**Objectives:**

In this project, you will be creating a Multi-Tenant, Cloud Scale, Multi-AZ SaaS App in your Amazon Web Services.

**Operations Requirements:**

* Your solution must be contained within a VPC in Oregon (**US-WEST-2**)
* You must have at least two AZs (with a Max of 3 AZs) in your solution
* You must use Amazon Elastic Load Balancer (Classic or App Gateway)
* You must be able to provide evidence via demonstration of your Elastic Scale design.
* You must pair up with at least two students from CMPE 202
* Each student is a "tenant" and must be isolated within their own AMI/Instance(s).
* Your solution must support Data Multi-Tenancy by managing either Extension Columns or Tables in a single Relational Database using Amazon RDS.

**Application Requirements:**

* Students from CMPE 202 will be working on a UML Parser App (Java App/JAR) that takes Java Source Code and generates a UML Diagram Output (Image / JPG, PNG, SVG).
* Your job for this project is to build a Single Page App for the Java Source Code to be submitted and graded.
* Provide a "Grader" login that will then "Pin" all interactions with the App to the respective Tenant Instances.  You can use User ID to identify which Tenant.
* Work with each of the CMPE 202 students to package their solutions into AMIs for Cloud Deployment.
* For Grading Page, you must allow Tenant Specific customization such that grading Attributes (Scale, Points, Complete/Not Complete, and Comments) can be customized.

**Language, Frameworks & Tools:**

* This Project is focused on your Design and Use of AWS for Cloud Scale Deployment.
* As such, the Programming Language / Frameworks you use is up to your choosing.
* Examples Include:
  + PHP
  + Java/JSP
  + Scala/Play
  + Grails/GSP
  + Ruby on Rails
  + Node.js
  + Go
  + Python/Django