

Biscayne Bay Visualization

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PROBLEM

Florida International University Institute of Environment is looking to redesign their webpage that displays information about the water quality in Biscayne Bay.

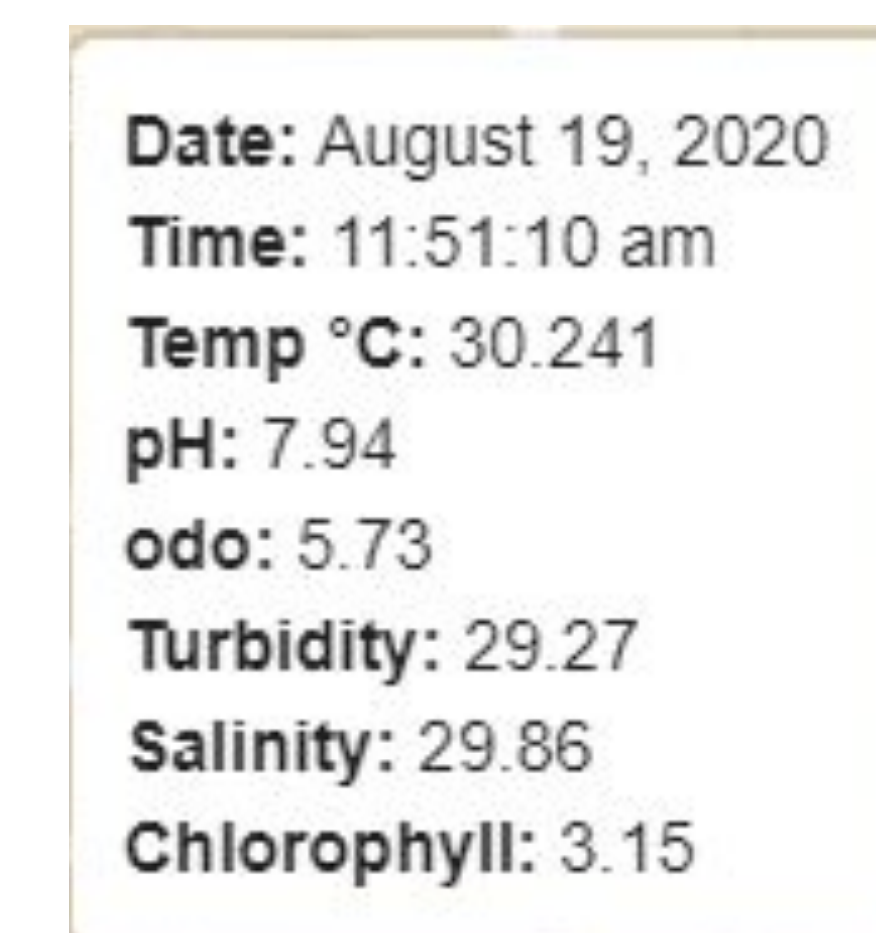
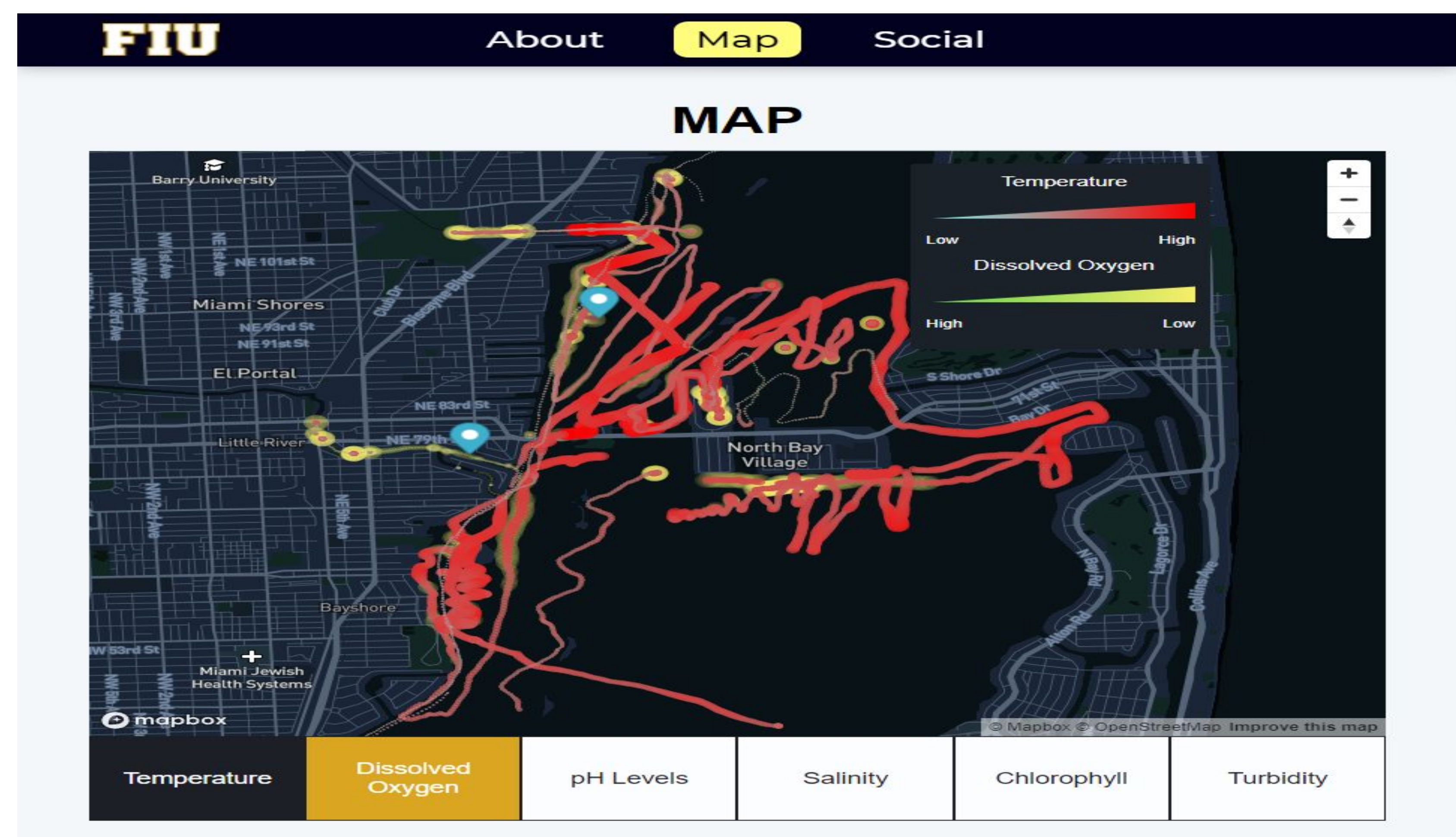
CURRENT SYSTEM

The current webpage implements Mapbox but does not have any data visualization but contains other relevant information.

REQUIREMENTS

- Visually display information of the water quality data collected from the buoys.
- Contain a map legend of the data.
- Link to different social media platforms.

SCREENSHOTS



IMPLEMENTATION

The redesigned webpage is built with HTML, JavaScript, CSS, jQuery, Mapbox, GitHub, Visual Studio, Live Server extension, GeoJSON, Google Chrome, and Mozilla Firefox.

VERIFICATION

Manual verification was used to verify webpage functionality:

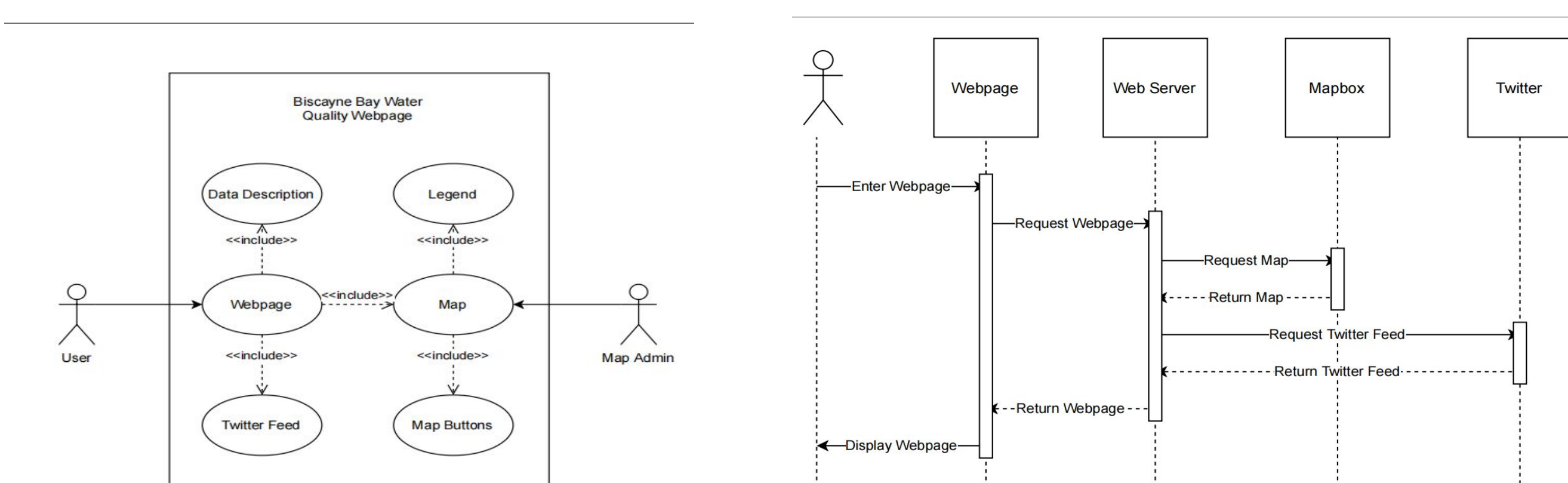
Scenario: User hover mouse on data point on map and the data info box displays information.

Status (Pass/Fail): Pass

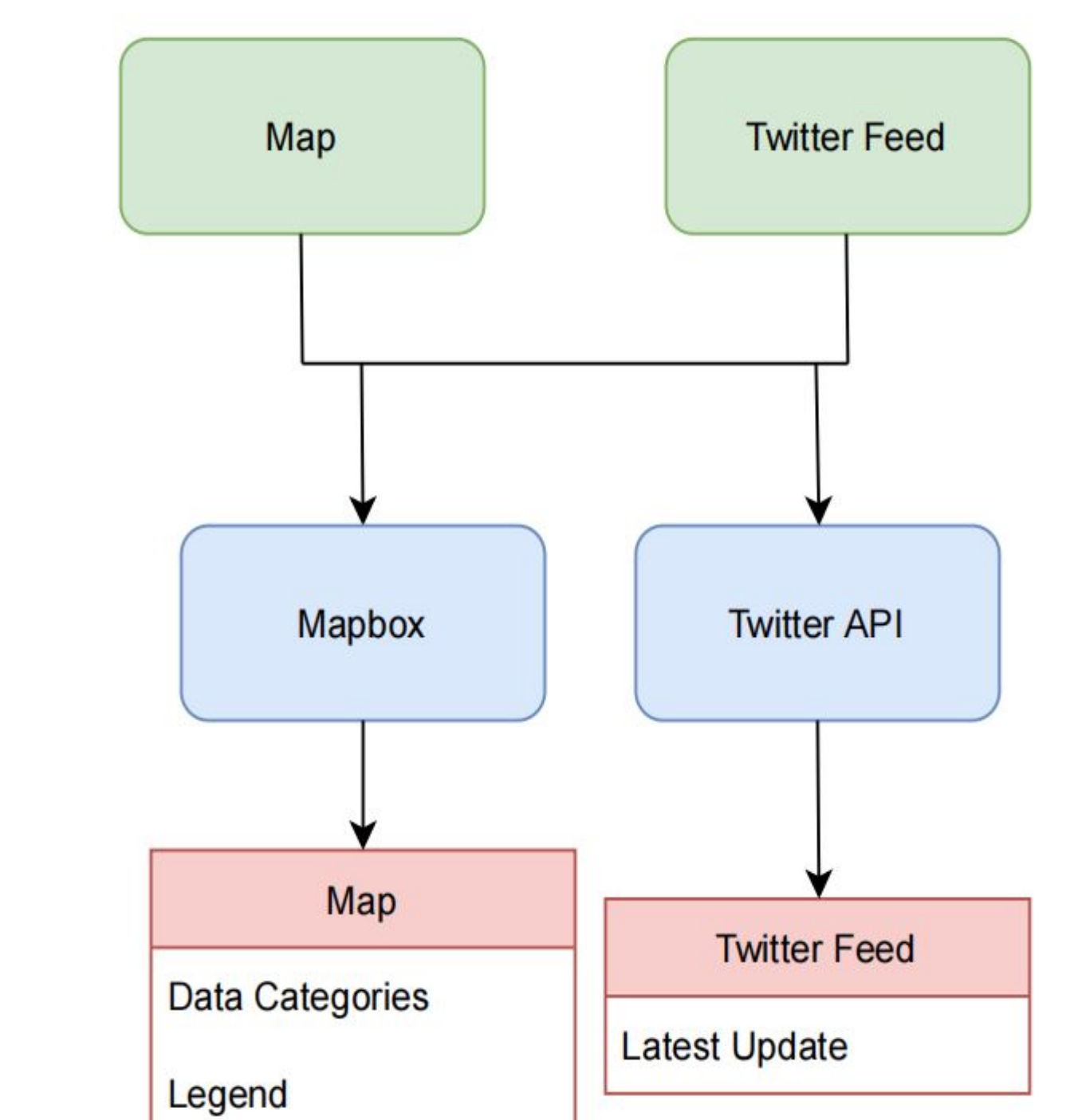
Scenario: User hover mouse off data point on map and the data info box clears information.

Status (Pass/Fail): Pass

OBJECT DESIGN



SYSTEM DESIGN



SUMMARY

The redesigned webpage contains the data visualization of the data collected from the buoy, display map legend corresponding to selected data, and link to social media.

ACKNOWLEDGEMENT

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