



**Department of Electrical
& Computer Engineering**
Faculty of Engineering & Architectural Science

| | |
|----------------|------------------------------|
| Course Title: | Software Design Architecture |
| Course Number: | COE692 |
| Semester/Year: | W2021 |

| | |
|-------------|------------------|
| Instructor: | Dr. Faezeh Ensan |
|-------------|------------------|

| | |
|------------------------|--------------|
| Assignment/Lab Number: | Lab 4 |
| Assignment/Lab Title: | Lab 4 Part 1 |

| | |
|------------------|-----------------|
| Submission Date: | April 8th 2021 |
| Due Date: | April 8th, 2021 |

| | | | | |
|------------|--------------------|-------------|----------|-------------|
| Last Name: | First Name: | Student ID: | Section: | *Signature: |
| Samaroo | Anand Alexander | xxxxxx021 | 03 | AAS |

*By signing above you attest that you have contributed to this written lab report and confirm that all work you have contributed to this lab report is your own work. Any suspicion of copying or plagiarism in this work will result in an investigation of Academic Misconduct and may result in a "0" on the work, an "F" in the course, or possibly more severe penalties, as well as a Disciplinary Notice on your academic record under the Student Code of Academic Conduct, which can be found online at: <http://www.ryerson.ca/senate/current/pol60.pdf>

Description of Microservices:

For this lab there are 3 microservices. The CarFrontEnd, CarSearch, and CarRent microservices.

The CarRent microservice is responsible for retrieving data on whether a car is currently being rented by a user. It has a current DB with a table for CAR_Rent.

The CarSearch microservice is responsible for searching over cars based off model, manufacturer, and year. The database is carsearch with tables for CAR, MANUFACTURER, and CAR_MANUFACTURER.

The CarFrontEnd microservice is the FrontEnd microservice that provides a GUI for the users as well as retrieve information from other services, and check the login and apply authentication mechanisms. This microservice has an account database with an ACCOUNT table.