This prototype is aim to explore the feasibility of some requirement for CPIS Backend, CPIS Frontend of XTech project.

The expected outcome of this prototype should be able to verify whether using C#, HTML5, JavaScript and integrate with MapBox can satisfy the following requirement.

CPIS Backend (Maintain Event)

1. Load and Display existing Map (Mapbox map + collected data)

Acceptance Criteria: click a button to select a file that contains customized map info, the map shall be displayed.

1. Edit and save Map (Mapbox map + collected data)

Acceptance Criteria:

* 1. Add, modify, delete route
  2. Add, modify, delete legend
  3. Add, modify, delete overlay
  4. Pin, unpin markers
  5. Click a button to send the file with map info to Web Server

CPIS Frontend (Monitor Event)

1. Overlay select and display

Acceptance Criteria:

* 1. Receive overlay data from server
  2. Show different overlays and allow selection to change selected overlay
  3. On selection, only selected overlay should be displayed.

1. Retrieve data from server to achieve real-time monitoring

Acceptance Criteria: The server should be able to keep pushing data to browser with a certain interval. After receiving the data, the browser should display it immediately.

1. Real-time User Location tracking

Acceptance Criteria: Mobile client send location data to server. Then the server transfer to Web client and the map on browser should reflect its location change.

1. Click the location of User (Web client) on map, his information shall be displayed

Acceptance Criteria: Specified user’s id should be printed on console.

1. Highlight Emergence request, blink

Acceptance Criteria: Click a button, specified user’s location point should begin blinking. Click another button to remove the blink.