

Biscayne Bay Visualization

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PROBLEM

Fish kills in Biscayne Bay prompted researchers to gather water quality data and use it to analyze overall health of the bay. This webpage seeks to share information regarding Biscayne Bay and visualize the collected data.

CURRENT SYSTEM

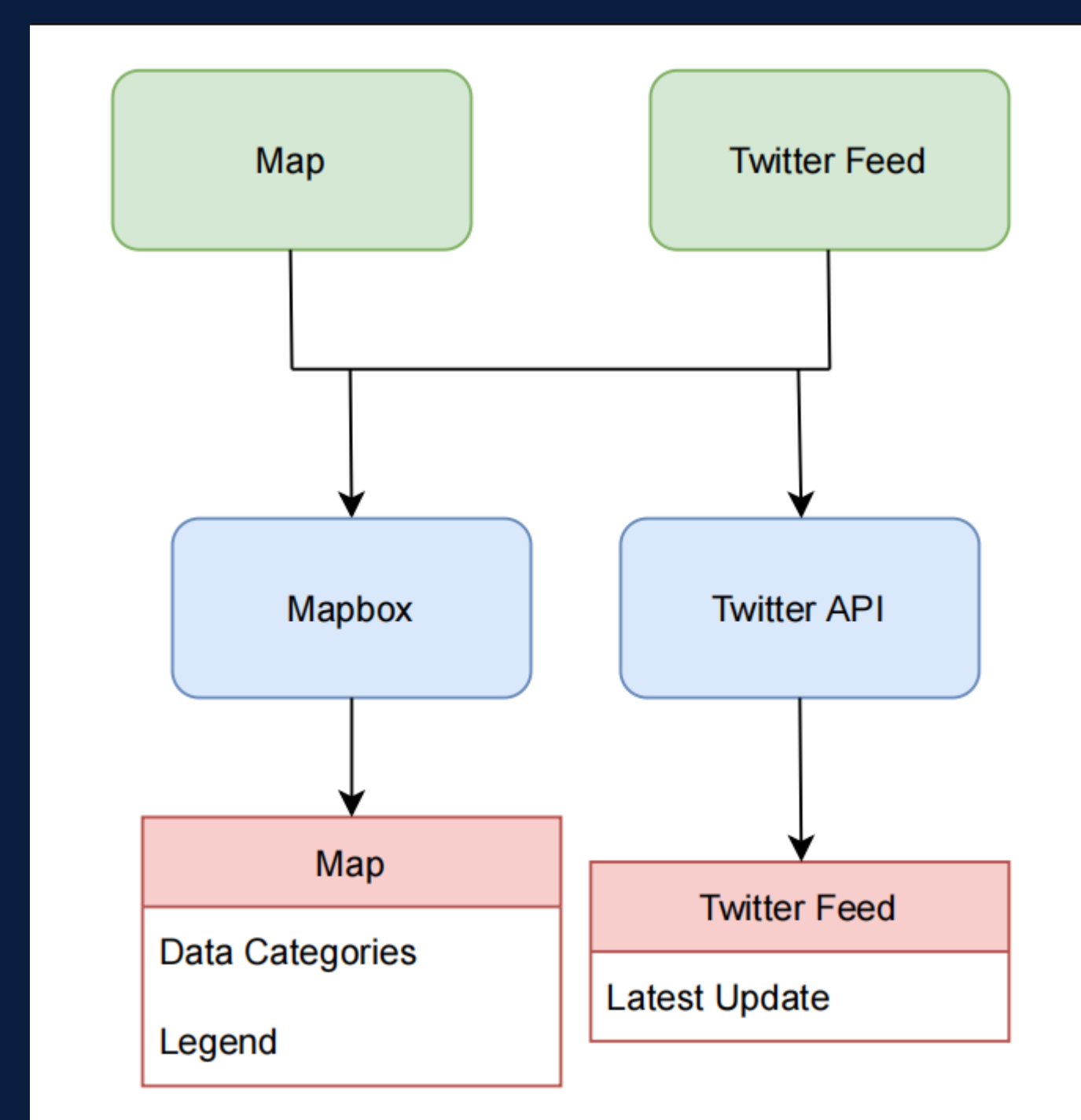
The webpage has an interactive map that visualizes the different parameters collected by researchers. It provides information on what was collected and connects users to social media for the FIU Institute of Environment

REQUIREMENTS

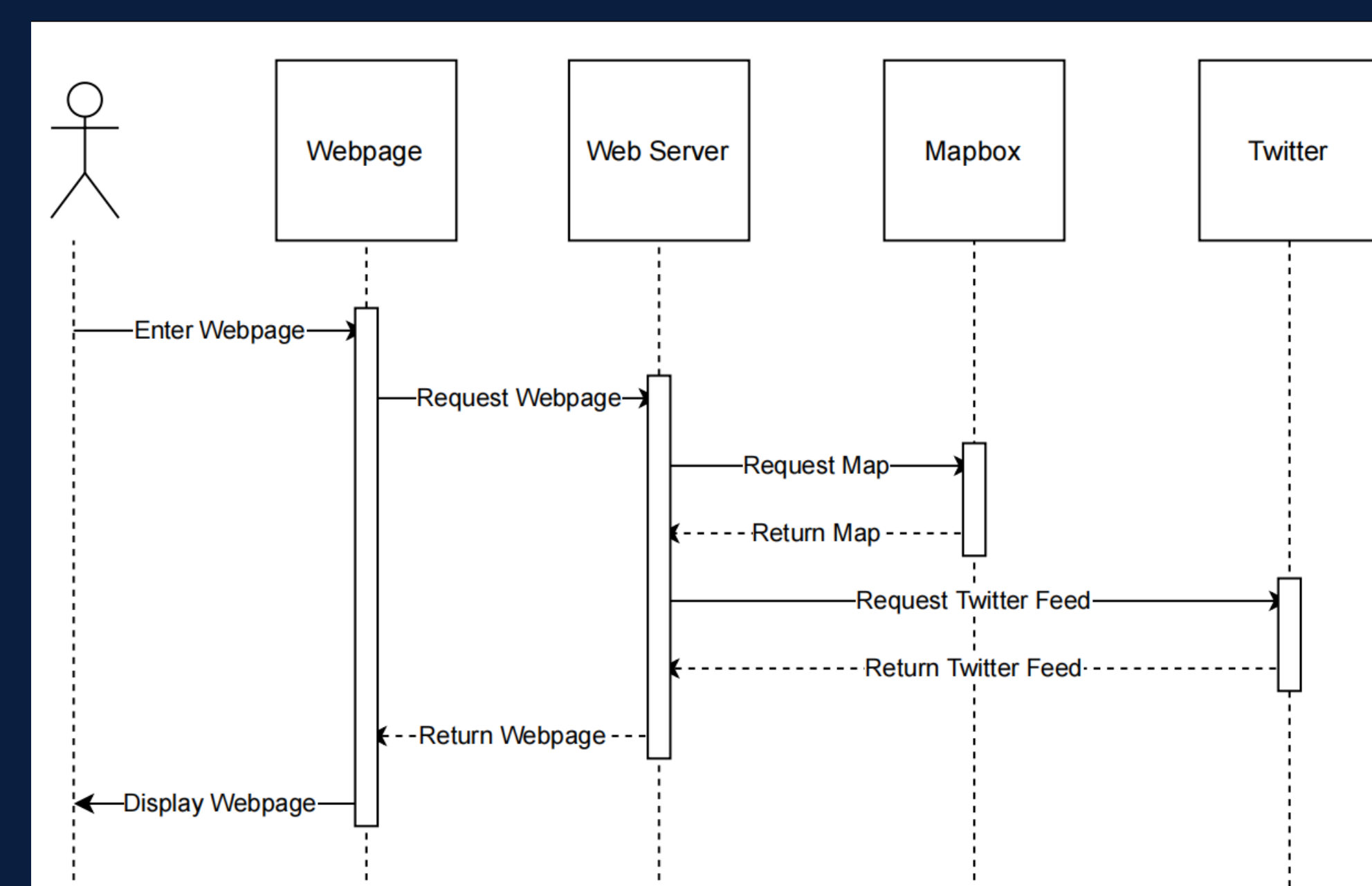
Design a webpage that informs the user about the water quality in the Biscayne Bay.

Create a visualization using Mapbox that displays the water quality data collected in Biscayne Bay.

SYSTEM DESIGN



OBJECT DESIGN

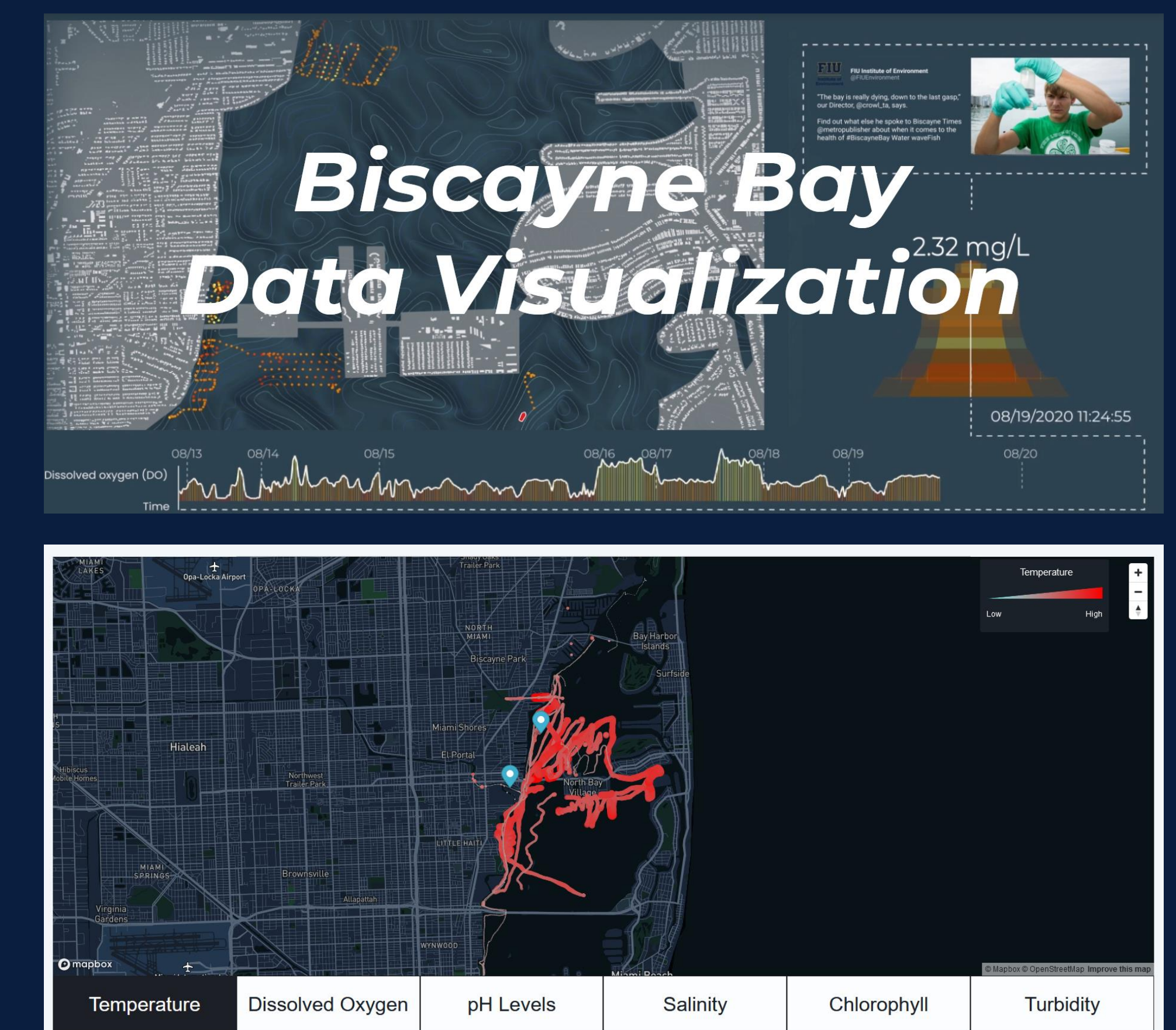


IMPLEMENTATION

The webpage is built with:



Screenshots



VERIFICATION

Manual verification was used to verify webpage functionality:

Scenario: User clicks on “Temperature” button. The temperature information is displayed on map with corresponding map legend. Status (Pass/Fail): Pass

SUMMARY

My contribution to the project involved identifying different scaling for the GEOJSON parameters in the collected data. Once the scaling for each parameter was developed, I utilized JavaScript onto the embedded map to create buttons that toggle and gradient legends. I also worked with coordinating efforts with the team and documenting our progress for reporting.

ACKNOWLEDGEMENT

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