



Lina Baly, Jiya Manchanda,  
Angie Lam, Matthew Ray

# The Freshwater Atlas

CMS 352 - Web  
Application Development



# What is The FreshWater Atlas?



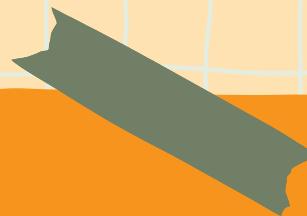
- An interactive map tool to explore and understand freshwater resources.
- A digital platform highlighting Orange County's lakes, rivers, and springs.
- Combines educational content with visual storytelling to engage users.



# Why did we choose this?



Orange County  
Freshwater  
Resources are  
vital



Personal  
Connection

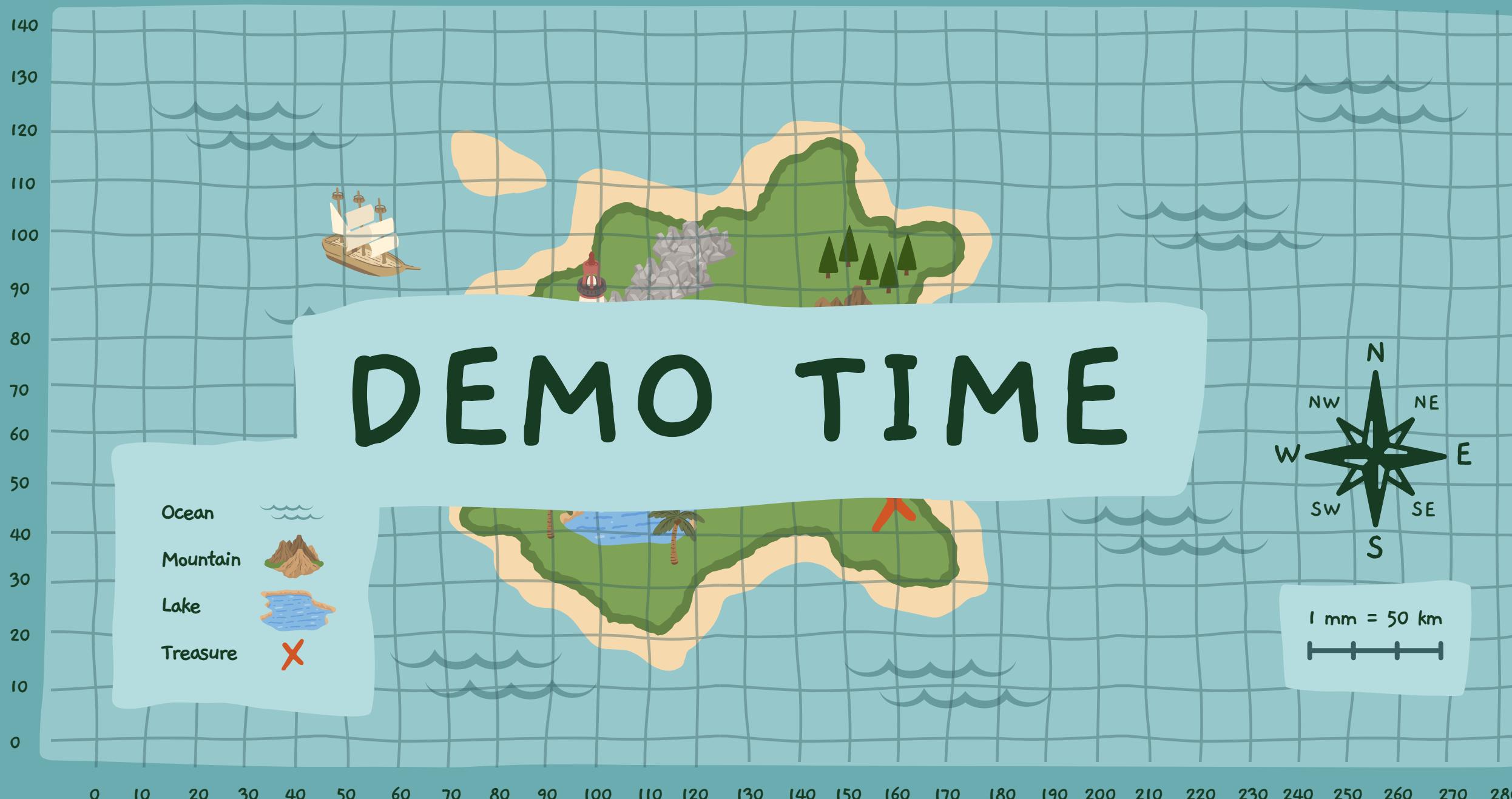


Our Passion  
for Visual  
Learning



A Call to  
Action for  
the Audience







Link to the  
site

[mracs.dev/fa](https://mracs.dev/fa)



# Tools/Frameworks to Build

## Technologies Used:

HTML, CSS, and JavaScript

Google Maps API

Fetch API

JSON (Data Storage)

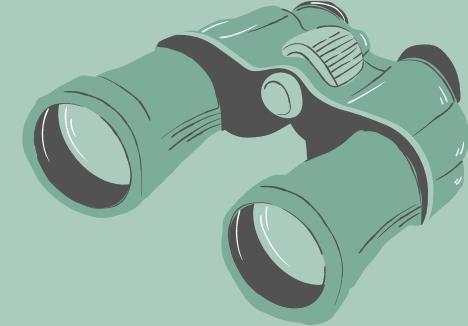
NGINX

## Reasoning:

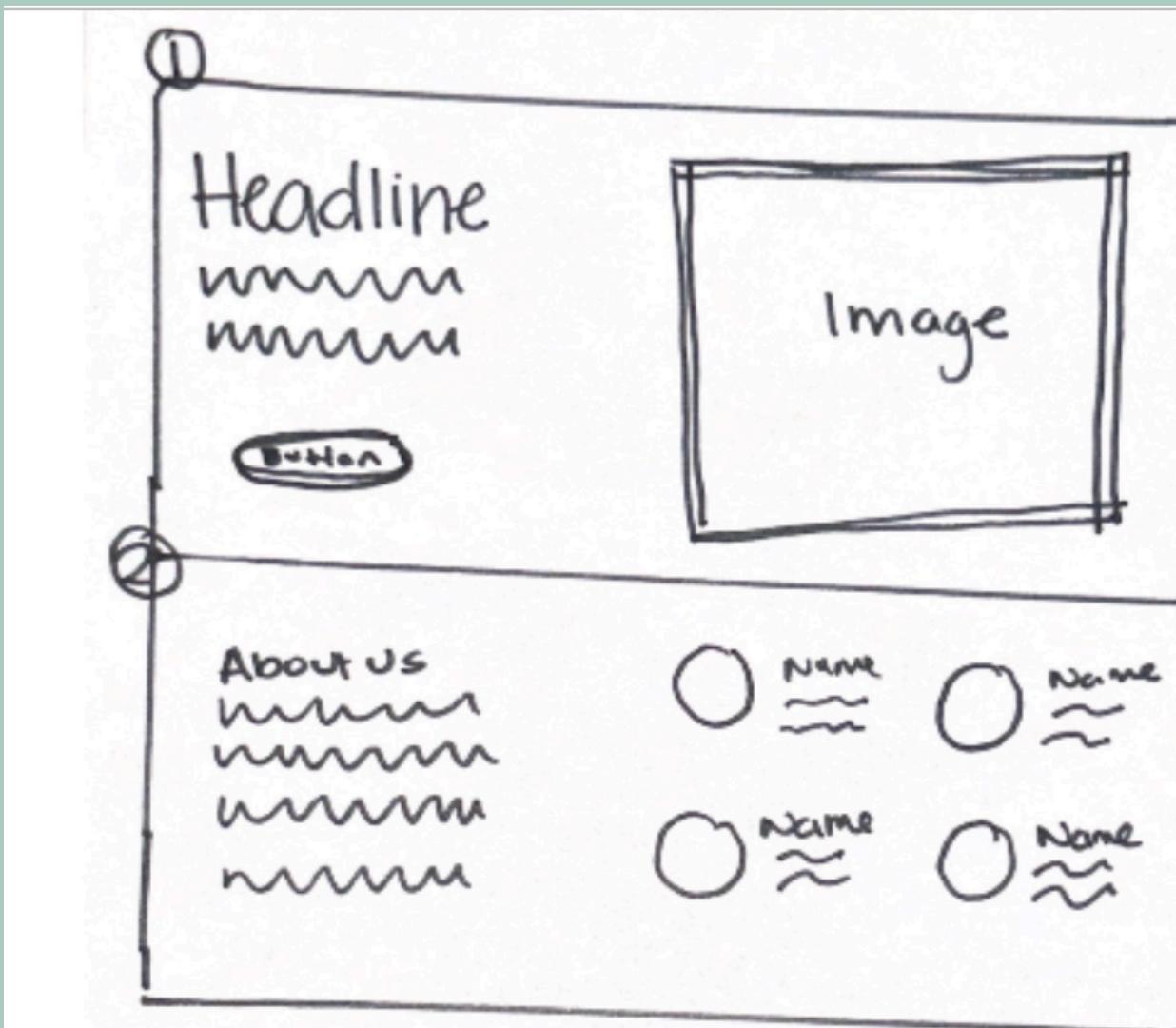
- Tools chosen for their simplicity, flexibility, and functionality.



# Layout & Structure

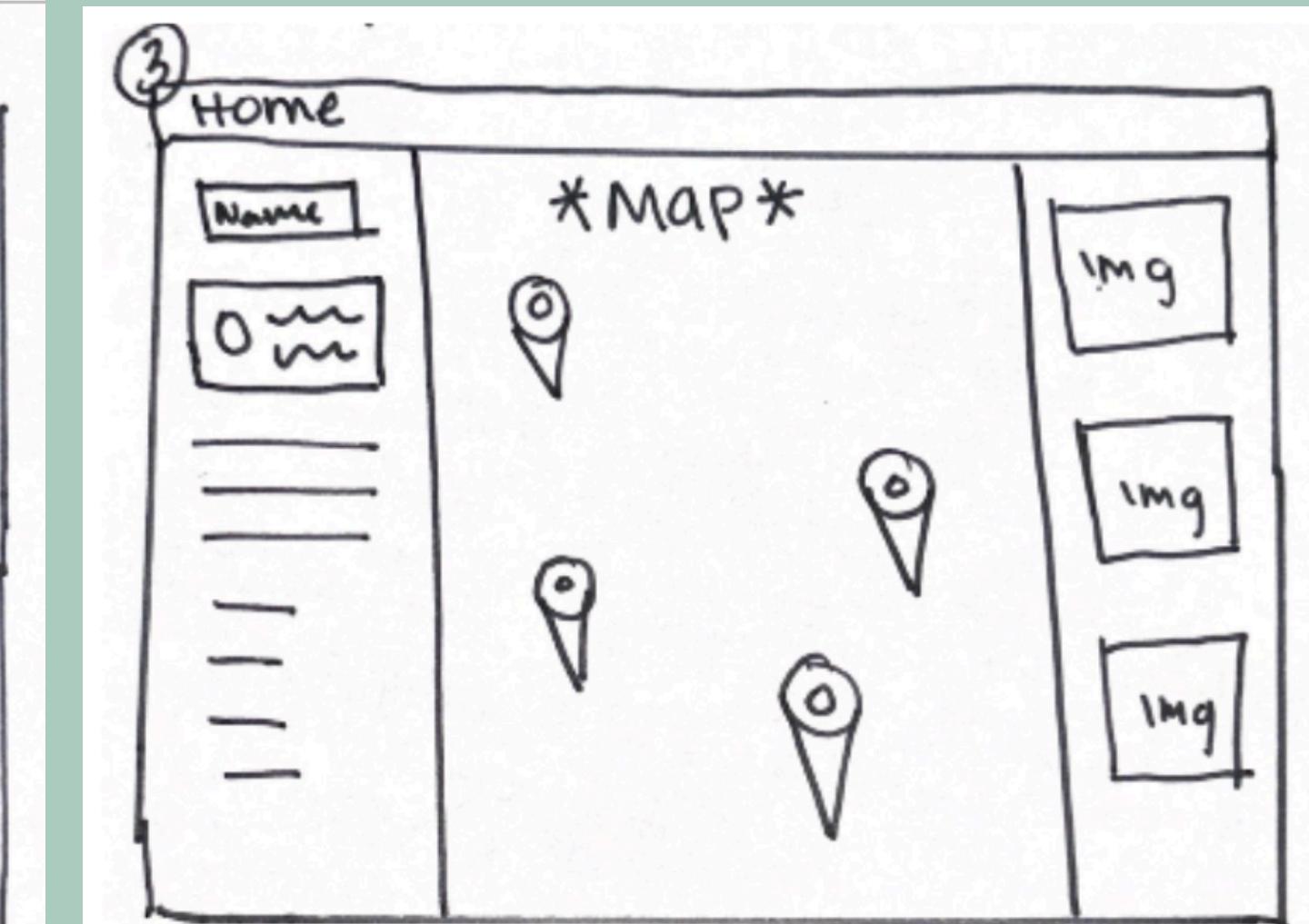


## Old Wireframes



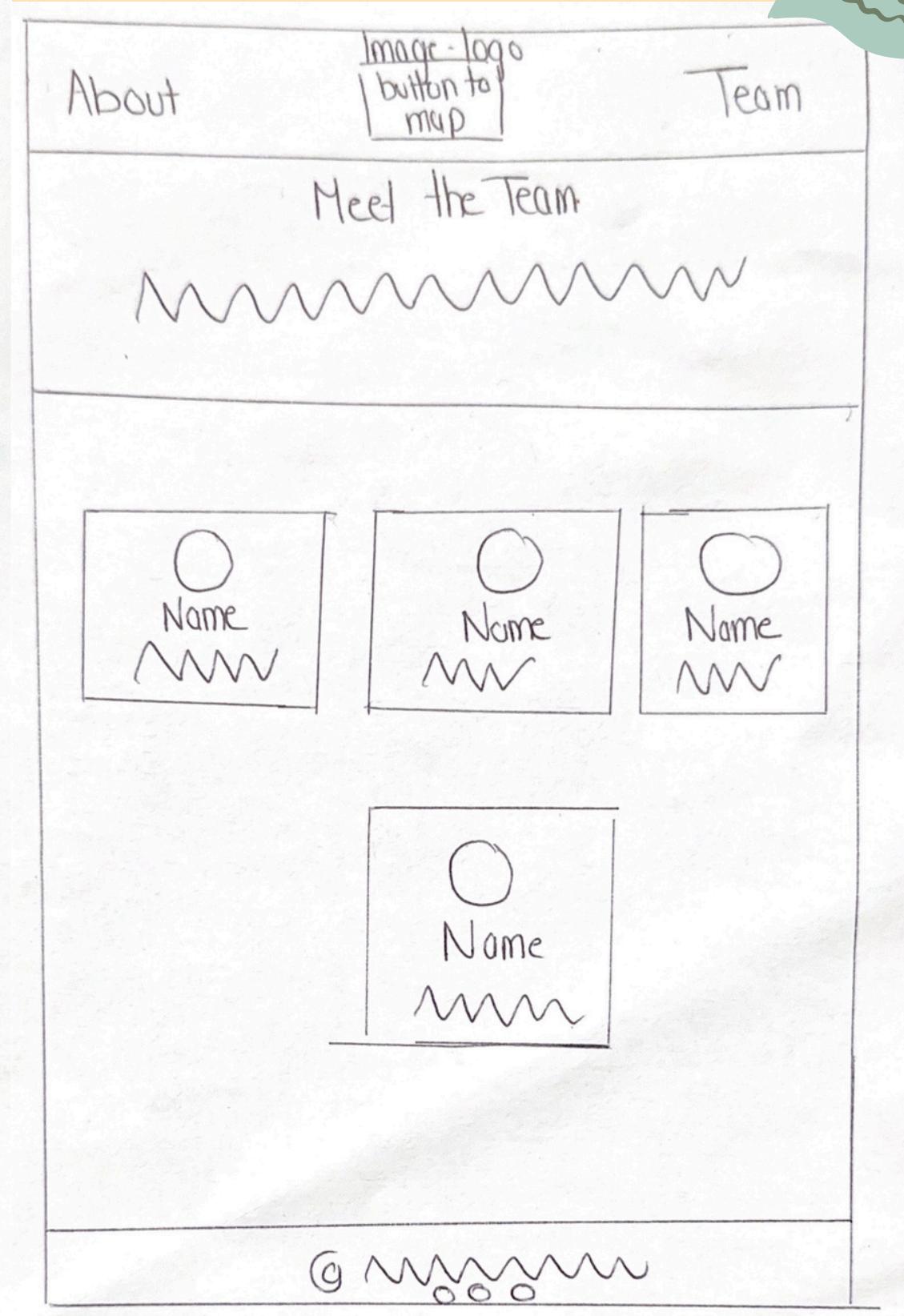
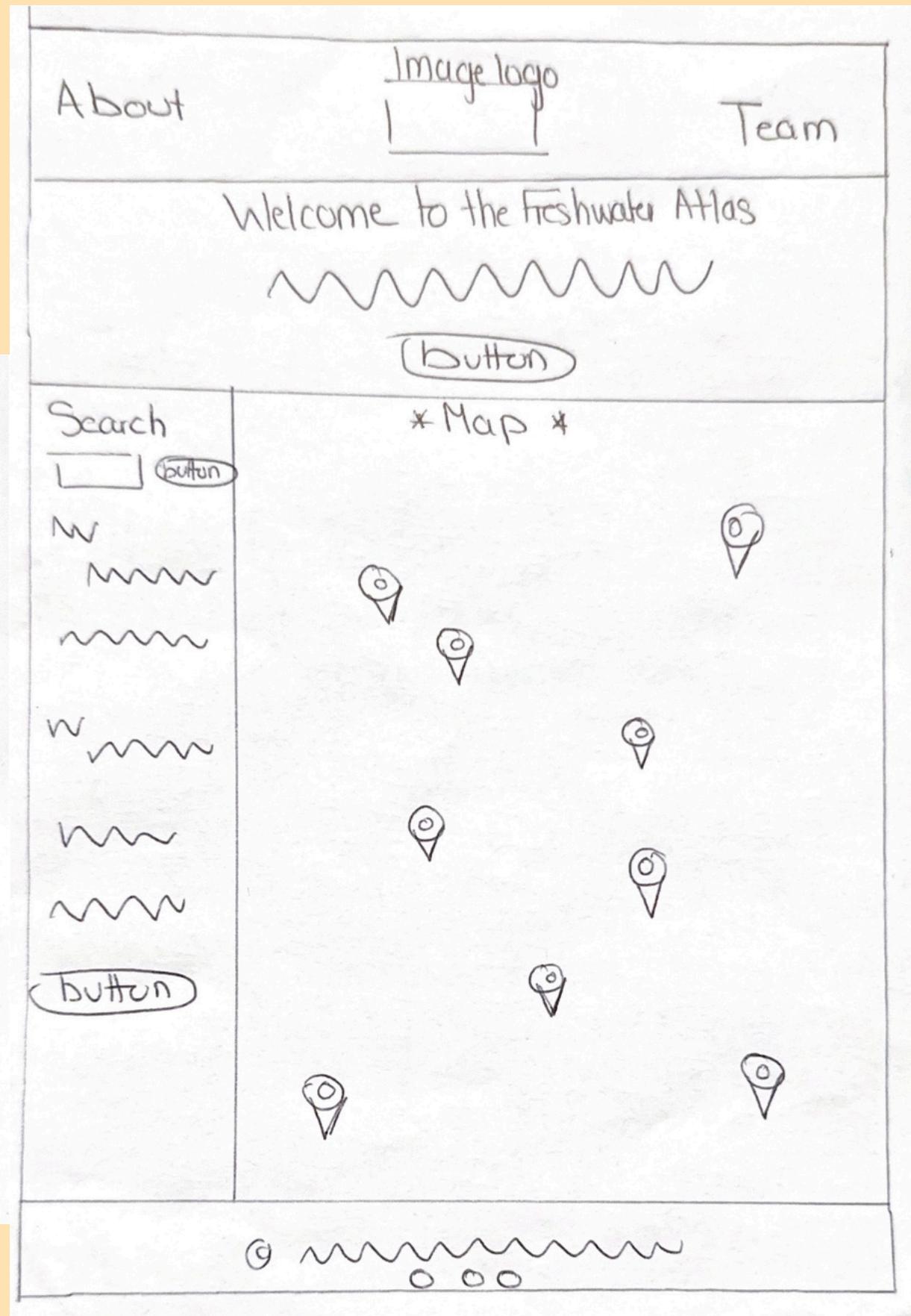
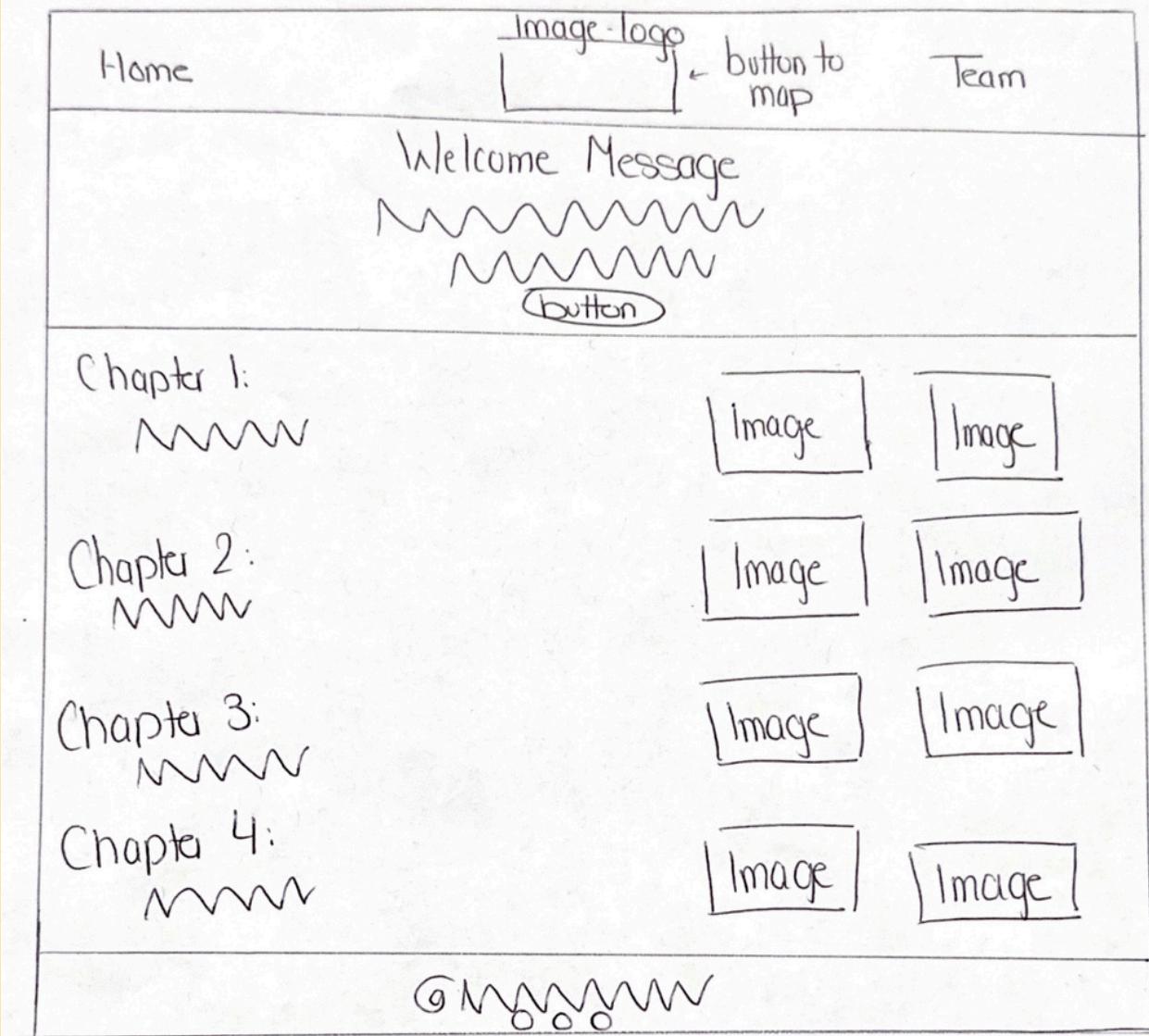
- ① - HERO
  - Button to browse map

- ② - About us
  - Testimonials

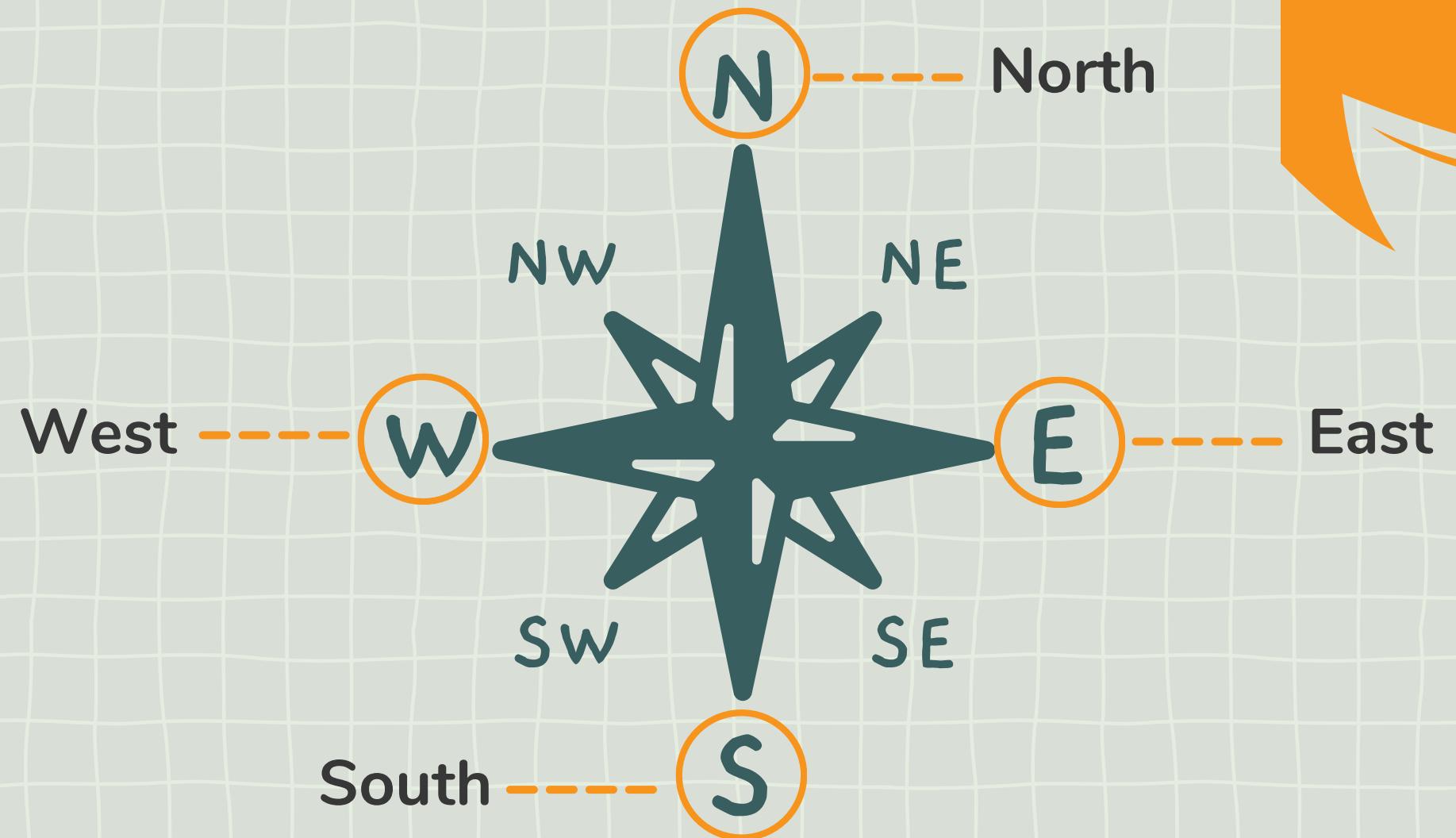


- ③ - Clickable Map
  - Shows freshwater info on left sidebar
  - Images on right sidebar

# New Wireframes



# So what was interesting?



## Innovative Aspects:

- Interactive map with real time data
- Unplanned "About Map" page

## Beyond the Classroom:

- Learned how to use the Google Maps API feature
- Learned dynamic data integration

## Team Pride:

- Implemented features that encourage exploration and learning about freshwater resources



# Reflections

Where We Started

Challenges Faced

Where We Ended

Takeaways



Thank you!

