# B.Sc. in Computing

# DevOps Assignment 2018.

Use the following technologies in the development of your solution:

An automated pipeline MUST be demonstrated. Without this a maximum of 40% can be

* awarded.
* GitHub to provide version control for the project, each team member must commit his/her code
* at least once a week,
* Install jacoco for code coverage
* Agile Scrum & Jira for the management of meetings and backlogs, Facebook cannot be used.
* Use junit tests to test your code; make a suite of tests to run before each commit to github,
* TestNG may be used if desired,
* Use Javadoc to comment your code,
* Pay careful attention to exceptions; how are they handled, which are caught and which are
* thrown,
* Ensure that at least one of your own api’s and one web service are included in the design to
* demonstrate an understanding of service composition,
* Consider secure coding, be clear in your write up,
* Consider performance – allow time to run a performance testing tool such as jconsole or jrat,
* The main documentation may be submitted by any one member of the team – however the
* conclusions section is unique to all team members and will be marked as such. This constitutes
* a large portion of the grades.

Considerations:

* Framework(s)
* http://zeroturnaround.com/rebellabs/top-4-java-web-frameworks-revealed-real-life-usagedata-of-spring-mvc-vaadin-gwt-and-jsf/
* Database
* Database persistence technology
* Presentation Layer (jsf, jsp)
* Define the Business Requirements
* Named queries and database triggers for security
* Regex for cleansing and validation of data before sending to the database

## Customer Requirements:

Group 3: Eduardo Perez The customer would like an on-line system to enter customer details for tanks and trains. The system would then calculate the cost based on number of evil minions and weight of rockets. The system should be clean and simple. The system needs to take into account the usual details about dimensions and weight. The client needs detailed management of the number of tanks and trains in any given destination at any time. Each destination can only take a maximum of 5 tanks or 2 trains at any time. The administrator should be able to access detailed information and edit as appropriate. Once the client enters details it should not be able to be changed by the client.

**Each of your customers are trying to take over minion Island. They each need a system to manage their vehicles. Gru and Dr. Nefario are trying to protect the minions and their island.**