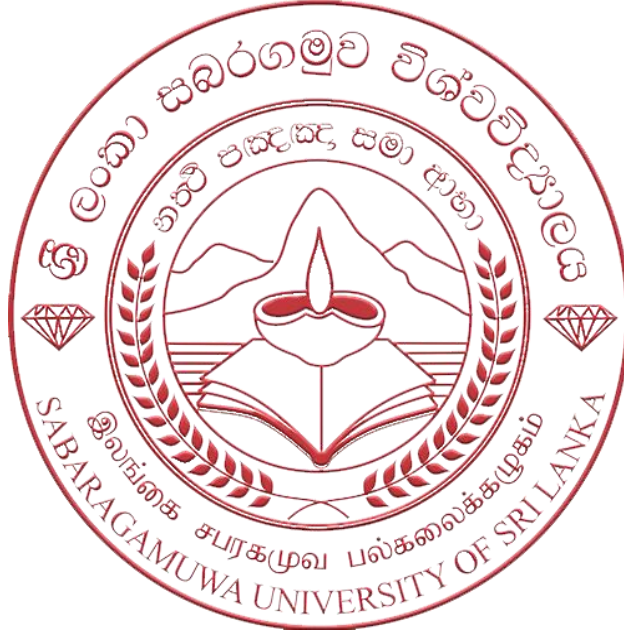


IS2106 - System Analysis & Design



TransferEase – Vehicle Ownership Transfer System GROUP 12

Department of Computing & Information Systems

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1. Introduction

1.1. Purpose

The purpose of this Software Requirement Specification is to present, detailed description of the website. This will explain the purpose and features of the system, all the functions, specifications, design constraints, requirements (functional and non-functional) and other factors that need to provide for a completely comprehensive description of the proposed Website. This document is intended for both the stakeholders and the developers of the system.

1.2. Product Scope

Motor Traffic Department of Sri Lanka is the department that responsible for registering new vehicles and ownership transferring. Still now, transferring ownership of vehicles is happening via a manual process. By filling the forms called MTA 2, MTA 6 and submitting them to the Motor Traffic Department and wait for minimum time duration about 6 months is kind of very long process.

By the website we are going to facilitate owner, buyer and Motor Traffic Department to do the transferring process in three interfaces and make the process easy and secure without letting owner and buyer go to the Motor Traffic Department or it's branches.

2. Overall Description

2.1 Product Perspective

This website which will be developed through this project will assist in preventing long manual processes by implementing an online process to transfer ownership of vehicles. First the buyer has to make an account on this website using the National Identity Card(NIC) number by making an username and a password for the account. After logging into the account, the buyer has to give the relevant vehicle register number to the website and fill the relevant online documents(MTA6 form) with required authentication and online payments. By the database running in the background, the vehicle register number can automatically send a request to the owner of the vehicle after the buyer requests the vehicle by submitting his/her documents. From that request sent by the buyer, the owner has to look for the details and confirm that request. Then they officially like to transfer their vehicle among them. After accepting this request the Department of Motor Traffic also can verify

these filled forms and then after DMT can approve this vehicle owner transfer officially. After that, the number plate will be changed if the owner and the buyer of the vehicle are from two provinces.

Behalf of all these processes, everyone who has an account can see the details of their own registered vehicles, on that website. Also, if someone is having trouble with using this website they can use the user guide manual we provided in the website's help desk. (For more details - 2.6 User Documentation)

2.2. Product Functions

- When the vehicle transfer is processing the D.M.T. can confirm that
- Record vehicle details
- Facilitate transfer of ownership between parties
- Generate and store ownership transfer documents
- Notify involved parties of successful ownership transfer
- Update vehicle registration records

2.3 User Classes and Characteristics

User

- Can access the system with limited privileges
- Can initiate the ownership transfer process
- Receives notifications regarding the status of ownership transfer
- Users can login to their account and see their own registered vehicles

Administrator

- Has administrative access to the system dashboard
- Can oversee and manage ownership transfer processes
- Can verify and authenticate user information

2.4 Operating Environment

Hardware Requirements:

- Computer
- Internet Connection
- Mobile device

Software Requirements:

- Web Browser (Chrome, Firefox, Safari, etc.)
- GitHub (Github Pages)
- Firebase

2.5 Design and Implementation

Access Control: Only authorized users and administrators, have access to specific functionalities within the system.

Individual User Authentication: Each user is required to have a unique user name, password and NIC number for accessing the system, ensuring security and privacy.

2.6 User Documentation

A user manual will be given in the help desk section of this website as a pdf that thoroughly describes all functionalities of the website, how users have to fill their forms and how to do the online payments. Additionally, it includes email addresses and telephone numbers for contact in case of a problem.