**CS3320.001 - INTERNET SOFTWARE DEVELOPMENT**

**Fall 2018 – Assignment 3**

**Due Date: October 19, 2018**

**Description:**

A partner of your company has requested to build a software application that will predict the rate of the fuel based on the following criteria:

* Location
* Competitors rate
* Client rate history
* Client rate negotiation history
* Gallons requested
* Company profit margin (%)
* Seasonal rate fluctuation (%)

**Architecture:**

Persistence

Backend

Web

User Interface

Insert / update

Controller

Database

request

retreive

response

Pricing Module

Service

**Deliverables:**

* In this assignment you will connect backend with frontend.
* Display Client information using the values from the model.
* Use JavaScript to validate the input values in the Quote Form. Make sure when user submits the values they are correct type. i.e.
  + numbers with two decimal places
  + date in MM/DD/YYYY format.
    - Suggestion: use date picker provided by your UI framework or HTML5.
  + Names with no numbers or special characters.
  + Email in correct format.
  + All Fields are Required.
  + If you are using a Framework like node or angular it comes with validator framework. Looks for some examples.
  + Submit this data to backend code that will validate, process this data and insert to DB in next assignment.
  + Display output in console for now showing backend is functional.
* Display QuoteHistory data using the list.
  + Create JSON sample data to display. We will get this data from DB in next assignment.
  + Suggestion: Supply this JSON data to the module that will display the list to UI. Later you can replace JSON data with DB data.

IMPORTANT: Submit just the code. Create a word/pdf doc that shows your code and sample output. These could be screenshots.

**Tools & Technologies:**

* You are free to use any tools and technologies.

**Submission:**

Submit your files to TRACS. If there are any instructions on how to use your application, then please provide a readme file.

**Notes:**

You and your partner should equally work on the assignment.