**CSD 3103**

**Project**

**Students May Work in groups of Maximum Two**

A car-dealership decides to develop a web-service for the clients to inquire about the cars available in stock. A car is represented by the following pieces of information:

* Make, Model, Year, Color, KMs, VIN#, Price, Images (Up To Four)

Your task is to provide the following:

* RestFul web-service
* Front-End development:
  + Design a user interface to display the list of vehicles
  + Use JavaScript and develop a filter (by price, or KMs) to display the vehicles.
  + Display 16 vehicles in one webpage (4 by 4). Under each vehicle, display abstract information and use only one image to represent a car.
  + Once selected, display full information in a new page.
* Back-End development;
  + Use MongoDB to store the information of all vehicles.
  + Use RestFul requests/web-service using Node
  + Develop a web-service to handle the requests
  + Provide .WSDL and schema file
* The SEI (Service Endpoint Interface) for Web-Service functionalities is left up to you.

**Presentation**

You will need to present your project at specified date that will be posted on Moodle. Your presentation should contain the following:

* 1. Your design: describe the design, architecture, classes, database, etc.

* 1. Detailed explanation of all components of the web-service, back-end and front-end along with visual illustration (figure) of each.
  2. Each team has 15 minutes to present. **Write down the name of all team members at the beginning of your presentation.**
  3. Contribution of each team member has to be specified during presentation.

**Report.**

Finally, you are requested to provide a report about your final project that describes the details about the project. You will need to add the name of all team members to this report, right at the beginning. Provide an outline for your report as well as references, images, code fragments (when necessary) and so on.

**To submit:**

Follow these steps to submit your work successfully:

1. Create a folder and name it as firstName\_lastName\_Test\_One
2. Copy all files that you developed in this folder
3. Write down your information on top of this document and place it in the folder
4. Zip this folder and submit it through moodle before the deadline
5. Write down your information on top of this page and submit this word file along with your files.