**CS3320.001 - INTERNET SOFTWARE DEVELOPMENT**

**Fall 2018 – Assignment 1**

**Due Date: September 21, 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:**

* Front End (User Interface)
  + Create a front end for the application. Use the layout defined here:

<https://www.w3schools.com/html/html_layout.asp>

* + Choose Header
  + Choose Footer
  + Add 3 links in the Side Menu
    - Client Information
    - Request a Quote
    - Quote History
  + When you click on “Client Information”, contents section should show these parameters:
    - Name:
    - Address:
    - Phone:
    - Email:
  + When you click on “Request a Quote”, contents section should show a Form with these parameters:
    - Gallons Requested:
    - Delivery Date:
    - Delivery Location:
    - Delivery Contact Person Name:
    - Delivery Contact Person Phone:
    - Delivery Contact Person Email:
    - Suggested Price per Gallon:
    - Total Amount Due:
  + When you click on “Quote History”, contents section should show history table with these parameters:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item # | Request  Date | Delivery Date | Gallons | Rate | Total Price |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**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.