Sri Lanka Institute of Advanced Technological Education Higher National Diploma in Information Technology

Higher National Diploma in Information Technology

System Requirement Specification Document

"LS Transport"

(Desktop Application for Cab Service)

Name Of the student	Register Number	Signature
H.A.L.E.S.Gunasekara	ANU/IT/2019/F/0055	

(HNDIT2404)
Project(individual)

Supervisor: Mr. Pavaridu sahansith

Academic Year: 2019/2021   Year 2-Semester 02(Fulltime)

Submission Date: (12/10/2021)

TABLE OF CONTENT

1 Introduction

The SRS document is submitted to meet software development requirements of the individual project module conduct by the Sri Lanka Institute of Advanced Technological Education (SLIATE).

This SRS document describes the objectives, requirements and nature of the project intended to develop the software. There are a number of guidelines to follow when creating this document. this includes the purpose, scope, functional and nonfunctional requirements, it also contains the information about environmental conditions required, safety and security requirements, software quality attributes of the project etc.

This is a desktop application designed for a car rental company "LS transport", today people use vehicles for their daily commute, but there is no formal procedure for doing so, once this application is set up, you will be able to perform those tasks with minimal need.

2 Scope of the project

LS transport is a user- friendly fancy computer application that can be connected through any computer.

Here the admin can add users will not be able to connect to this software without the inclusion of users. The admin will enter the username and password after entering the username and password. User can then enter it and link to the app.

Use can perform activities such as vehicle registration, driver registration, booking, customer registration

User can negotiate with their clients and reserve vehicles at their discretion.

Here will find a summary of drivers and clients currently registered with the software, as well as incomes of current software users and existing vehicles.

End users can log out

3 Functional requirements
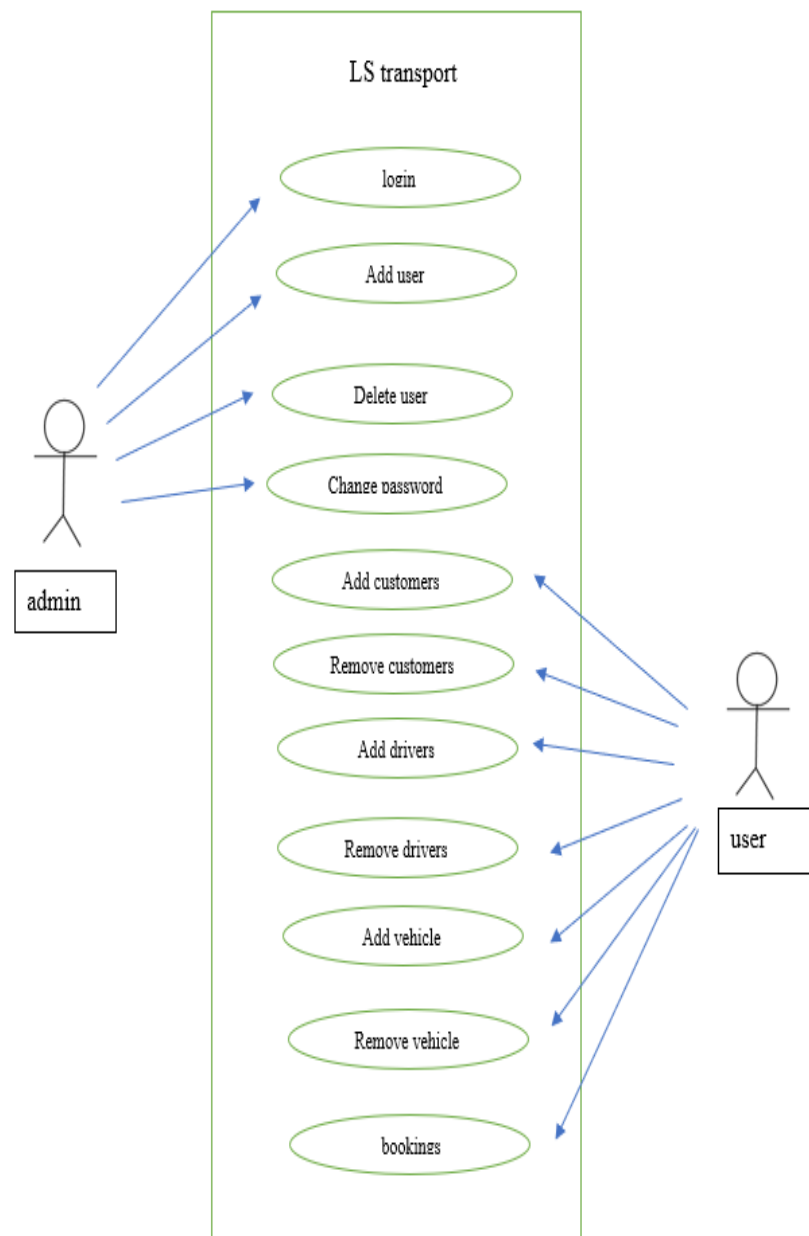
3.1 Actor description

Admin

Admin is the most important component of the system. Here the user is the one who adds to the system.
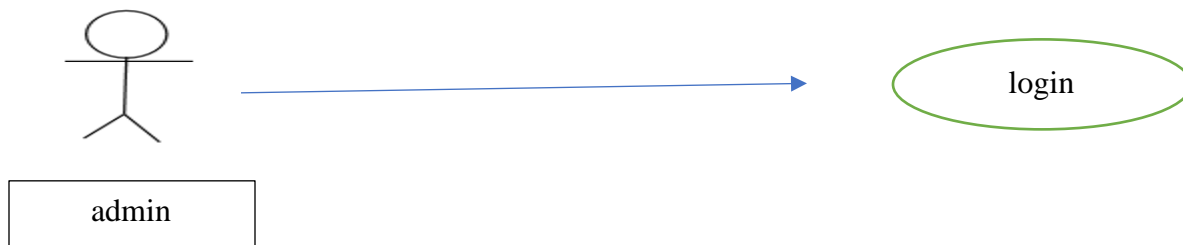
User

The user has a large role to play in the system, for example, entering vehicles, entering drivers, and making vehicles bookings. Simply put, the user performs all the functions of the system after adding the admin user.
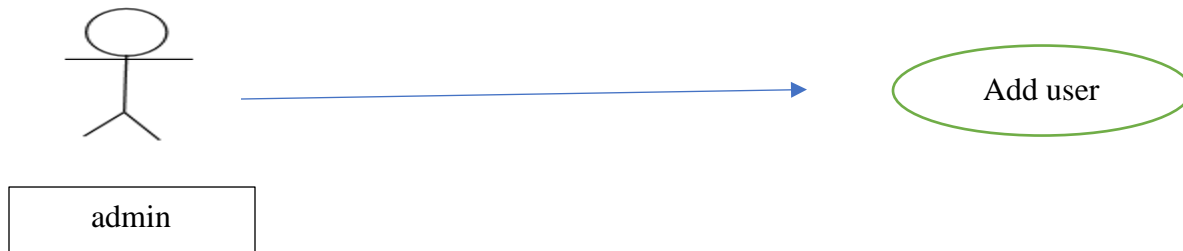
3.2 Use case diagram

LS transport

- login
- Add user
- Delete user
- Change password
- Add customers
- Remove customers
- Add drivers
- Remove drivers
- Add vehicle
- Remove vehicle
- bookings

admin

user

3.3 Case description

3.3.1   Case 01

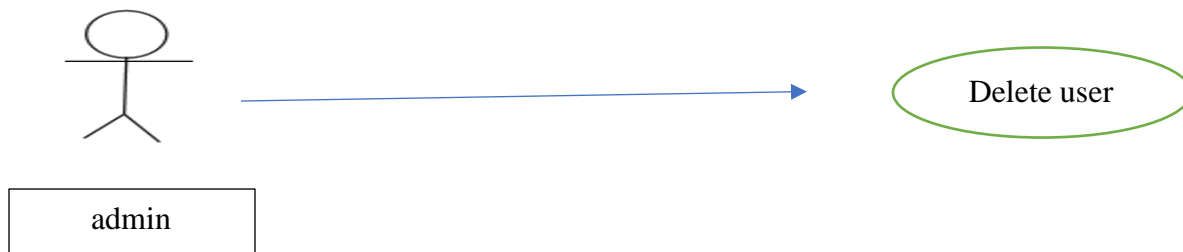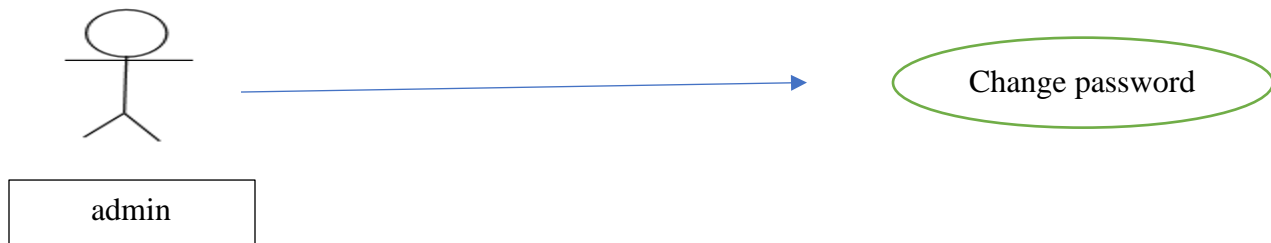| Case name	login
actor	admin
overview	Admin need to login to the application
description	• Open application • Go to login page • Fill login information • Click login button
Pre- conditions	• Admin should open the application • Admin must enter the password first
Post-conditions	Display the message and redirect to the users add page.
Alternative flows	At the time of login, you enter the login button without a password error or password, display relevant error message.

3.3.2 Case 02

Add user

admin

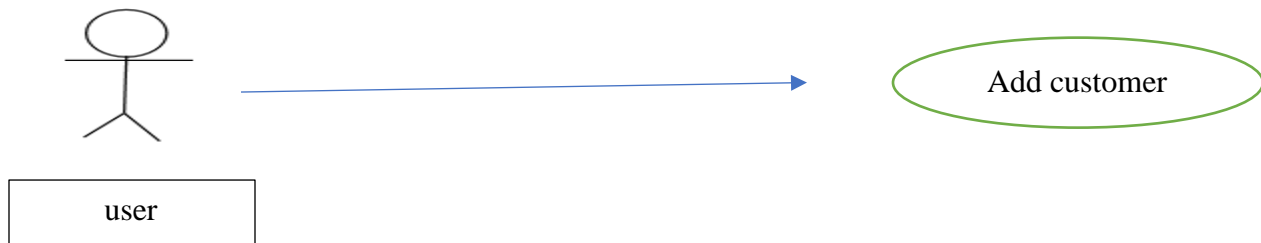| Case name	Add user
actor	admin
overview	Admin can add users
description	- Go to users add page. - insert users details - Admin provides password and click save button
Pre-condition	Admin must log in to the application
Post-condition	View the added users.

3.3.3 Case 03

admin → Delete user

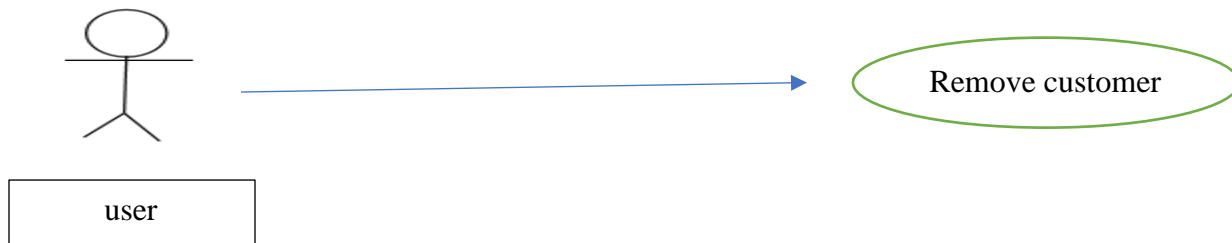| Case name	Delete user
actor	admin
overview	Admin can delete user
description	• Go to users add page. • After admin can delete users
Pre-condition	• Admin must log in to the application • And users must have pre-entered
Post-condition	Users remove the application

3.3.4 Case 04

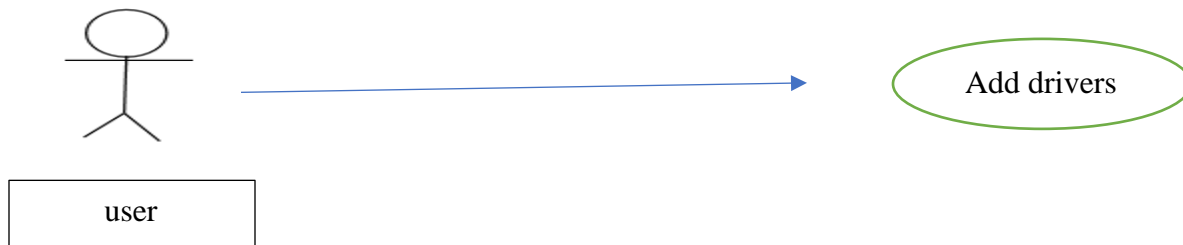| Case name	Change password
Actor	admin
Overview	Admin can change password
Description	• Go to users add page. • After admin can change password • Click save button after change password.
Pre-condition	• Admin must log in to the application • It must have included users.
Post-condition	Changed the user's password.

3.3.5 Case 05

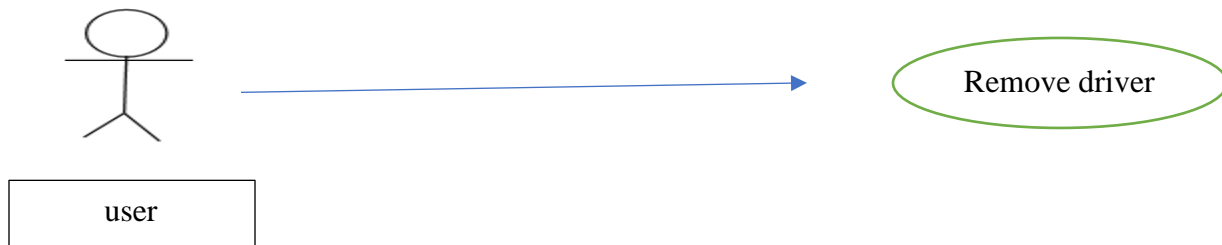| Case name	Add customer
Actor	user
Overview	User can add customers
Description	• User should login to the application using his own user name and password • Go to customer add page • User enter the customer information and click save button
Pre-condition	User must log in to the application
Post-condition	Add customers and show customers

3.3.6 Case 06

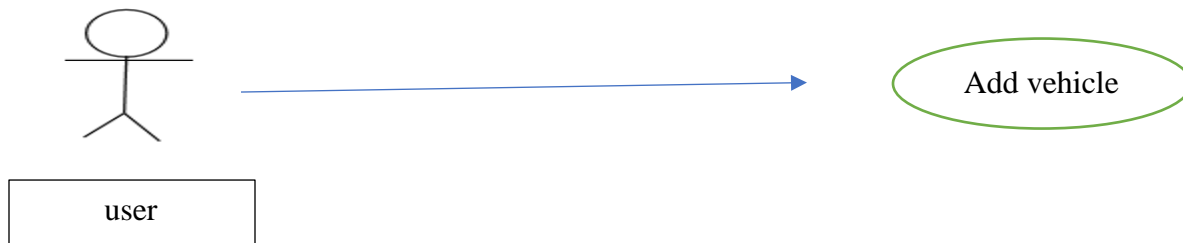| Case name	Remove customer
Actor	user
Overview	User can remover customer
Description	- Go to user add page - Remove customer - Click save button
Pre-condition	- User must log in to the application - It must have included customers
Post-condition	Deleted customer

3.3.7 Case 07

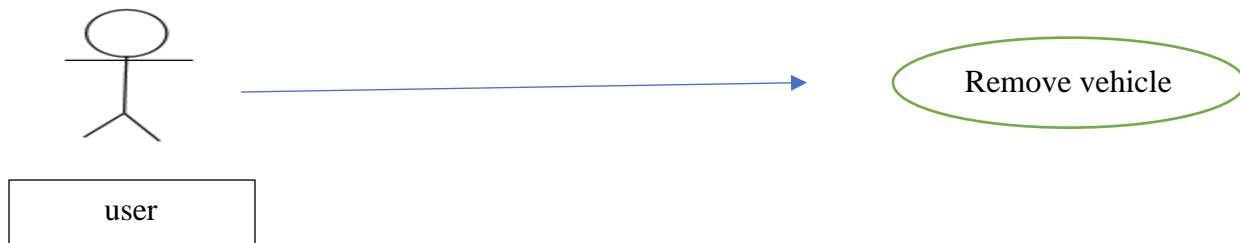| Case name	Add driver
Actor	user
Overview	User can add driver
Description	• User should login to the application using his own user name and password • Go to the driver add page • User enter the drivers information and click save button
Pre-condition	User must log in to the application
Post-condition	Add driver and show driver

3.3.8 Case 08

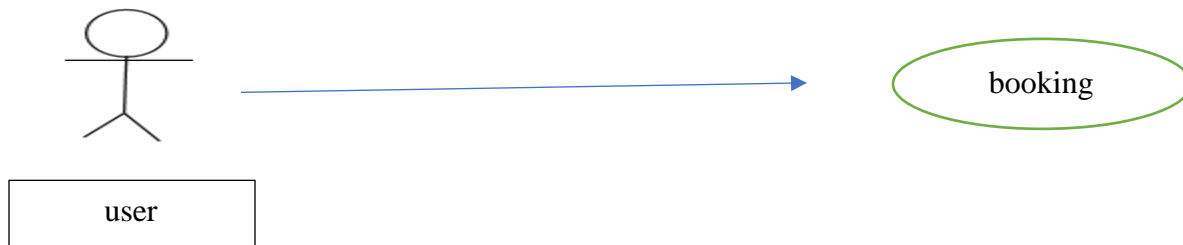| Case name	Remove driver
Actor	user
Overview	User can remover driver
Description	• Go to driver add page • Remove driver • Click save button
Pre-condition	• User must log in to the application • It must have included drivers
Post-condition	Deleted driver

3.3.9 Case 09

Case name	Add vehicle
Actor	user
Overview	User can add vehicle
Description	• User should login to the application using his own user name and password • Go to the vehicle add page • User enter the vehicle information and click save button
Pre-condition	User must log in to the application
Post-condition	Add vehicle and show vehicle

3.3.10 Case 10

Case name	Remove vehicle
Actor	user
Overview	User can remove vehicle
Description	• Go to vehicle add page • Remove vehicle • Click save button
Pre-condition	• User must log in to the application • It must have included vehicle
Post-condition	Deleted vehicle

3.3.11 Case 11

Case name	booking
Actor	user
Overview	User can booking vehicle
Description	• User should login to the application using his own user name and password • Go to the booking page • Check availability of drivers and vehicles • User enter booking information and click save button
Pre-condition	User must log in to the application It must have drivers and vehicles already available
Post-condition	Booking vehicle

4 Non-functional requirements

Non-Functional Requirement (NFR) specifies the quality attribute of a software system. They judge the software system based on Responsiveness, Usability, Security, Portability and other non-functional standards that are critical to the success of the software system.

- **Performance**

System performance defines how fast a system can respond to a particular user's action under a certain workload.

> The application load time should not be more than one second for users.

- **Reliability**

Reliability is the probability and percentage of the software performing without failure for a specific number of uses or amount of time.

> Applicants can access their resume 98% of the time without failure.

- **Availability**

This feature defines the amount of time the system is running, the time it takes to repair a fault, and the time between lapses.

- **Maintainability**

This feature indicates the average time and ease and rapidity with which a system can be restored after a failure.

- **Security**

Security measures ensure your software's safety against espionage or sabotage.

> Only the users with the role "admin" can view the applicant's verified phone number.