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Web Mapping

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Lab – 5

**Introduction:**

Instagram is an easiest way to show picture of an area using leaflet with map. In this exercise I use Dhaka University area in Bangladesh. It was established on 1921. The pictures that shows in this Instagram lab project are around the Dhaka University area. It shows some personal as well as historical pictures. This is also a historical place where on 1952 students had protested to make Bangle language as a national language. In this language movement a number of students lost their lives by open police fire by the Pakistani government (Bangladesh was not an independent country on that period, it was a part of Pakistan called East Pakistan). Some of the pictures has a little description with it that explain what the pictures about. Making an Instagram map is a user friendly way to show some pictures about an area including a detail area map. It helps to see the location as well as the picture at a time. The main purpose of this Instagram map making is to display a map and pictures including some necessary information about the pictures and videos that are associated with it and the user can easily access to it, and see the pictures for that area.

**Method:**

To create a map including instagram pictures, I use some of the important steps to make it work. As I use the Dhaka university area for my project, so, I need the Dhaka university coordinate that it can locate the place exactly. I use the google map to find the coordinate point for it. Some of the steps in my HTML script, I took from my previous lab like hosted version of leaflet. The latest stable Leaflet release is hosted on a CDN — to start using it straight away, I used it at the top place of my HTML code and this is the head of my code. I used them as given below:

<link rel="stylesheet" href="http://cdn.leafletjs.com/leaflet-0.7.3/leaflet.css"/>

<script src="http://cdn.leafletjs.com/leaflet-0.7.3/leaflet.js"></script>

In between these two links I have used the leaflet instagram extension to include with the leaflet instagram photo and videos with the map. Then I start constructing body of the script. At the beginning of it, I have set the style of the templet of the web site how I want to show up when someone use the link. I have set as gray background, white heading and green colored short description. After have setting the style of the heading and background, I have set what would be the heading and the size of the map. To display the instagram images on a leaflet map, I need to download the “reqwest” library and store it in the same folder as my website HTML file. Then I have embeded it in my HTML, in the way I linked to the Leaflet library. I have set my reqwest and Leaflet.Instagram libraries, in the body of my script as showing below:

<script src="http://gus8068spr16.github.io/reqwest.min.js"></script>

<script src="http://gus8068spr16.github.io/Leaflet.Instagram/dist/Leaflet.Instagram.js"></script>

Then I have set the view using the Dhaka University coordinate point, and use the leaflet layer as the openstreet map. To use the Leaflet.Instagram library, we need to have our own Instagram access token, but as it was not working, so I use the provide access token to make it work. Then at the endpoint I have added the api.instagram.com with the access token because all endpoints are only accessible via https and are located at api.instagram.com.

Result:

In the two links that I have used at the head of the HTML script, there have four things like “leaflet.js”, “leaflet-src.js”, “leaflet.css” and “images”. “leaflet.js” is the minified Leaflet JavaScript code, and “leaflet-src.js” is the readable, unminified Leaflet JavaScript, which is sometimes helpful for restoring. “leaflet.css” is the stylesheet for Leaflet, and “images” is a folder that contains images referenced by leaflet.css. It must be in the same directory as leaflet.css. The style portion of the script helps to have set the style and height and width of the map in the webpage. It also show the heading that I have set in the style and heading place. The leaflet map use the coordinate to show the place that is associated with coordinate point. When someone use the link can see the openstreet map with the some pictures that are available in the api.instagram. The map that I have used shows every detail of the area including the street name and the pictures. If you click on the picture it will open up and with some text with the picture.

Conclusion:

This map shows one of the most important place in Dhaka, the capital of Bangladesh. Some of the pictures that are popup in the map image are very personal, but some of them are keeping the history of the institution and shows some recent view of it. Instagram map is a way to make a user friendly map view that shows the detail map of an area including some pictures or videos that helps the user to get a little idea about the area. It also have a zoom in and zoom out tab that can be used to change the map view. It has a limitation that I faced when try to work on it. I tried to obtain my own access token using the appropriate website, but unfortunately I was unable to acquire that. So, I used the access token that was provided beforehand. Instead of this, this way of making a map view is a very useful way to show an area and pictures together.