

# CMPS 350 Web - Spring 2021

## Lab 7 – Client-side JavaScript

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### Objective

The objective of this lab is to practice implementing Web UI and calling Web API using Client-side JavaScript. Particularly DOM manipulation, events handling, using Fetch API and localStorage API.

In this Lab you will implement a todo web app. Then you will develop Universities Explorer app to explore the world universities and visit their websites.

### 1. To Do App

Design and develop a ToDo web app using todo using HTML, CSS, and JavaScript. Enhance the app to store and retrieve the todo tasks using localStorage.



### 2. University Explorer

- Sync cmps350-lab repo to get the Lab files.
  - Copy **Lab7-ClientJS** folder from cmps350-lab repo to your repository.
  - Develop a web page that allows users to search universities in any country.
    - On page load fill the countries [Data List](#) using <https://restcountries.eu/rest/v2/all> Web API to enable the user to search and select a country.
    - When a country is selected, load all the university names into the universities dropdown. The universities of the selected country should be fetched from <http://universities.hipolabs.com/search?country=qatar>
- Store the 1<sup>st</sup> university webpage as a custom data-url attribute with every option in the dropdown.

- When the user selects a university open the university url in separate browser tab.

