CSU4400 Internet Applications – 2019/2020

Assignment 1 – Reactive Internet Application

Prof. Donal O'Mahony

The objective of this first assignment is to develop a simple Internet Application which demonstrates the following:

- A reactive client running in an Internet Browser using Vue.Js – demonstrating some simple knowledge of the V- directives and mustache syntax and interacting with a Server-Side application using at least one Web API primitive
- A Server-side application which exposes at least one API primitive and consumes the services of a 3rd party Web API – you won't be able to do this from the client side due to 'same-origin' restrictions

You are asked to produce an application that inputs the city that someone is planning to go to. Your server-side should use the openweathermap API to get the weather forecast for that city for the next 5 days. You should then display for the user some summary information including:

- Packing: if there is rain anytime over the next 5-days indicate that the user should bring an umbrella
- Indicate whether the user should pack for Cold (temp range -10..+10), Warm (+10-+20) or Hot (20+)
- Give a summary table for the next 5 days showing: Temperature, Wind Speed and Rainfall level

Notes:

- You are asked to submit one single file of server code – Ideally this should be no more than 3-4 pages long and one Client-Side HTML file containing the Vue.js code – again this should be no more than 3-4 pages long
- We will ignore the visual appearance of the application. Feel free to develop a nice looking version for your own use, but the submitted version should not be cluttered with styling
- You can use my access token (given in lecture notes) to invoke primitives on openweathermap.org

Deadline: You should submit a single HTML client file and a single Node.Js server file using Blackboard by Wednesday, October 16th (Week 6) @ 10pm.