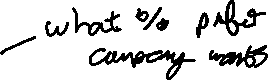
**CS3320.001 - INTERNET SOFTWARE DEVELOPMENT**

**Fall 2018 - Term Project**

**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

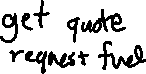
response

Pricing Module

Service

**Deliverables:**

* Semester: Complete web application
* Assignment 1: Front End (User Interface)
  + Create a front end for the application
  + Landing page



* + Form



* Assignment 2: Backend processing
  + Receive data from UI
  + Hold data temporarily in model (bean) class
* Assignment 3: Backend processing
  + Validate data (Frontend and backend)
  + Process data
* Assignment 4:
  + Retrieve Client data from database and display on UI
  + Persist data to database
* Complete Project:
  + Create pricing module to predict the rate
  + Demo

**Tools & Technologies:**

* You are free to use any tools and technologies.

**NOTE: More details will be provided in individual assignments.**