Cégep de la Gaspésie et des Îles

CAMPUS DE MONTRÉAL

Software Requirements Specification Document

Logistics Company App

Guided By:

Prof. Pargol Poshtareh

Prof. Navpreet Kaur

Prof. Silviya

Prepared By:

Bhimajiani Vrajesh Hasmukhbhai 1994274

Koneti Venkata Siva Pavan Kumar 1993827

Dondeti Akhil Reddy 1994149

Prabjot Kaur 1994494

Sing Gurvinder 1994585

Nanduri Raja Shekar 1795526

Content 1

1.1 Purpose 3

1.2 Scope 3

2 General Description 4

2.1 Product Functions 4

2.2 Users Characteristics 4

3 Specific Requirements 5

3.1 Functional Requirements 5

3.2 Non-Functional Requirements 6

4 Analysis Models 7

4.1 Use Case Diagram 7

4.2 Class Diagram 8

4.4 E-R Diagram 11

4.5 User Stories 12

5 Use Case Scenarios 17

1 Introduction

This application will help all sorts of businesses to handle, control and store their goods while having a simple track on every moment with all necessary details. This application will have two modules which are driver's and admin's where both need to sign up on the application (specifying role on signup) and admin will be able to post trips where the drivers will be able to connect to trips (admin is the one who wants to move their goods). The User and Admin can also leave feedback/ratings of others and this feedback can be viewed publicly on their profile.

1.1 Purpose

For good customer service, businesses must have effective and helpful logistics management application/software so they can provide good customer experience by which they can grow more business. However, this application will also help the admin to get success in the supply chains life cycle of business by which user can compete in this era of globalization and our application will help this business to get deliver this good by just posting a trip with all details in application and on the other hand, the driver will be able to see this posted trip with details. Moreover, drives will also get an opportunity for self-employment.

1.2 Scope

There are a lot of tasks to handle when it comes to logistics like orders processing, transportation and inventory. So, this application will help admin to transport goods between locations and it will also help the admin to manage or view available stock in warehouse (inventory) while admin just need to post the delivery requirements which will be further viewed by drivers for moving the goods. Moreover, there are many logistic apps already available on app store and play store. Among them, most of the applications require dozens of steps to even get registered into the system. where this app will be a smooth process for drives and businesses to grow.

2 General Description

This section specifies the workflow of application and the overview of application functions.

2.1 Product Functions

- Login For admin/driver (one must select the role)
- Sign Up for new admin/drives (one must select the roles)
- admin can post a trip with shipment details (destination pickup time, delivery time, weight,size,distance,status etc)
- admin can update the posted trip details (before the pickup is done)
- admin can see the posted trip status.
- the driver will be able to see posted available trips with a conform and decline button (with trip details).
- The driver can update the trip's status (only after confirming the trip.)
- Once the status is updated, the delivered trip will mark as completed.
- the driver/admin can rate the trip (only after marked completed by driver).
- the drive will/can be navigated to posted available trips (if he doesn’t clicked and conform trip button)
- the driver can edit his profile details

2.2 Users Characteristics

Both admin and driver have to specify the role at signup, after login the admin can post a trip, update and see the status of trips where the driver will be able to conform and update the trip and can rate the trip after completing it. .

3 Specific Requirements

3.1 Functional Requirements

Functional Requirements are essential for building the Logistics Company App.

Functional Requirements		
Sr. No	**Name**	**Description**
FR-1	Sign up/Login	Users and admin must sign up on the application with all required credentials.
FR-2	Add trip	the admin must be able to post the trip with all information on the application, like new loads available to pickup, its pickup time, delivery time, pickup and delivery locations, distance and cost per hour.
FR-3	Edit trip	Admin must be able to update the trip details before pickup only.
FR-4	view trip status	Admin must get the notification when any driver confirms the trip with all details of drivers (drivers will be able to see all the trip details).
FR-5	delete trip	Admin must be able to delete or cancel the trip before its pickup.
FR-7	post/view feedback	Drivers must be able see the ratings/reviews of the admin.(or vice versa)
FR-8	update trip progress (status)	Driver must be able to update trip status whenever pickup and drop off is done.(so, admin can track their shipment.)
FR-9	trip summary	Drivers can access their completed trip history and their corresponding payslips.

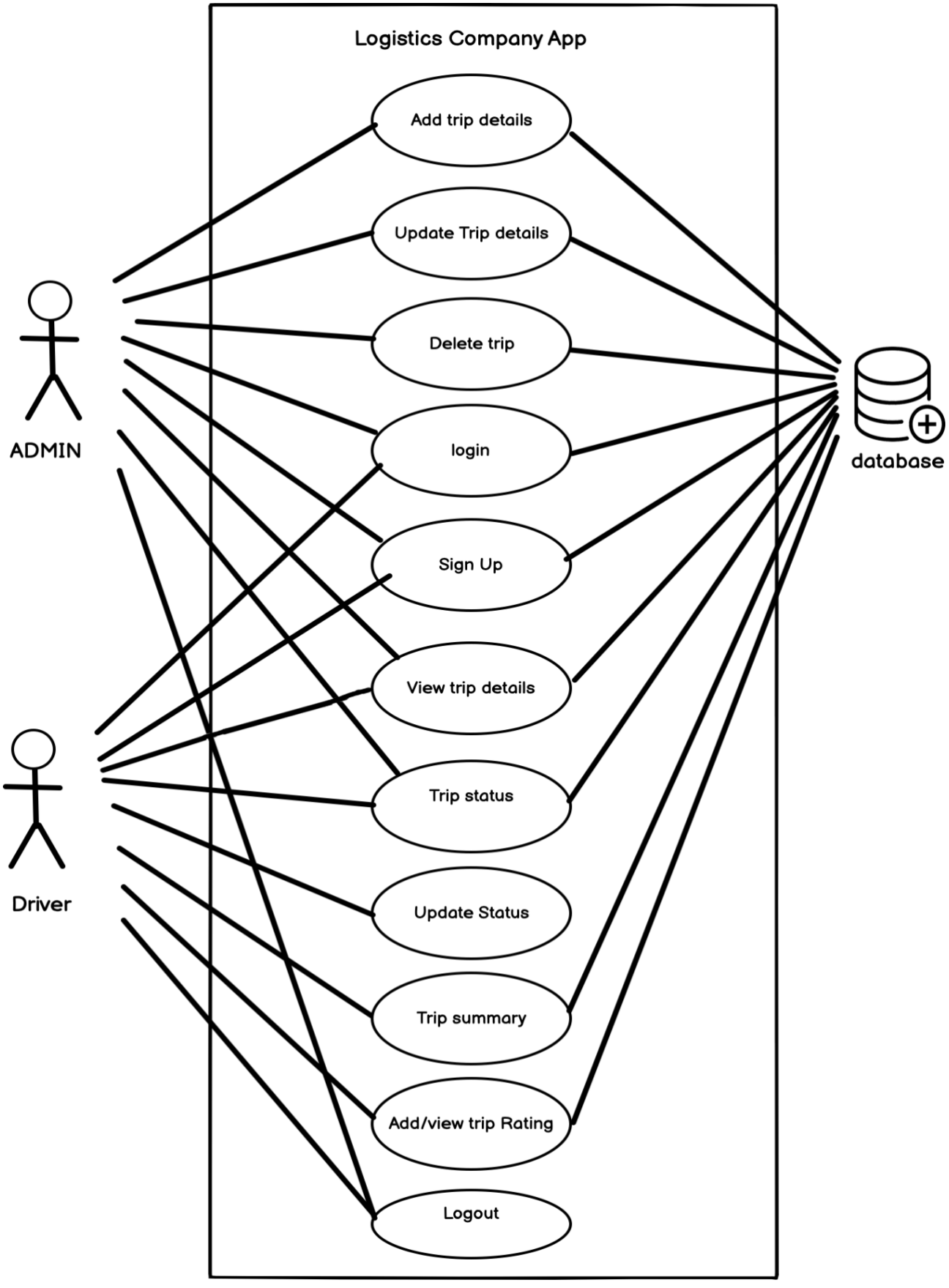
FR-10	notification	At the time of trip confirmation, admin and driver both will get notification.
FR-12	Logout	Users must be able to logout from the application.

3.2 Non-Functional Requirements

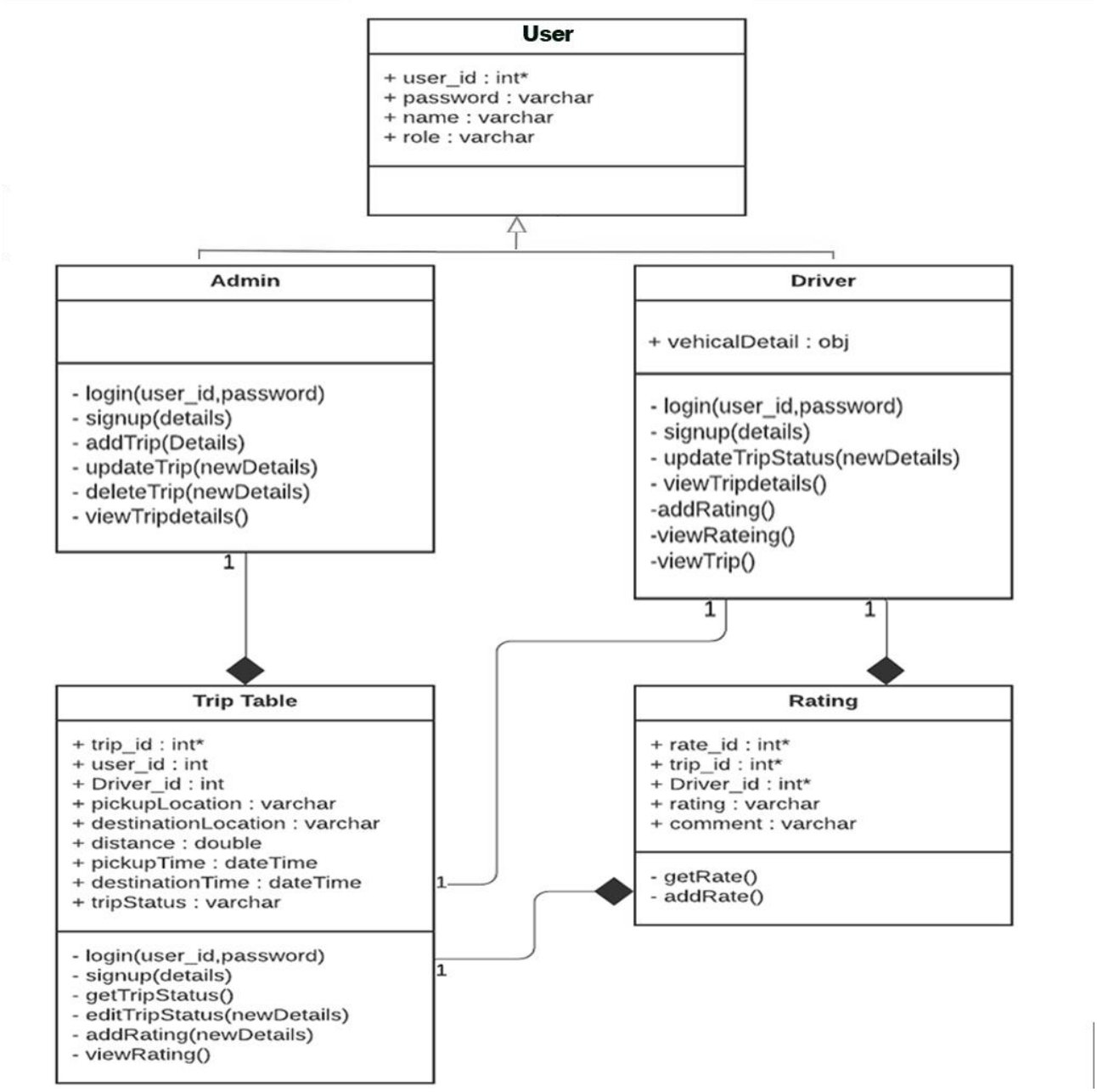
Non-Functional Requirements		
Sr. No	**Name**	**Description**
NFR-1	Performance	the navigation between activities must be quick.
NFR-2	Response Time	the updated status must be quickly reflected in trip status.
NFR-3	Reliability	Driver's all-important details (like Vehicle plate numbers and driving licenses) must be validated prior.
NFR-5	Usability	Admin should have the right to see all confidential information with prior permission of the driver.
NFR-6	Memory	The application size along with resources should not exceed more than 30MB
NFR-7	Availability	application will be compatible with almost android version

4 Analysis Models

4.1 Use Case Diagram

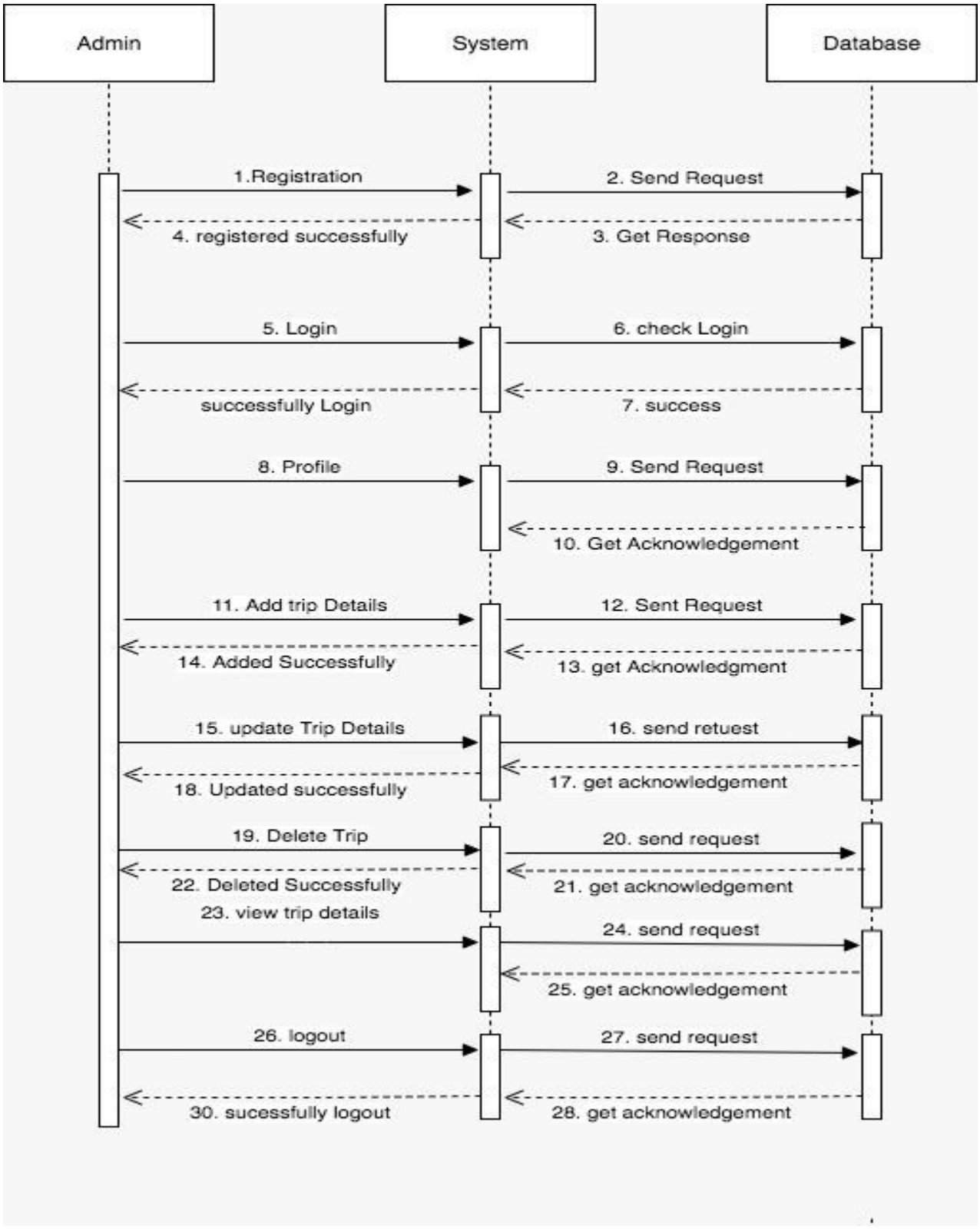


4.2 Class Diagram

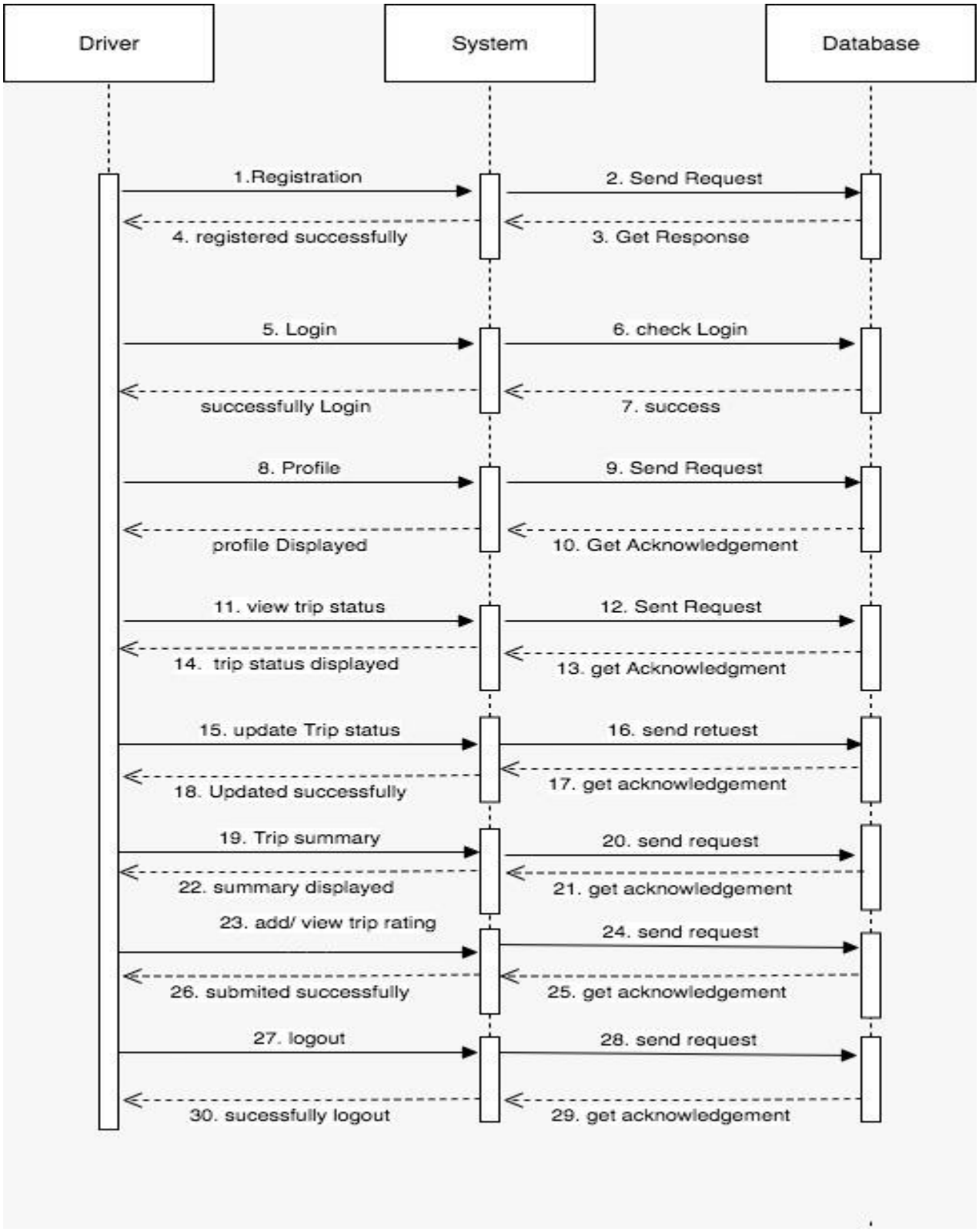


4.3 Sequence Diagram

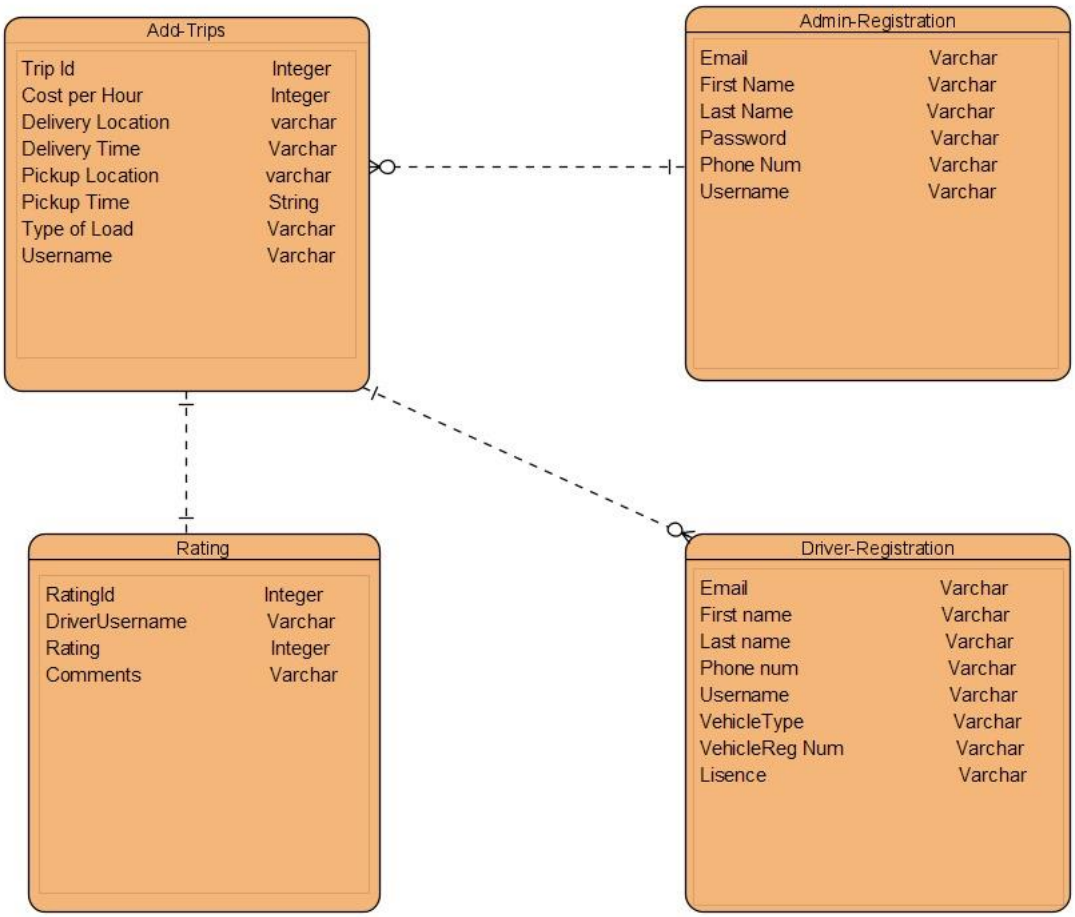
4.3.1 Admin sequence diagram



4.3.2 Driver sequence diagram



4.3 E-R Diagram



4.4 User Stories

This section contains the user stories. The functional breakdown is viewed as user stories.

User story Id	01
Name	As a user, I want to enter my email and password so that I can login to the logistics company app.
Description	When a user wants to access the logistics company app, the user first needs to enter email and password if already registered.

User story Id	02
Name	As a user, I want to register first to the logistics company app so that I can login.
Description	When users want to access the logistics company app. Users need to register with email, name, password, and confirm password.

User story Id	03
Name	As a user, I want to access the home page after login
Description	When a logged-in user should be able to view his trip details

User story Id	04
Name	As an admin I must be able to post the trip with all information on the application, like new loads available to pick up, its pickup time, delivery time, pickup and delivery locations, distance and cost per hour.
Description	The admin should be able to add new loads available to pick up, its pickup time, delivery time, pickup and

	delivery locations, distance and cost per hour.

User story Id	05
Name	As an Admin I must be able to update the trip details
Description	The admin after login can able to update the details of the trip like pick up, its pickup time, delivery time, pickup and delivery locations, distance and cost per hour.

User story Id	06
Name	AS an admin i should be able to view the trip status
Description	Admin must get the notification when any driver confirms the trip with all details of drivers (drivers will be able to see all the trip details).

User story Id	07
Name	As an admin, i must be able to delete the trip
Description	Admin must be able to delete or cancel the trip before its pickup.

User story Id	08
Name	As an Admin I should be able to delete or cancel the trip before its pickup.
Description	This list will include the name of the cinemas, location and their popularity

User story Id	09
Name	As a Driver, i must be able to view the feedback on trips
Description	Drivers must be able see the ratings/reviews of the admin. (or vice versa)

User story Id	10
Name	As a Driver, I want to update trip progress (status)
Description	Driver must be able to update trip status whenever pickup and drop off is done. (so, admin can track their shipment.)

User story Id	11
Name	As a Driver i must be able to view the trip summary
Description	Drivers can access their completed trip history and their corresponding pay slips.

User story Id	12
Name	As a Driver, I must be too able to view the notifications
Description	At the time of trip confirmation, admin and driver both will get notification.

User story Id	13
Name	As a Driver i must be able to logout of this application
Description	Users must be able to logout from the application.

User Story Id	101(Non-functional)
Name	As a user I want to be have a good user experience while using partner movie application because I want to use it again and again

Description	The purpose of this story is to improve the user's experience by improving code quality and therefore improving the usability of the application.

User story Id	102
Name	As a Stakeholder I want a lower code complexity in order to have better maintainability.
Description	In the application, there should be a code complexity of around 550 to reduce the risk of complex code.

User story Id	103
Name	As a Stakeholder I want responsive touch input because I want a better user experience
Description	The application should always remain responsive, meaning the user is always able to input any data that they need, and they are never waiting on the application.

User story Id	104
Name	As a user I want low battery usage because my battery does not last long
Description	The application should never drain too much battery. This can be seen if you leave the application running in the background for an extended period of time. The battery should not drain quickly.

User story Id	105
Name	As a user, I want my application to be memory efficient because my device has limited memory.
Description	The application should never use too much memory when the user is using it. This can be seen by installing the application, seeing how much space it takes.

User story Id	106
Name	As a user I want limited network data usage because I have a limited data plan
Description	The application should never use too much data as this could potentially cost the user money if they are not on Wi Fi.

5 Use Case Scenarios

5.1 Splash Screen

Use Case ID	UC1	
Use Case Name	Splash Screen	
Actor	Admin/Driver	
Description	This use case describes the splash screen of the application	
Triggering event	Admin/user need to open/run the application	
Preconditions	Users must have a good internet connection.	
Flow of events	Actor	Flow of events
	Driver/A**d**min	1.1 System checks the internet connection. 1.2 System will display the splash screen for a few seconds.
Post conditions	The Actor/Driver sees the login page after the splash screen.	
Exception		

5.2 REGISTERED MAIL

Use Case ID	UC2	
Use Case Name	Registration page	
Actor	User	
Description	This use case describes how the Admin/User enters all the information for the first-time registration to the app.	
Triggering event	User selects the **register** link	
Preconditions	Users must be a new user before registration.	
Flow of events	Actor	Flow of events

	1. User enters the first name 2. A User enters the last name 3. User enters the phone number 4. User enters the email ID. 5. User enters the Username 6. User enters the password. **7.** Clicks **Submit**	1.1. System check if all the information enters by the User will meet the requirements 2.1. System will send all the information to the database 3.1. system saves all the information in the database
Post conditions	The Actor sees the menu page after successful login.	
Exception - Conditions	Database connection Issues	

5.3 Driver/Admin Login

Use Case ID	UC3	
Use Case Name	Driver/Admin Login	
Actor	Driver/Admin	
Description	This use case describes how the Driver/Admin logs in to the app with his mail id and password.	
Triggering event	Driver/Admin selects the **Login** link	
Preconditions	The Driver/Admin must have registered mail id before login to the app.	
Flow of events	Actor	System
	1. Driver/Admin enters his registered mail id or username. 2. Driver/Admin enters his password. 3. Click Login	1 All the information (mail id and password) sends to the database. 2 Database authenticates the information and acknowledges the system as a valid user. 3 System displays the menu page to the user.
Post conditions	The Actor sees the menu page after successful login.	
Exception	Incorrect Credentials/Database connection Issues	

5.4 Driver/Admin Reset password

Use Case ID	UC4	
Use Case Name	Driver/Admin Reset password	
Actor	Driver/Admin	
Description	This use case describes how the Driver/Admin reset his password using his mail id	
Triggering event	Driver/Admin selects the **Forgot Password** link	
Preconditions	The Driver/Admin must have registered mail id before login to the app.	
Flow of events	Actor	System
	1. Driver/Admin enters his registered mail id or username. 2. Click submit	1 All the information (mail id and password) sends to the database. 2 Database authenticates the information and acknowledges the system as a valid user. 3 if the user exists them system sends him a mail regarding password resetting
Post conditions	The Actor sees the menu page after successful login.	
Exception	Database connection Issues	

5.5 Driver/Admin Navigation

Use Case ID	UC5	
Use Case Name	Driver/Admin Navigation	
Actor	Driver/Admin	
Description	Driver/Admin should have a navigation bar	
Triggering event	Driver/Admin clicks on the navigation bar in the screen	
Preconditions	Driver/Admin must be signed in	
Flow of events	Actor	Flow of events

	1.Driver/Admin click the navigation bar. .	1.1. Display the list of the navigation on clicking the nav bar 2.1. Based on the selection from the navigation list, the next activity will be displayed.
Post conditions	Driver/Admin will logout from application after checking his/her profile.	
Exception	Database connection issues	

5.6 Admin trip post

Use Case ID	UC6	
Use Case Name	Admin trip post	
Actor	Admin	
Description	Admin must be able to post the trip information.	
Triggering event	Admin clicks on the Add posts button	
Preconditions	Admin must be logged in	
Flow of events	Actor	Flow of events
	Add posts	1.1. Admin clicks the Add posts button. 21.Admin add the post information 3.1 Admin successfully Posted trip information
Post conditions	Users will logout from the application after adding the posts.	
Exception - Conditions	Admin must provide accurate information.	

5.7 Update trip details

Use Case ID	UC7
Use Case Name	Update trip details
Actor	Admin
Description	Admin must be able to update the trip details.

Triggering event	Admin clicks on the Update trip button	
Preconditions	Admin must enter the new information before updating	
Flow of events	Actor	Flow of events
	1. Admin clicks on the update button 2.Admin adds the updated information 3. Admin clicks on the submit button	1.1. Display the posts information 2.1. Update the database with the changes if any and save the information in the database
Post conditions	Users will logout from the application after checking his/her profile.	
Exception - Conditions	While updating the posts, the details should be correct.	

5.8 View trip status

Use Case ID	UC8	
Use Case Name	View trip status	
Actor	Admin	
Description	Admin can able to view the trip status	
Triggering event	Admin clicks trip status button	
Preconditions	Admin must be logged in	
Flow of events	Actor	Flow of events
	1.Admin clicks on the trip status 2.Admin will view the trip status	1.1. System store the information of the trip in the database

Post conditions	Admin will logout from application after checking his/her profile.
Exception - Conditions	While login the details should be correct.

5.9 Delete trip

Use Case ID	UC9	
Use Case Name	Delete trip	
Actor	Admin	
Description	Admin can able to delete the trips	
Triggering event	Admin clicks on the **Delete trip** button in home screen	
Preconditions	Admin must be logged in	
Flow of events	Actor	Flow of events
	1. Admin view the trips 2. Admin deletes the trip	1.1. System will update the stored information of the apartment in the database
Post conditions	Admin will logout from application after checking his/her profile.	
Exception - Conditions	While updating the profile, the details should be correct.	

5.10 Trip Feedback

Use Case ID	UC10	
Use Case Name	Feedback	
Actor	Driver	
Description	Driver must be able to post/view trip feedback.	
Triggering event	Driver must click on the feedback button	
Preconditions	Driver must be logged in	
Flow of events	Actor	Flow of events
	1.Driver clicks on the feedback form	1.1. System will Store the entire information.
	2.Driver can able to view the feedback	the database
Post conditions	Drivers will logout from application after checking his/her profile.	

Exception - Conditions	Driver must be logged in

5.11 Drive status update

Use Case ID	UC11	
Use Case Name	Driver status update	
Actor	Driver	
Description	Driver must be able to update the trip status	
Triggering event	After logging in the user redirected to the Home page	
Preconditions	Driver must be logged in	Preconditions
Flow of events	Actor	Flow of events
	1. Driver updates the status	1.1. system will send all the updates made by the driver to admin.
Post conditions	Drivers will logout from application after checking his/her profile.	
Exception - Conditions	While updating the status, the details should be correct.	

5.12 View Tip Summary

Use Case ID	UC12	
Use Case Name	View trip summary	
Actor	Driver	
Description	Driver must be able to view the trip summary	
Triggering event	Driver clicks on the trip summary button	
Preconditions	Driver must be logged in	
Flow of events	Actor	Flow of events
	1. Drivers can access their completed trip history and their corresponding pay slips.	1.1. System will fetch the information of the trips by using their unique id
Post conditions	Drivers will logout from application...	
Exception - Conditions	Driver must be logged in	

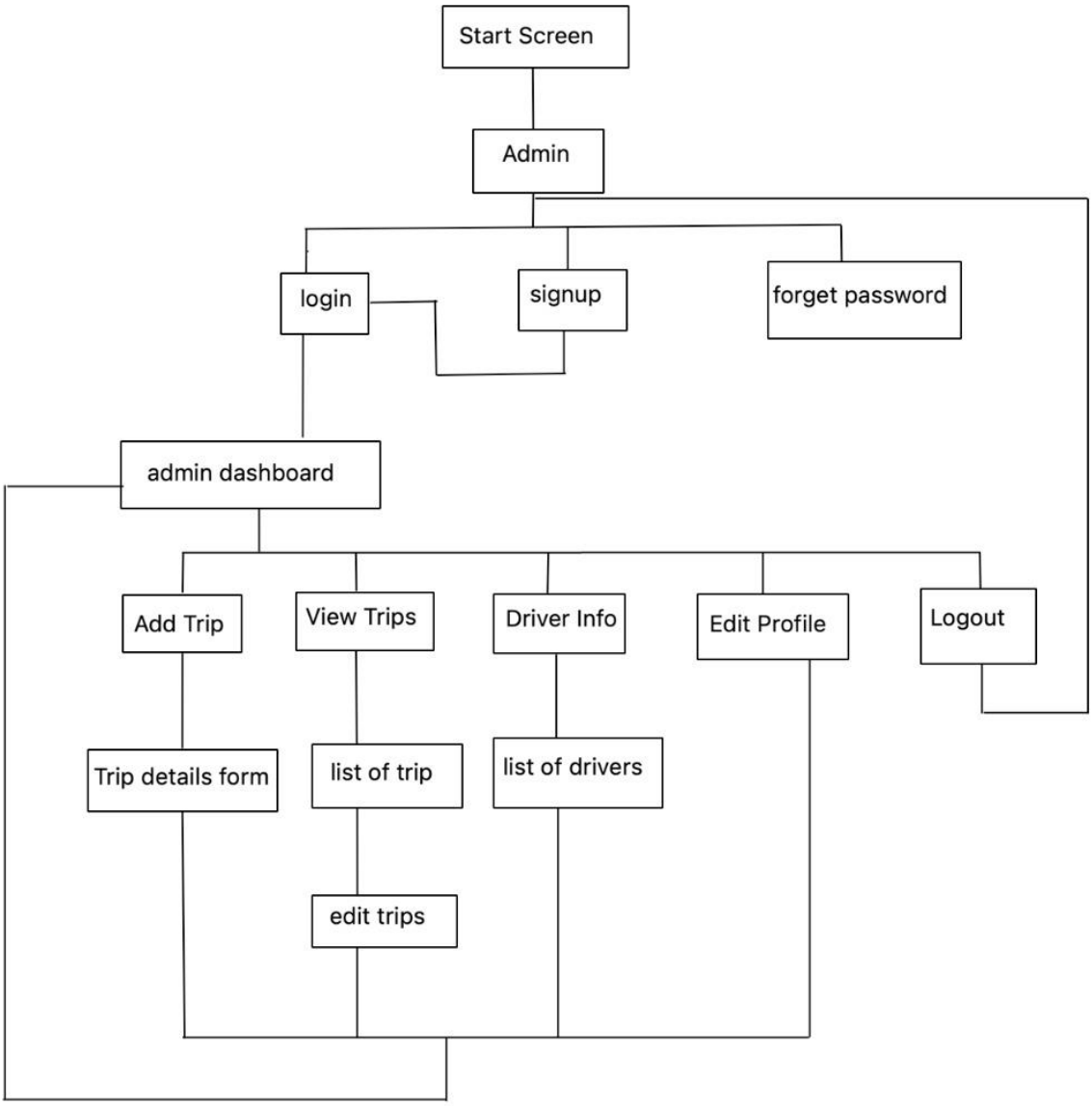
5.13 Logout

Use Case ID	UC13	
Use Case Name	Logout	
Actor	Driver	
Description	Driver can able to logout from the application	
Triggering event	Clicking the logout button	
Preconditions	Driver must be logged in	
Flow of events	Actor	Flow of events
	1.Driver can able to logout	1.1. System will fetch the information of the apartments using the search key at ease
Post conditions	Driver will logout from the application after checking his/her profile.	

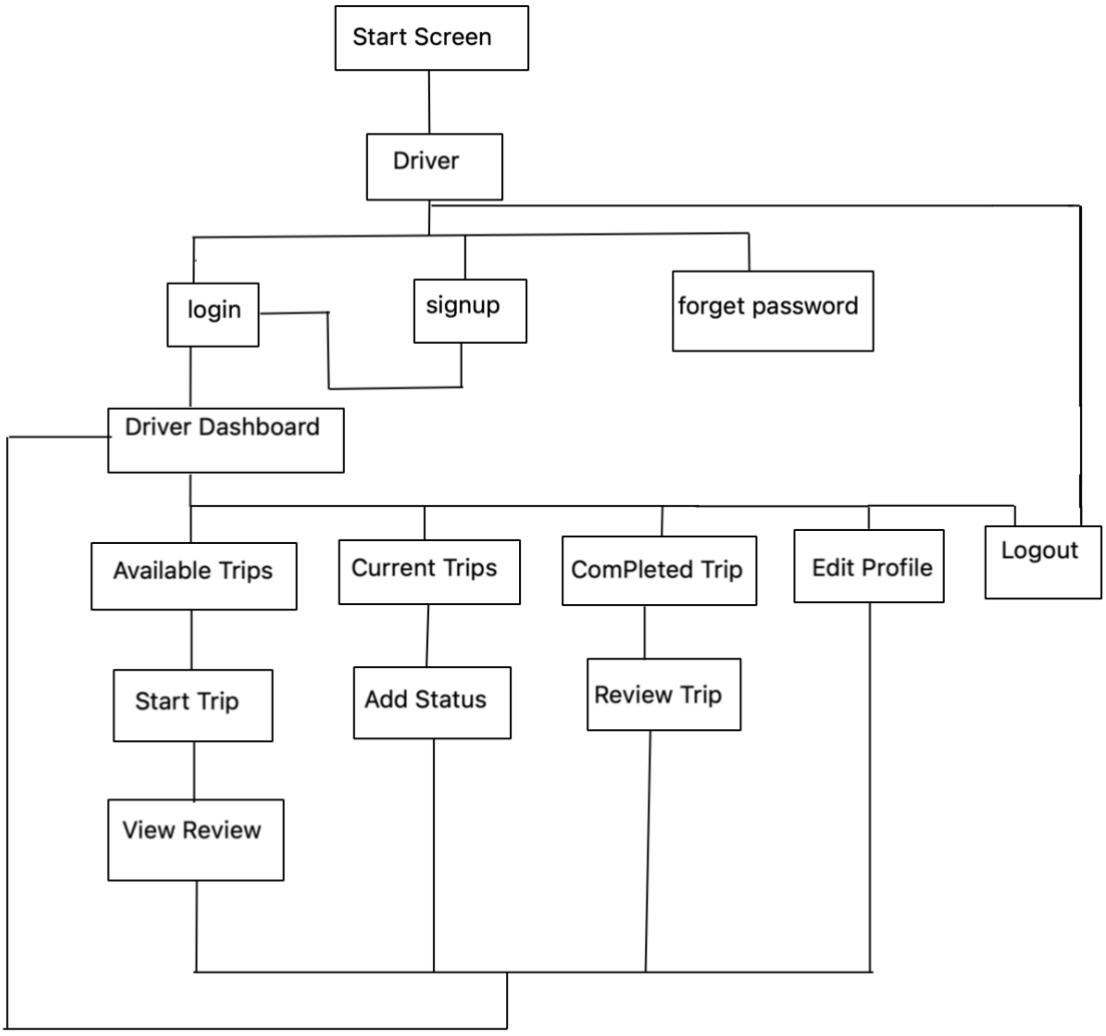
Exception - Conditions	must be logged in

6. Screen Flow

6.1 Admin



6.2 Driver



Paint X lite