Software Design Document

For

"UNIVERSITY TRANSPORT MANAGEMENT SYSTEM"

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1 Introduction:

1.1 Purpose

The purpose of this document is to describe the implementation of our ”UNIVERSITY TRANSPORT MANAGEMENT SYSTEM” as described in the Software Requirements Specification. The purpose of the software is to get information regarding caddies and University busses present in our college.

1.2 Scope

This document tries to explain the major functionalities of the Software. It explains the implementation of the two major functionalities first is to display time of arrival of caddies and university busses and count of empty seats present in them and also assigning each of the vehicles to various drivers and their management.

2 Design Overview

2.1 Main Objective

We faced many problems regarding availability of university busses and caddies in our college. This website's main objective is to provide users(students,faculty,etc) with that information regarding those vehicle's availability and weather they are having seat availability and their time of arrival to user destination.

2.2 Technolgies Used

"UNIVERSITY TRANSPORT MANAGEMENT SYSTEM" IS a website which can be accessed from any standard web browser. The website will be developed using XAMPP server and which includes MYSql for database and php language is used for backend.

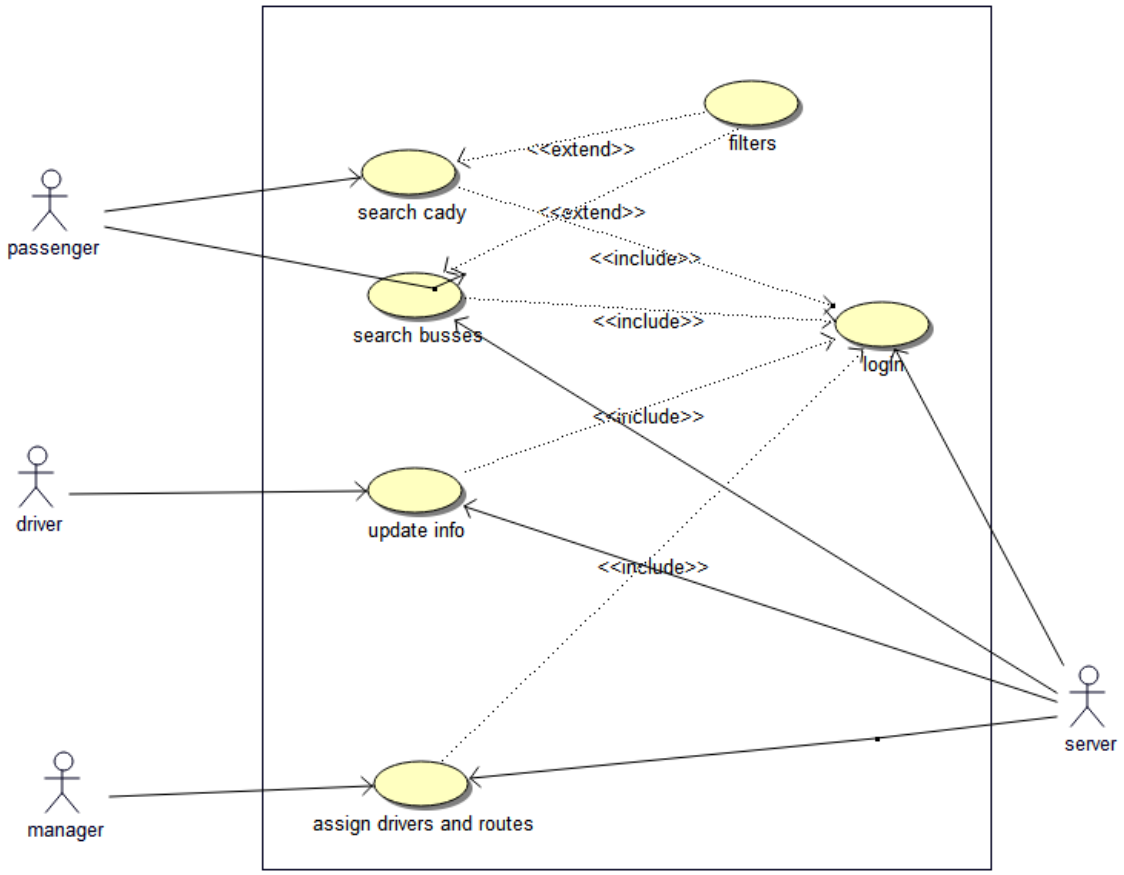
2.3 System Architecture

We are using Three-tier Architecture for our system. The system developed consists the following components:

- **Presentation Tier/User Interface/Front End:** All the user interactions of the user occurs through User Interface for which we will use HTML, CSS(front end).
- **Application Tier/Backend:** All the application logic is served through the backend for which we are using php language from XAMPP server.
- **Data tier/Database:** For storing and maintaining the data we are using the MYSql database.

2.4 System Operation

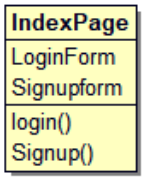
The following diagrams represents all the functionalities of the software



3.Authentication Interface

The following diagram depicts the authentication functionality:

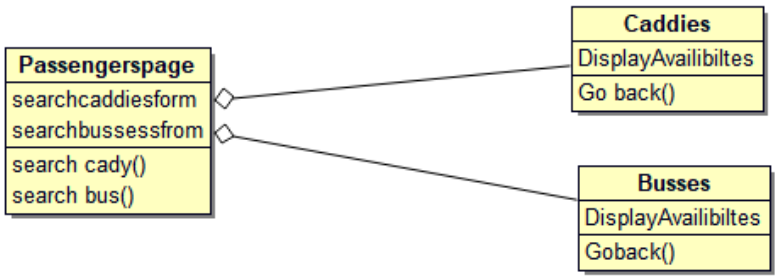
The authentication interface is the index page in the website. It has two forms mainly:

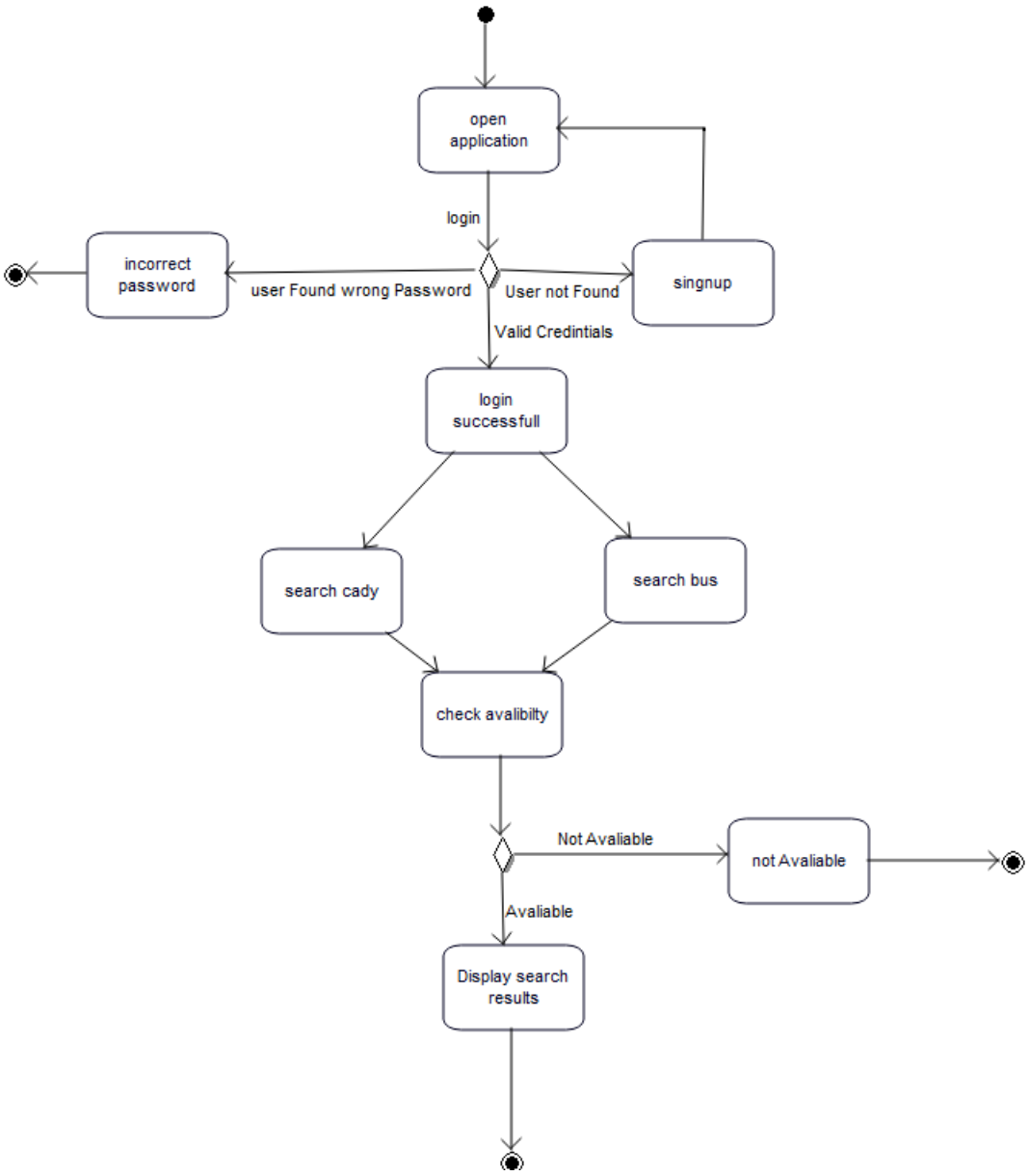


Login Form, signUp Form . User can log in to the website but all users should signup by giving their details and create their username and password then can login into our website by entering those credentials but drivers and managers have their own pre-defined credentials and use those for logging in.

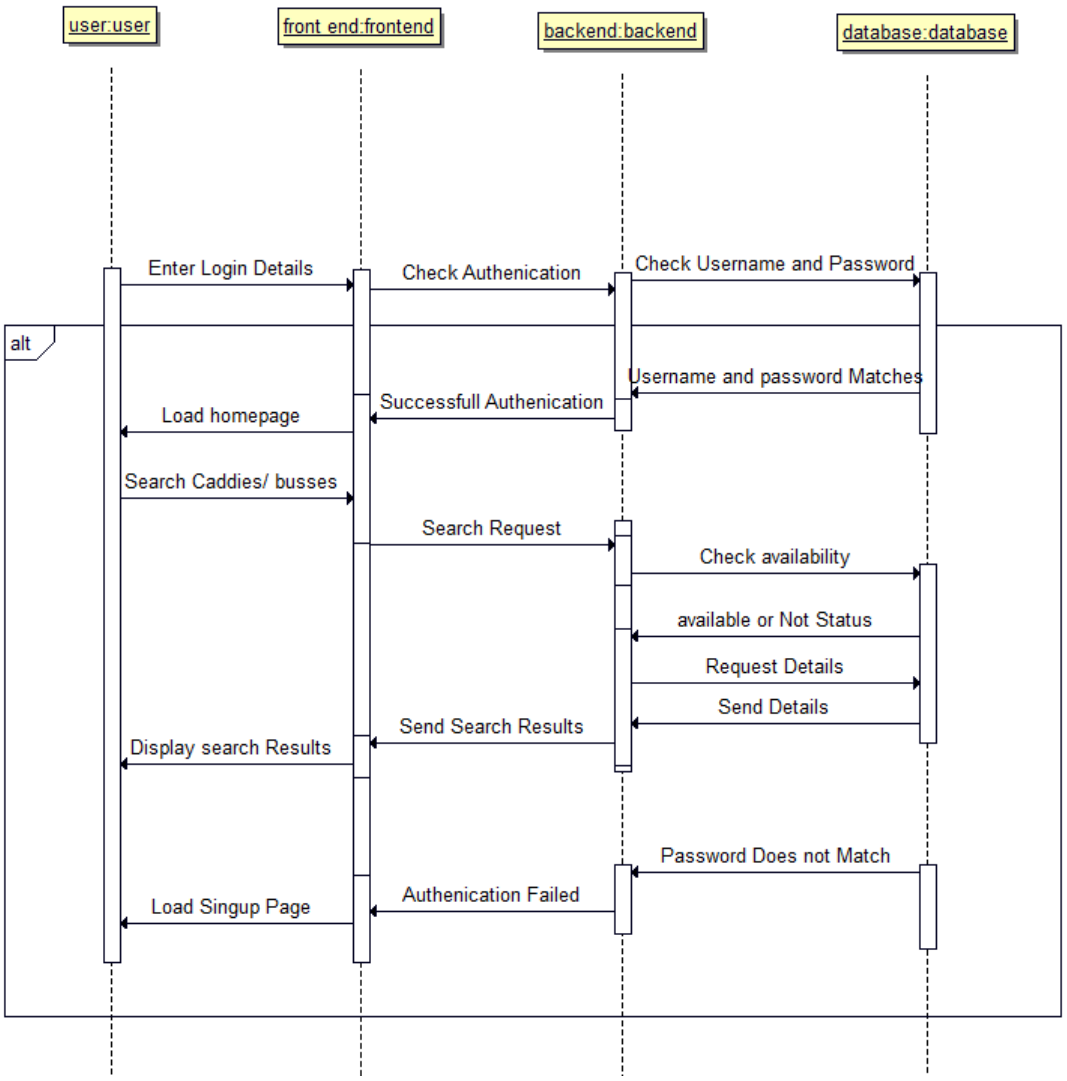
4. User Interface:

The following diagrams represent the activities of the User:



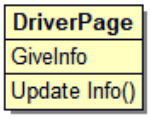


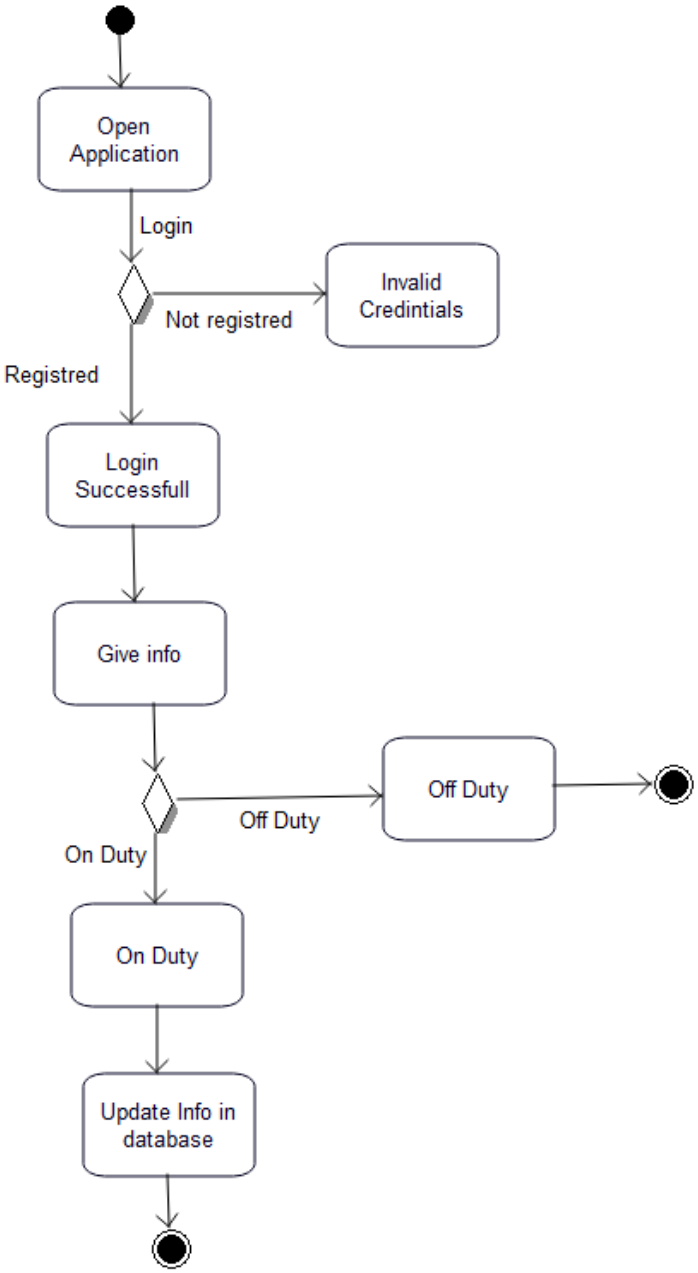
User can select caddy and enter his location and destination so that he can see the next 3 caddies arrival and their time of arrival also the empty seats present in them this is also same in university busses user inputs his location and destination for arriving bus information.



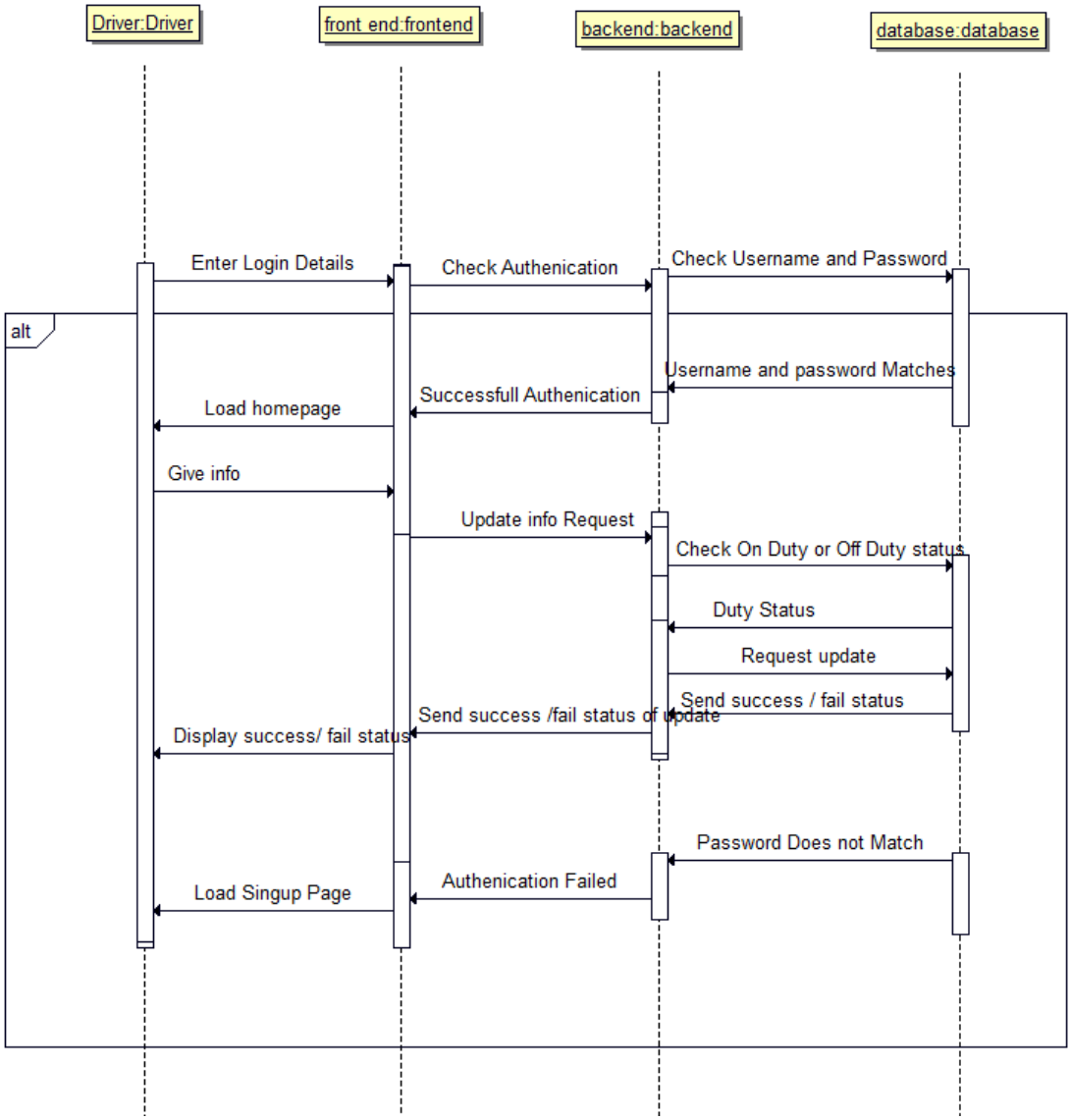
5. Driver Interface:

The following diagrams represent the activities of the Drivers:



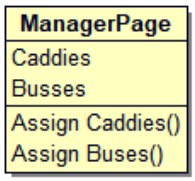


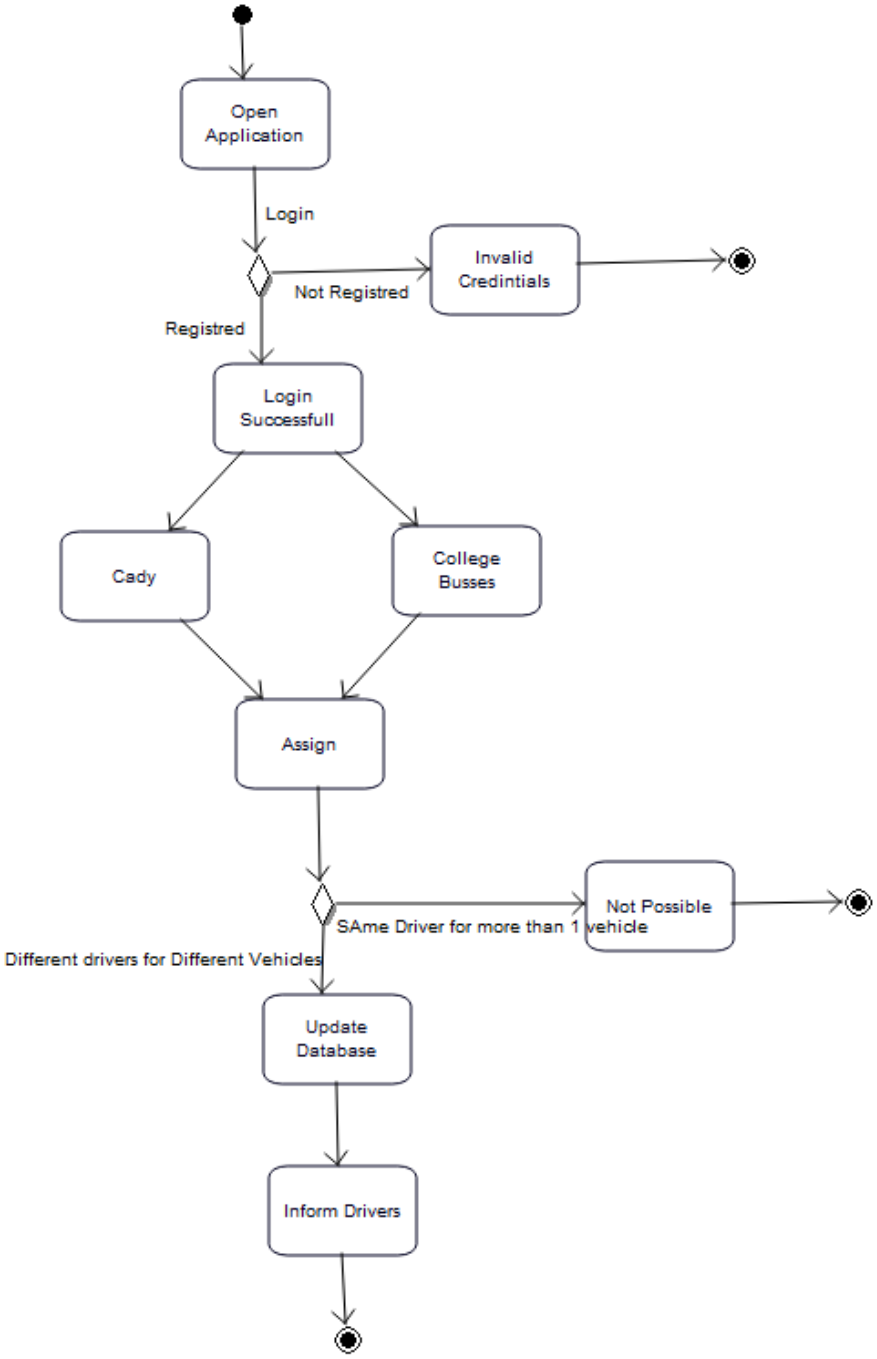
Drivers interface in the website has only one function they specify the location of caddy or university bus at every station and they also specify the number of empty seats present. They also can view which caddy or bus they have been assigned based on caddy_number or bus_number.



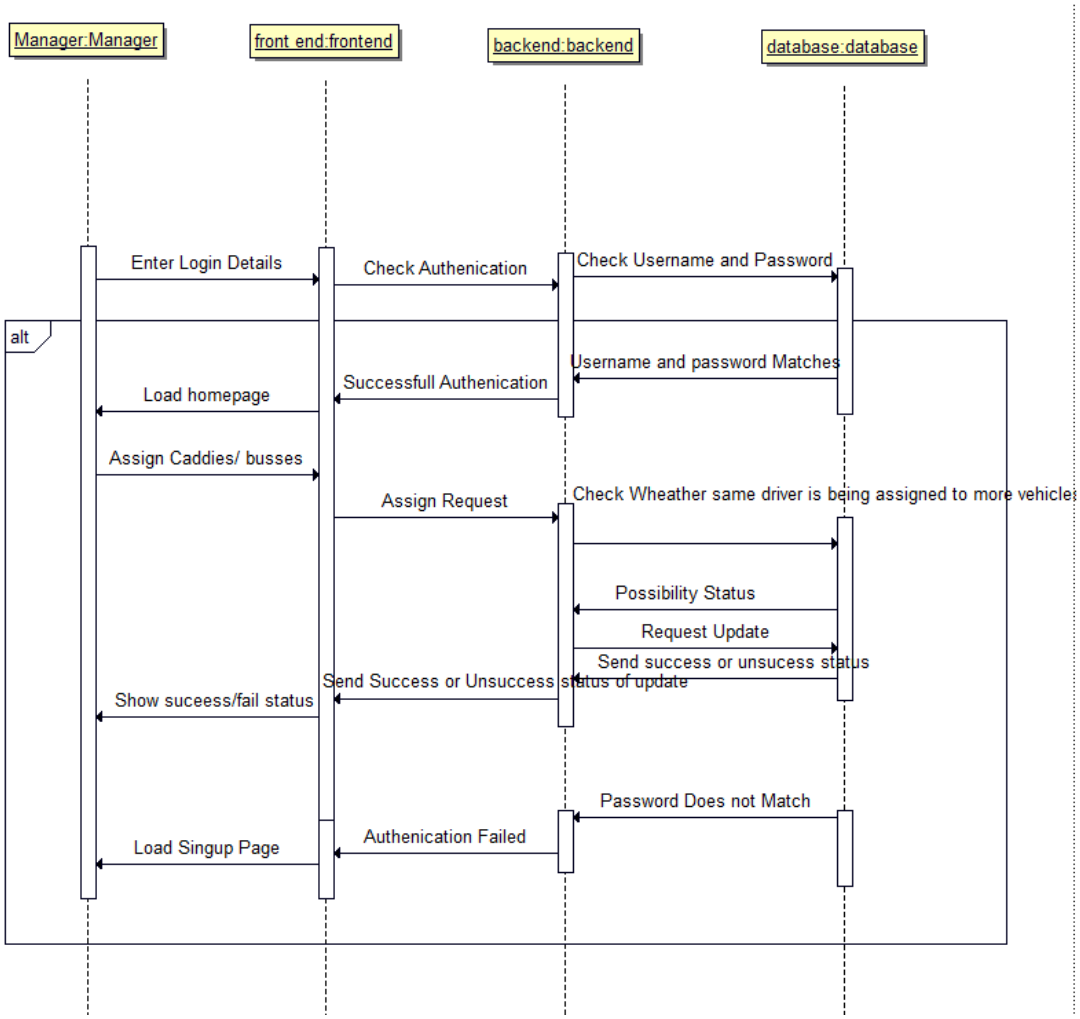
6. Manager Interface:

The following diagrams represent the activities of the managers:





Manager interface in our website mainly assigns drivers to their respective caddies or University busses. He is like an admin to our website who manages all the data in the database. He updates all new drivers info and new vehicles are also included to the database by him.

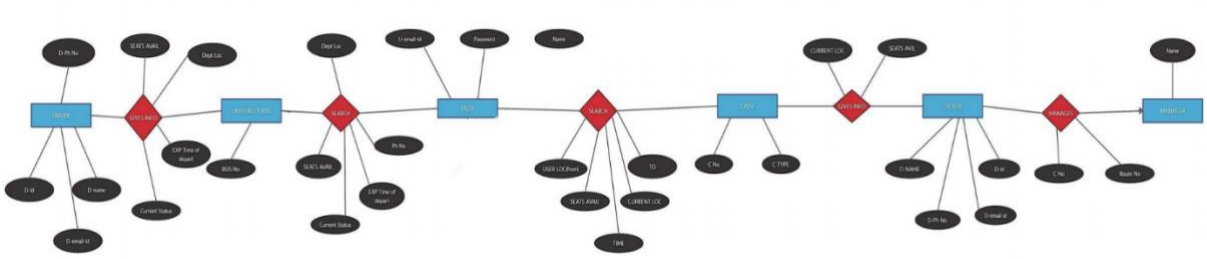


7.Database Model:

We will use MYSql for the database.

This database will have the following entities:

- User - data for authentication
- Drivers - data for drivers
- Manager - data for manager
- caddy- data for caddy
- university bus - data for university busses



ER-Diagram