CCPS530 Project: Choose any one of the four options.

Due Date: **On D2L**

Submit just the name of project you choose by deadline into: D2L> Assignments> Project Selection
After your submission, the deadline for delivery of the project is on D2L> Assignments> Project Submission

🎬 Option 1: **IP Geolocation**

Create a single page web site that performs a reverse lookup for a location from an IP address. IpFind (https://ipfind.co/) provides a service (a web service) that provides an ip geolocation service. IpFind has a developer account that only requires your registration.

Once a location has been extracted using IpFind it should be displayed on a map. The library Leaflet (http://leafletjs.com/) provides the ability to display interactive friendly maps. The mapping service used is OpenStreetMap (www.openstreetmap.org). This is a free, open source mapping service.

This web site should support a certain level of security. In order to use this site there should be login to access this site.

🎬 Option 2: **Weather Service**

Create a single page web site that displays weather related information for the following cities: Toronto Manhattan, Rio de Janeiro, Monte Video, Paris, Berlin, Rome, Cairo, Seoul, Shanghai, and Tokyo. The weather information may be retrieved from OpenWeatherMap (http://openweathermap.org). A free account may be created for the purpose of this project. There may be limits on the number of calls on OpenWeatherMap. Hence an ajax call may be used to load each city. There may be a delay of 10 or more seconds between subsequent ajax calls for the next city.

Temperature information may be displayed in a tabular form or on a map. The library Leaflet (http://leafletjs.com/) provides the ability to display interactive friendly maps. The mapping service used is OpenStreetMap (www.openstreetmap.org). This is a free, open source mapping service.

This web site should support a certain level of security. In order to use this site there should be login to access this site.

🎬 Option 3: **Quote of the Day**

Create a web service that displays quote of the day based on the current day submitted by a user. For simplicity quotes of the day may be stored in an array and your service may retrieved based on the date submitted. To simplify the project you may associate a quote with a specific week. This means that 52 quotes will be used and each quote will be associated with a week of the calendar year. This web site should support a certain level of security. In order to use this API there should be login to access this site, and the website should generate an API KEY with certain amount of usage per user.
This web site should support a certain level of security. In order to use this site there should be login to access this site.

🎬 Option 4: **Propose a project of your own interest**

If neither option 1 nor option 2 is appealing than you may propose your own project. A project proposal will require you to create a one page write-up describing your project, scope and APIs used. This will be submitted by email to your course Instructor in order to be approved. Your website should support a certain level of security. In order to use this site there should be login to access this site.