*CS1410: Java Programming development*

Group 11 Report

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# Brief description of the design distinguishing between library components and client code. This description should explain the rationale behind design decisions.

The current design of the

# (Level 1 only) A brief description of the changes that would be required to your library classes to support simulations with the following properties: more types of vehicles; multiple types of fuel with different prices; parking away from the pump during shopping; vehicles breaking down during the simulation

The initial changes to the classes to support the simulation would

# Diagram of the class hierarchy (which may be hand drawn and scanned) using UML notation (1–2 pages);

The diagram

# (Level 1 only) A sequence diagram for one of the main scenarios in the simulation (1 page);

# The results of the simulations in tabular form;

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# Brief discussion of the results and their implications;

The result does show the current size of the queue and clearly states the information of whether it is a

# Instructions on how to build and run the program.

To Build and run the