

## Sri Lanka Institute of Information Technology

## B.Sc. Honors Degree in Information Technology

Specialized in Software Engineering

Final Examination Year 3, Semester 1 (2021)

# SE3040 – Application Frameworks Final Paper Report

Student ID number:IT19123028

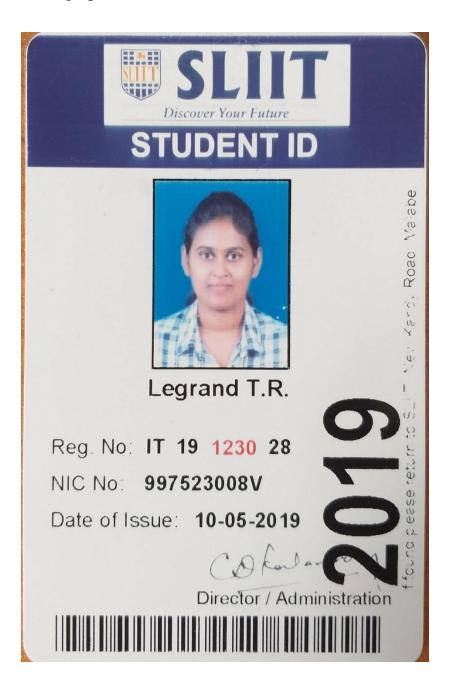
Name: Legrand T.R

#### For Evaluations:

Marks Allocation	Marks
Implementation of User Interfaces - 24 marks	
Implementation of service endpoints 30 marks	
Implementation of the calculation service 24 marks	
Suitable technology selection (Student will be eligible	
for this mark if only he/she select the correct	
technologies for the different parts of the application)	
10 marks	
At least one-unit test for either part of the application	
(UI / services) 5 marks	
Styling of the UI 2 marks.	
Coding standards and quality- 5 marks	

#### Comments:

## Photograph of the Student ID



## **Technologies Used**

Backend: Node.js

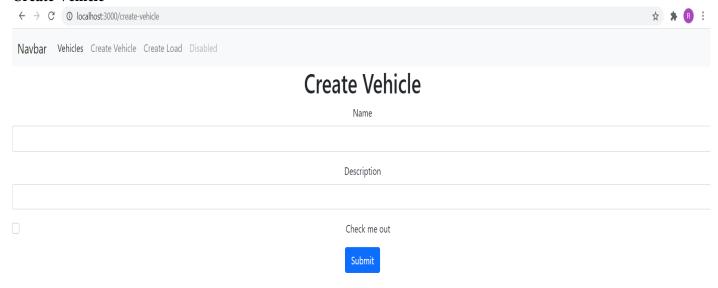
Even though Node is an asynchronous event model, it is still single threaded. So, if you run a Node process with a single thread, it will not execute in parallel. Since the create vehicle, create Load, View Vehicles, View Loads and the delete Vehicle methods are not very CPU heavy, so I used the Node.js as for the backend development.

Frontend: React.js

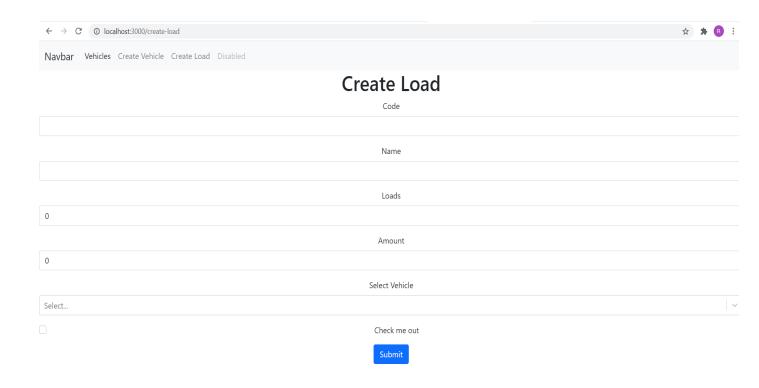
React allows developers to create large web applications that can change data, without reloading the page. The main purpose of React is to be fast, scalable, and simple. It works only on user interfaces in the application. This corresponds to the view in the MVC template.

Screenshots of all user interfaces of the frontend application <<< Insert all screenshots here... >>>

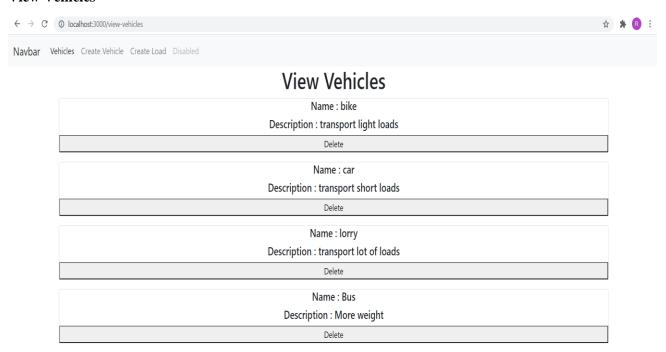
### **Create Vehicle**

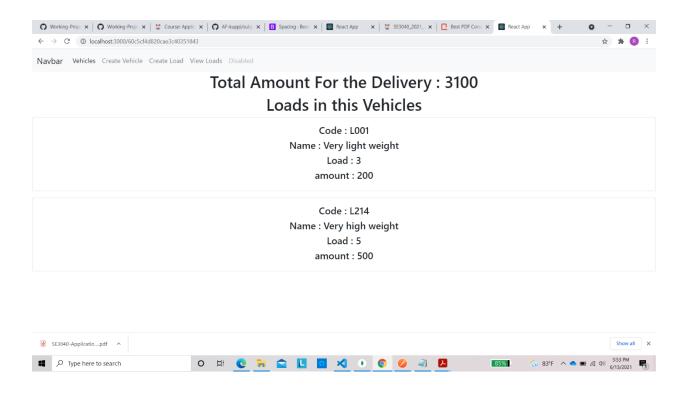


**Create Load** 



#### **View Vehicles**





## Screenshots of all MongoDB collections

<<< Insert all screenshots here... >>>

