and Tools



## Programming language and framework



+



## Database and APIs



**Prisma**



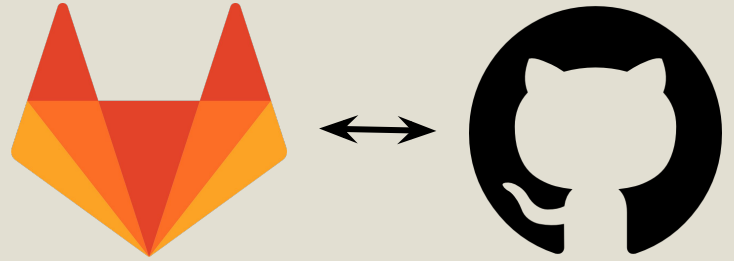
**MongoDB®**



**mapbox**

# Practices and Tools

- Agile development
- Require a minimum of 1 peer review before every merge
- Mirroring GitLab to GitHub
- JIRA Ticket Software
- MapBox API



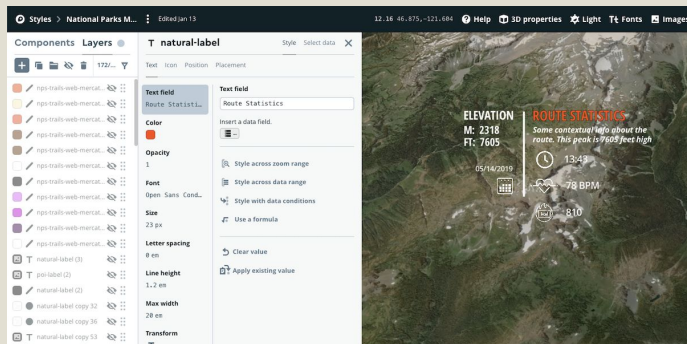
# Current Progress and Challenges

- Understand the code better
  - New MENY
  - Basic Map Editor
- Initial bugs are mostly fixed
  - Keep discovering more bugs

Issue	Priority (1-10)	Progress	Who	Difficulty	Min Date	Max Date	Completion Date	Notes
1 Unable to add groups or layers	10	In progress	Braeden					Able to add layer but data does not visibly appear
2 Refresh is required usually, with error message	9	Complete	Michael and Aren				2/12/2023	Believed to be fixed by committing out 2 else statements... Aren 2/10/25 Not completely clear about what lines were for. Don't seem to be important. - Nitin
3 Line thickness changes do not persist in form	9	In progress	Seth					
4 Checkboxes are not toggling and some have no data appearing	9	Complete	Seth	Medium			2/19/2023	Checkboxes now toggle. Some not having data appearing is a different bug to investigate.
5 Be able to add stand alone layer outside group (eg Lot events)	9	In progress	Braeden					
6 Zoom buttons should not exist when in groups or be optional	8	Complete	Michael				2/18/2023	12/19 - Nitin changed to incomplete. Not seeing change
7 Info button modal window is not styled properly	7	Complete	Aren				2/18/2023	
8 Manhattan and Castello Sections should be open by default	6	Complete	Aren				2/11/2023	
9 Lot Events layer should be checked by default	6	Complete	Michael				2/13/2023	
10 Hash UI (Zoom, coordinates, pitch, bearing) does not change	5	In progress	Aren					
11 Lot Events info panel does not change when moving slider	5	In progress	Subham	High				
12 Changing position of link buttons (hardcoding is acceptable)	4	Complete	Aren	High	Tue, Feb 18	2/19/2023	2/19/2023	Hardcoded 3D New Amsterdam button, but didn't mess with ordering of added buttons. If desired, it's possible. Just need to update DBL prima schema to have an order and implement functionality from layer ordering to the added links and render based on that order
13 Link buttons change icons to "world"	3	Complete	Aren		Thu, Feb 13	2/17/2023	2/17/2023	
14 Info layer panels do not push down when new ones are clicked	3	Complete	Subham	High				
15 When clicking more than one layer simultaneously, only one info panel shows, when all that you clicked on should.	3	Complete	Subham					
16 ?? Not sure how to add "place" icons with Info of Interest Locations	3	None						
17 Lot events need to change color (try adding manually in db first)	2		Nitin					
18 See Original Grants & Farms info window Ampersand (&) showing as &amp;	2	Complete	Aren				2/13/2023	
19 Make site lock completely identical to MENY	2	None						
20 Find out how to move map order (not necessary just to know how)	1	Complete	Braeden				2/17/2023	Map groups are parsed in-order from the DB, if order needs to be changed I've added the ability to hardcode array order, also working on adding buttons to make order fully mutable.
21 ?? For several layers info panel or both info panel and popups are not appearing	0	None						May be completed
22	4							

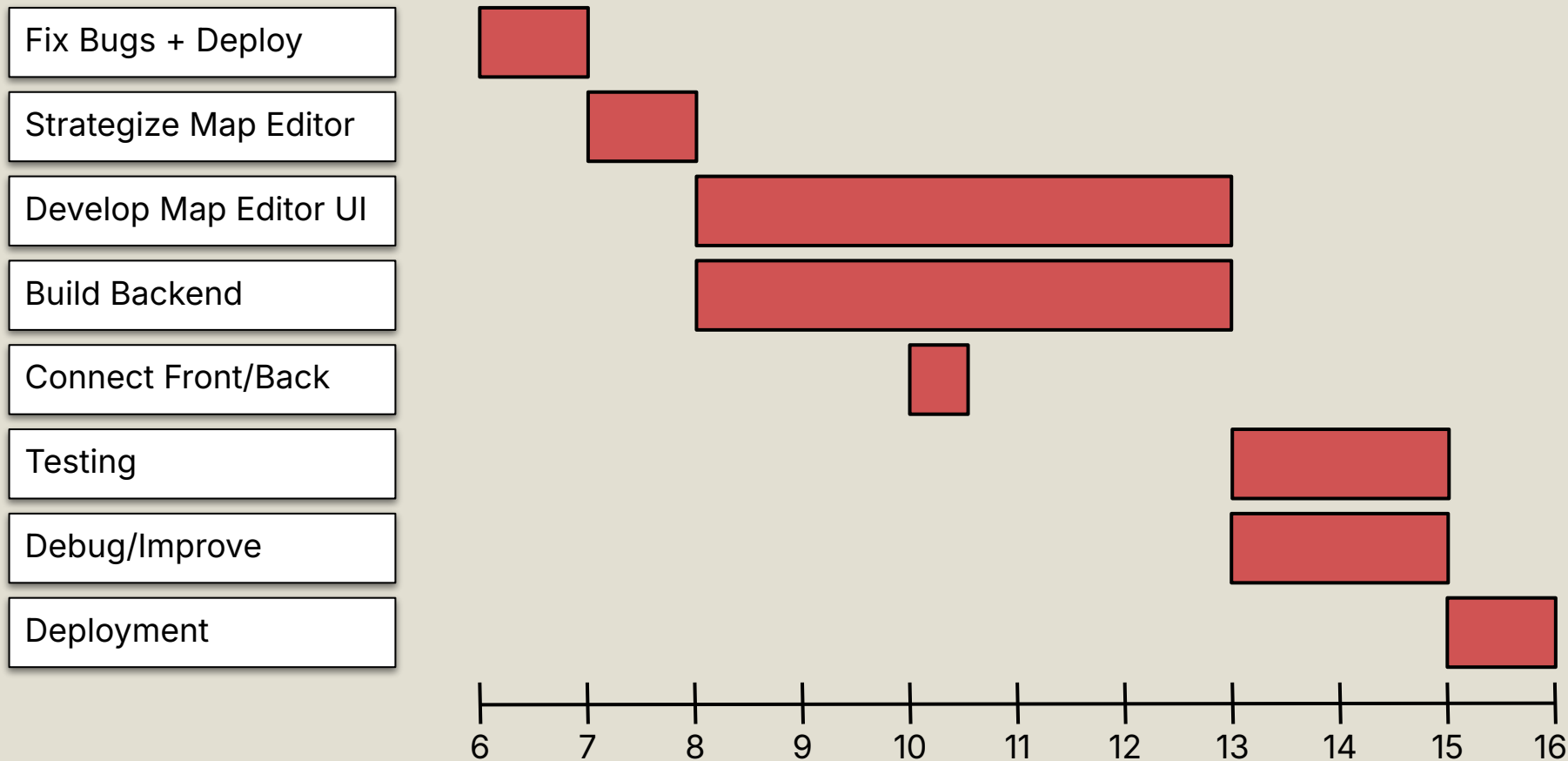
# Challenges

- Learning a new language (TypeScript)
- Lack of documentation in code
- Understanding MapBox GIS
- Discovering more bugs impedes the development timeline
- Application crashes when launched with VPN



# Remaining Work Timeline

# Timeline



**Demo !**