**Project 2**

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We talked about UMN Parking App with Prof. Shekhar, and we found our biggest challenge is the data source. How could we motivate users to provide their location and information about the parking lots? This will make the application useless if no one willing to provide data. Prof. Shekhar encouraged us to think about something more related to our course and indicated doing some research on the basic concepts about geolocation will be much more fit in our project.

Since our interests are about web developments, we would like to change our project to Geolocation application in HTML5. Teacher assistant Michael Evans shared us an idea about Limited access to the websites with specified geolocation in order to improve the internet security. We starts to read a paper “Localizing the Internet: Implications of and Challenges in Geo-locating Everything Digital” wrote by Michael R. Evans and Chintan Patel. In the paper, it mainly introduced the idea of how a geo-coded Internet will increase the security of Internet and the current challenges threat our Internet. The paper first introduced three benefits which geo-coding Internet will bring to us. The first benefit is geo-coded Internet will facilitate local businesses’ prosperity. The second, geo-coded Internet will improve the network security. The last, geo-coded Internet will build up civility among people. Then, the major challenges are listed in order to realize a geo-coded Internet. This paper only introduced the basic concept about geo-coded Internet and the benefits the geo-coded Internet will bring to the cyber world. However, nothing implementation related details have been talk about. Also, some points made by the authors are not convincing due to not talk about the details, such as how geo-coded Internet could improve privacy and security when some part of Internet traffic was routed through China. When talked about building civility through geo-coded Internet, my biggest concern is what makes civilized communication sometimes difficult to achieve in cyber world? How can geo-coded Internet improve civility among people? The answer of those questions cannot be found in this paper, and the explanation for geo-coded Internet will build civility looks too short and simple in this paper. However, the advantages of geo-coded Internet are obvious. To realize geo-coded Internet is a complicated work and cannot be done in a short time.

In our project, we are not able to build a geo-coded Internet. We would like to implement a limited accessed website based on specified geolocation, which is a smaller concept than geo-coded Internet. This technique can be implemented in some top classified organizations which require the user’s location in order to reduce hacker’s attacks. We are going to use geolocation technique build-in HTML5 to determine users’ location as the geolocation is such an incredible functionality to the browser. “The Geolocation API defines a high-level interface to location information associated only with the device hosting the implementation, such as latitude and longitude. The API itself is agnostic of the underlying location information sources”. We can write geolocation application for the web directly in the browser.

Reference

Localizing the Internet: Implications of and Challenges in Geo-locating Everything Digital, Michael R. Evans, Chintan Patel

Geolocation API Specification, <http://dev.w3.org/geo/api/spec-source.html>