



Daffodil
International
University

City Vehicle

By

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This Project report has been submitted in fulfillment of the requirements
for the degree
of Bachelor of Science in Software Engineering .

Department of Software Engineering
DAFFODIL INTERNATIONAL UNIVERSITY
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APPROVAL

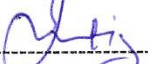
This Project/Thesis titled “City Vehicle”, submitted by **Maliha Momota Dristy**, ID: 151-35-1059 to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

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I hereby declare that, this industrial attachment has been done by me under the supervision Of Fatama Binta Rafiq Lecturer, Department of Software Engineering, Faculty of Science and Information Technology, Daffodil International University. I also declare that neither this report nor any part of this project has been submitted elsewhere for award of any degree.

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ABSTRACT

City Vehicle is a system that can help ordinary people. People who face problem about know vehicle name route fare. This project help people to know this details. People search vehicle by route. Also know the area update. Like hortat, somabesh, andolon, constraction etc. Admin can insert, delete, update vehicle information and area update information.

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Chapter 1

Introduction

1.1 Project Overview

City Vehicle is a simple project that have intention to make easier to find vehicle. It is a mobile application. People are using android device every step of their life and it's easier to use the application. People can search vehicle and find the best vehicle with fare and route. People also know the area update. If any area have hortol, somabesh, andolon etc.

1.2 Project Purpose

The main objective of this document is to illustrate the requirement of the project City vehicle. The document gives the detailed description of the both functional and non-functional requirements proposed by the client. The purpose of this project is to provide a friendly environment to maintain the details of vehicle and routes. The main purpose of this project is to maintain search vehicle and vehicle details of different routes. The project describes the hardware and software interface requirements using ER diagrams and UML diagrams.

1.2.1 Background

In Dhaka city about 10k people lived and 10k route and vehicles. So that people don't know which vehicle is available for this route or this route. People also don't know the vehicle fare. It is a problem and waste of time to looking for vehicle.

1.2.2 Benefits & Beneficiaries

- Save time
- Easy to use
- Friendly user interface
- Updated news of area

1.3 Project Features

User Module

- Registration
- Login
- Search Vehicle
- Show Vehicle Information
- Show Area Update

Admin Module

- Manage Vehicle Information
- Manage Area Update

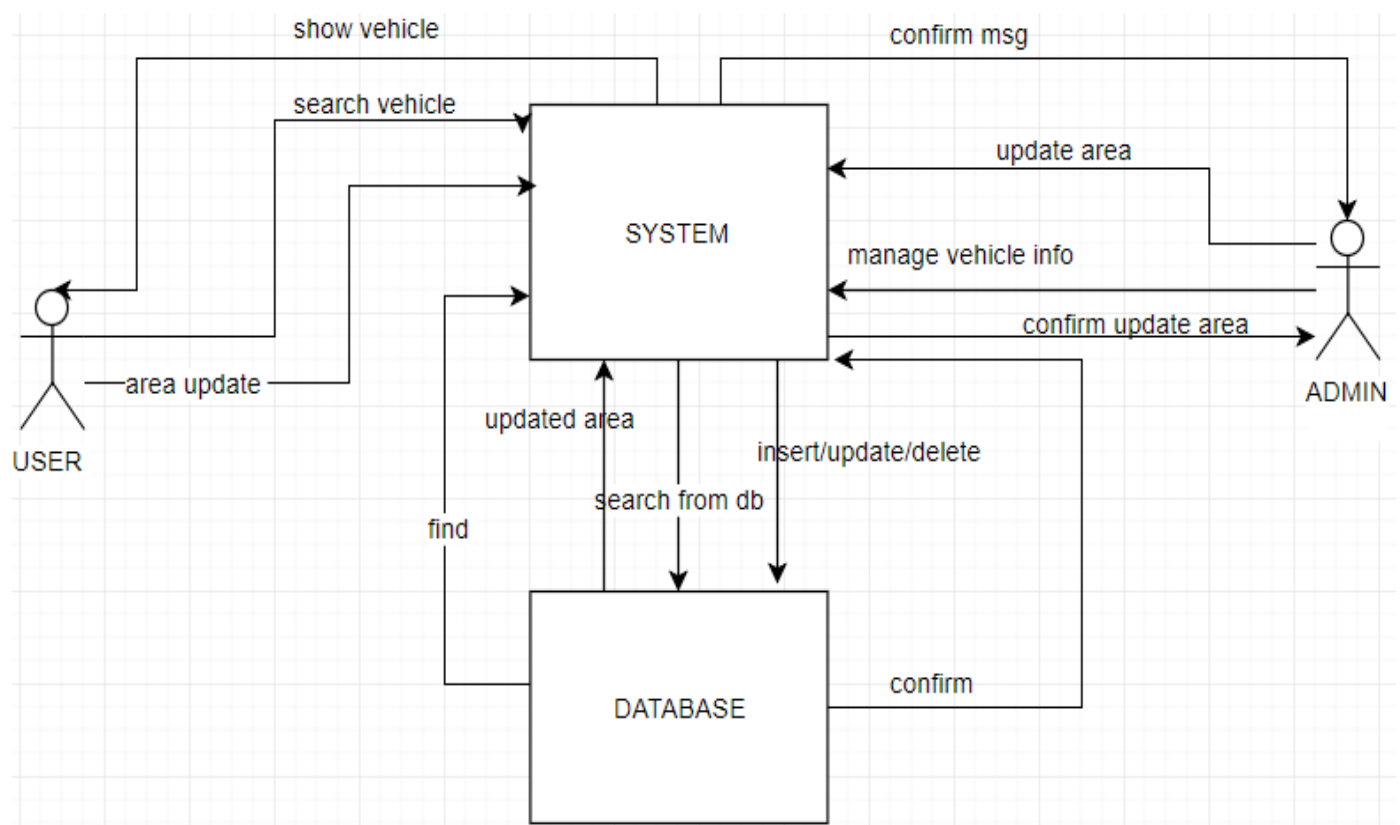
1.4 Stakeholders

There are many members associate with this project. They have helped to develop the system directly or indirectly.

Internal stakeholders

- User
- Admin
-

1.5 Proposed system model



1.6 Schedule

For developing project or something else, schedule helps for proper planning. I also make a schedule for developing and executing my project properly.

1.6.1 Gantt chart

Activities	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16
Planning																
Requirements																
QA-1																
System Design																
Implementation-1																
QA-2																
Implementation-2																
Testing																
Delivery																

1.6.2 Release Plan/Milestone

Milestones, a timeline of a project, will clarify the task. This project milestones are as follows:

Task No	Task Name	Time
01	Requirements gathering and analysis	2 week
02	Project Proposal	1 week
03	Database Design	2 Week
04	UI Design	2 Week
05	Implementation	3 Week
06	Testing	2 week
07	Evaluation	1 Week

1.7 Software Deliverable

The main deliverables of this project is the complete system and the system document that will include

- Software requirements and specification
- Software design document

1.8 Project Scope

City Vehicle is an application that is basically updating the search system into an internet-based application so that the user can know the details of the vehicle information like routes, fare, availability.

The project is specifically designed for the use of the users. The product will work as a complete user interface for search vehicle and listing the vehicle details for ordinary users.

The project can be easily implemented under various situations. We can add new features as and when we require, making reusability possible as there is flexibility in all the modules. The language used for developing the project is JAVA as it is quite advantageous than other language in terms of performance, tools available, cross platform compatibility, libraries, cost, and development process.

Chapter 2

Software Requirement Specification

2.1 Functional Requirement

The whole project have to develop on the basis of the following requirements.

2.1.1 Registration

FR-01	Registration
Description	This system allows to user to registration the system using name, email, address, phone number, password and become a valid user.
Stakeholders	User

2.1.2 Login

FR-02	Login
Description	System allows to user to login the system to access the relevant functions according to the user role. To login to the system user can search vehicle and show area update.
Stakeholders	User

2.1.3 Search Vehicle

FR-03	Search Vehicle
Description	System allows to a valid user to search vehicle by route and show the details of vehicle and fare for the specific route.
Stakeholders	User, Admin

2.1.4 Vehicle Information

FR-04	Vehicle Information
Description	System allows the user to show the details of vehicle information when user log into the system and request to show vehicle information.
Stakeholders	User

2.1.5 Manage Vehicle Information

FR-05	Manage Vehicle Information
Description	System allows admin to insert update delete the vehicle information from the system and database. This is CRUD operation.
Stakeholders	Admin

2.1.6 Area update

FR-06	Area Update
Description	System to show area's news or update like hortat, somabesh, andolon etc. to user. Admin can update the area's news.
Stakeholders	Admin, User

2.2 Non Functional Requirement

2.2.1 Security

Personal details and admin, login id & password, must be remain confidential.

2.2.2 Availability

The website is available for 24 hours a day. It is always available for stakeholder.

2.2.3 Usability

It has good graphical user interface. It is user friendly. So user feel easy to use.

2.3 Performance Requirement

It's very important to maintain the performance of the project. To ensure a good performance, this project have to meet some requirements which will ensure a good performance.

2.3.1 Speed and latency requirements

While inserting or viewing the system in the mobile application, system need a minimum amount of speed to perform the task.

SLR-01	The system will be faster
Description	While the user and admin run the application then the application will be up. It also depends on internet connection.
Stakeholders	User

2.3.2 Precision and accuracy requirements

System have to ensure the precision and accuracy of the data

SLR-02	Data accuracy
Description	Data should have to accurate at the time of inputting. If the data will not accurate system will not allow to save the data. Like registration, login when user run the application first time they must register with valid data input. Admin insert vehicle data is correctly otherwise system will not allow to save.
Stakeholders	User, Admin

2.3.3 Capacity Requirements

System is able to manage all the inserting data of audit person

SLR-03	The system will manage all the inserting data in database.
Description	User details, vehicle details, area information will be stored in the database.
Stakeholders	Admin

2.4 Dependability requirements

By the terms of dependability, it does not mean that this project is totally rely on something. Here, dependability means the running time of this project.

2.4.1 Reliability and Availability

In order to support global and smooth operations the system must be available around the clock. On the other hand most services in this system are not mission-critical.

RAR-01	The system must be available 24x7
Description	<ul style="list-style-type: none"> • The system must be available 24 hours in a day • The system must be updated regularly • The system must generate report and other things un time

2.4.2 Robust and fault tolerance requirements

In every system, there will have some person for destroying something. System will have to handle this type of person easily.

RFT-01	The system handles over access and system errors
Description	Sometimes multiple user can over access to this system. The system can handle multiple user access

2.4.3 Safety critical requirements

There are no specific safety critical requirements.

2.5 Security requirements

There are no access requirements beside those that have been outlined in the below:

SR-1. Log in as a user

SR-2. Log out as a user

To get access to this system or a specific module the system must provide a central authentication mechanism. In order to prevent anyone to exploit stolen participants all participants password must be encrypted in hash process.

2.5.1 Access requirements

To get access to the system, the system provides authorization/authentication way. This system uses various modules.

AR-1	The system provides security strategies.
Description	The system is designed in way that allows all modules to access a mechanism that provides security services.
Stakeholders	User

2.5.2 Integrity requirements

To protect credentials of user from being stolen, all passwords are stored in encrypted form. The Requirements significantly reduces the value of stolen user credentials, it's not easy to decrypt the password.

2.5.3 Privacy requirements

The system provides a protection of the database in the server. However, the system will have to increment this level of protection because of the personal data made available on the system & the larger share of people that will be having access to it through the system's registration. The user's privacy will be granted by the limited access that the log in process is going to give to the database.

PR-01	All data will be protected
Description	The main requirement in the context is the generation of participant's data for analysis.
Stakeholders	Admin

2.6 Look and Feel

There should not exist any unnecessary things on this project.

2.6.1 Appearance Requirements

It should be clear to admin which fields need to be filled and which can be left blank in this system.

AR-01	Labels of mandatory fields must be bold
Description	Labels of mandatory fields must be bold to identify them as being of mandatory.
Stakeholders	User

2.6.2 Style Requirements

User interface will be mobile application. For styling the interface and making lucrative, I need to use Layout framework, v4 compact library, v4 fragment library, v7 cardview, v7 recyclerview, vector drawable library.

SR-01	The look and feel must be controllable using style sheet.
Description	The styling of the elements of the android application user interface will be defined using layout framework, v4 compact library, v4 fragment library, v7 cardview v7 recyclerview vector drawable library.
Stakeholders	User , Admin

2.7 Operational and Environmental Requirements

Operational and environmental requirements is very important because this project may not work in every environment and its operation may not accurate in every time.

2.7.1 Expected Physical Requirements

There is no specific expected physical requirements.

2.7.2 Requirement for Interfacing with Adjacent System

There is no specific interfacing with adjacent system requirements.

2.7.3 Release Requirements

There are no specific release requirements but in the project schedule section it was described briefly.

Chapter 3

System Analysis

3.1 Introduction

Design is the first step in the development phase for any techniques. Software system design is important thing for an application. If design is not proper then application could be problematic. System should have good design. Software design is a process to transform user requirements into some suitable form, which helps the programmer in software coding and implementation.

3.2 Use Case Diagram

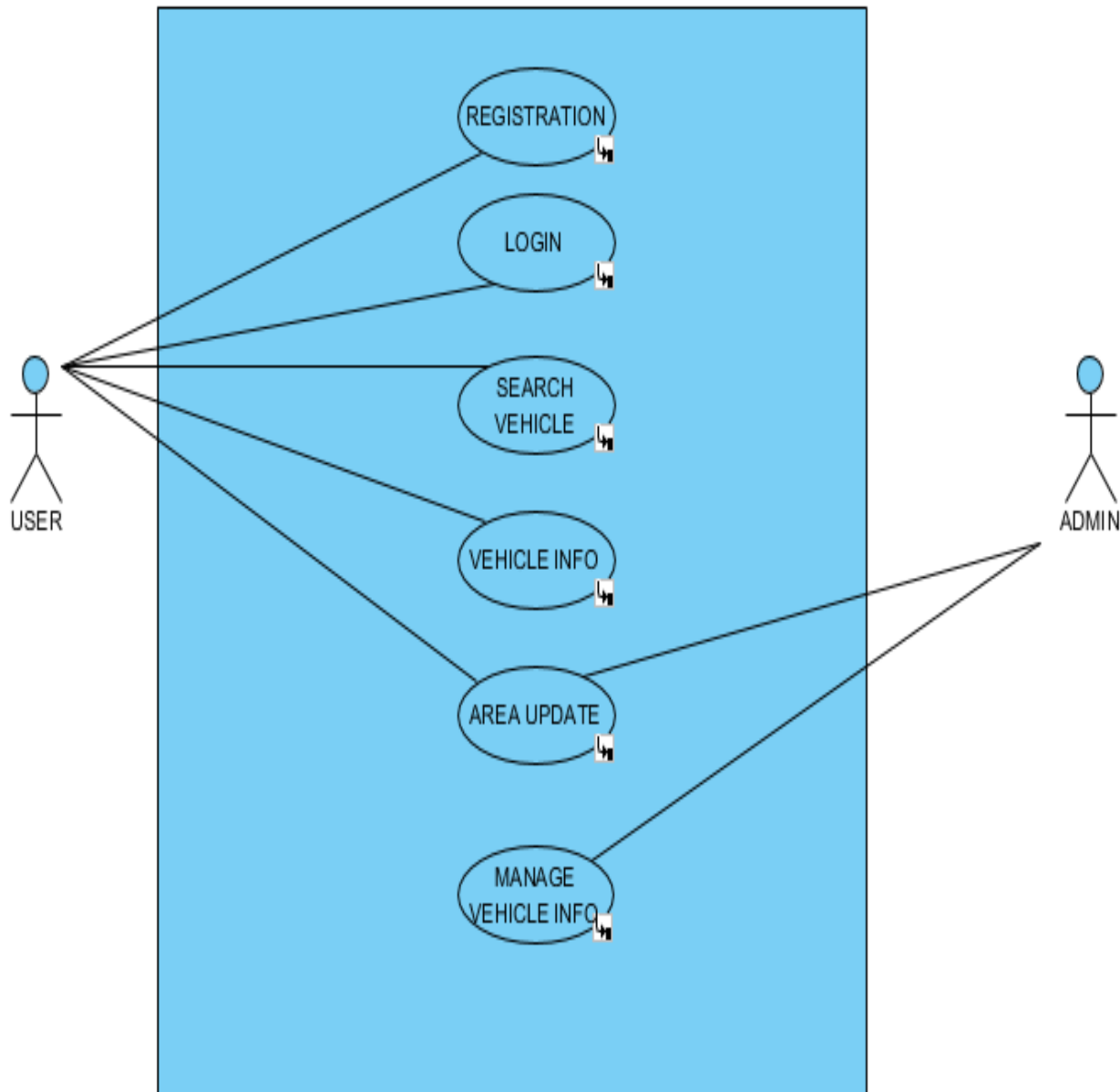


Diagram 1: Use Case

3.3 Use case Description

3.3.1 Registration

Use Case ID	UCID1
Use Case Name	Registration
Created By	Maliha Momota Dristy
Date	25 Nov 2018
Description	This use case allows to user to registration the system using name, email, address, phone number, password and become a valid user.
Primary Actor	User
Secondary Actor	None
Main Flow	Registration is successful
Pre-condition	User provide valid information
Post-condition	The system display the relevant homepage

3.3.2 Login

Use Case ID	UCID2
Use Case Name	Login
Created By	Maliha Momota Dristy
Date	25 Nov 2018
Description	This use case allows to user to login the system to access the relevant functions according to the user role. To login to the system user can search vehicle and show area update.
Primary Actor	User
Secondary Actor	None
Main Flow	Login is successful
Pre-condition	User has to have a valid account
Post-condition	The system display the relevant homepage

3.3.3 Search Vehicle

Use Case ID	UCID3
Use Case Name	Search Vehicle
Created By	Maliha Momota Dristy
Date	25 Nov 2018
Description	This use case allows to a valid user to search vehicle by route and show the details of vehicle and fare for the specific route.
Primary Actor	User
Secondary Actor	None
Main Flow	Show the vehicle list
Pre-condition	<ol style="list-style-type: none"> 1. User login to the system 2. Search by route
Post-condition	The system display the specific vehicle and fare.

3.3.4 Vehicle Information

Use Case ID	UCID4
Use Case Name	Vehicle Information
Created By	Maliha Momota Dristy
Date	25 Nov 2018
Description	The use case allows the user to show the details of vehicle information when user log into the system and request to show vehicle information.
Primary Actor	User
Secondary Actor	Admin
Main Flow	Show the details vehicle list with fare and route
Pre-condition	<ol style="list-style-type: none"> 1. User login to the system 2. Search by route
Post-condition	The system display the details of vehicle list <ol style="list-style-type: none"> 1. Route 2. Fare 3. Status –sitting/local 4. Type – bus/lagona/auto

3.3.5 Area Update

Use Case ID	UCID5
Use Case Name	Update Area
Created By	Maliha Momota Dristy
Date	25 Nov 2018
Description	This use case allows to show area's news or update like hortat, somabesh, andolon etc. to user. Admin can update the area's news.
Primary Actor	User
Secondary Actor	Admin
Main Flow	Show the area update
Pre-condition	<ol style="list-style-type: none"> 1. User login to the system 2. Show area update 3. Admin access the system
Post-condition	The system display the relevant area update page

3.3.6 Manage Vehicle Information

Use Case ID	UCID6
Use Case Name	Manage Vehicle Information
Created By	Maliha Momota Dristy
Date	25 Nov 2018
Description	This use case allows admin to insert update delete the vehicle information from the system and database. This is CURD operation.
Primary Actor	Admin
Secondary Actor	None
Main Flow	CURD operation
Pre-condition	Admin access the system
Post-condition	This system display the dashboard page.

3.4 Activity Diagram

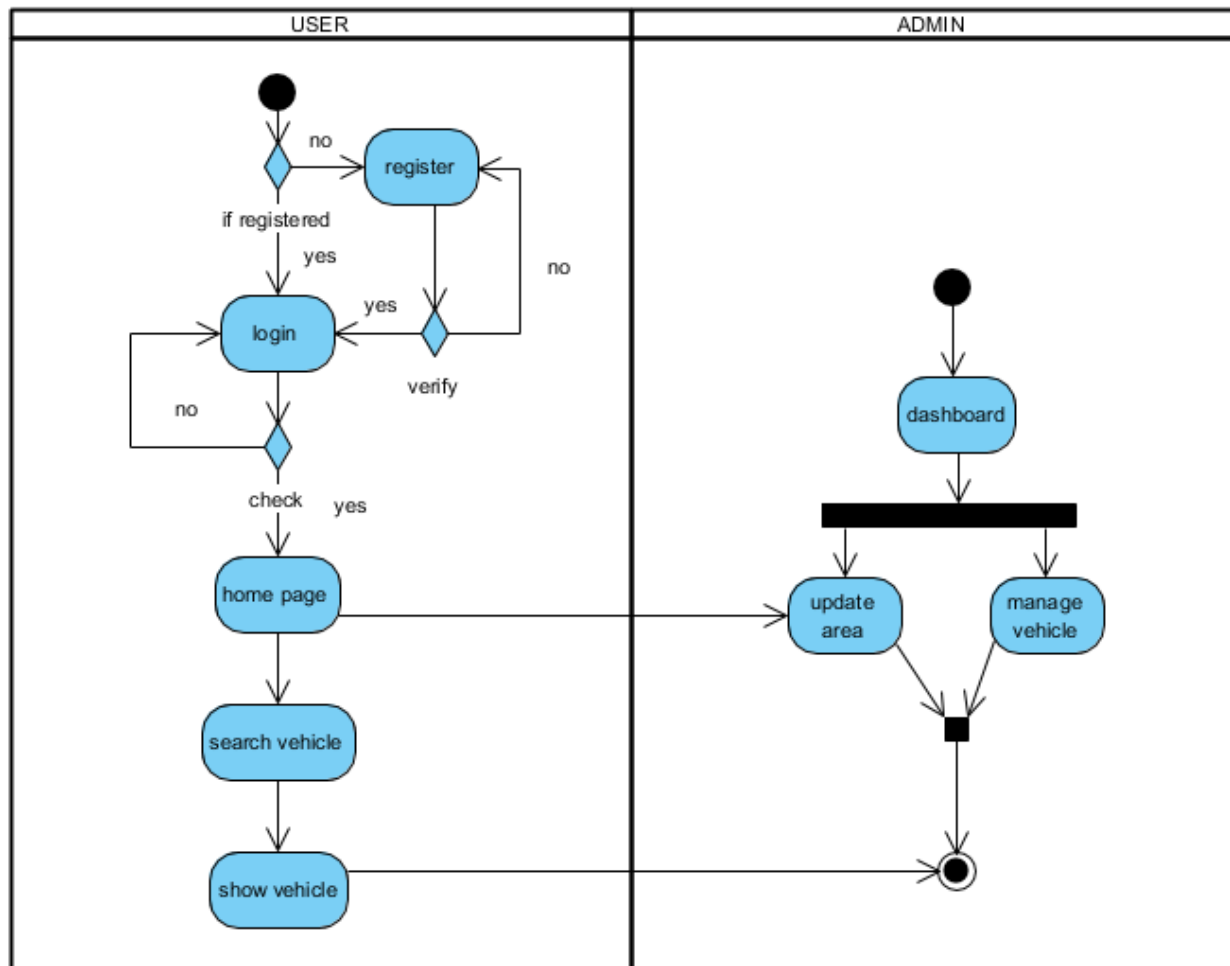


Diagram 2: Activity

3.5 System Sequence Diagram

3.5.1 For Use Case Registration

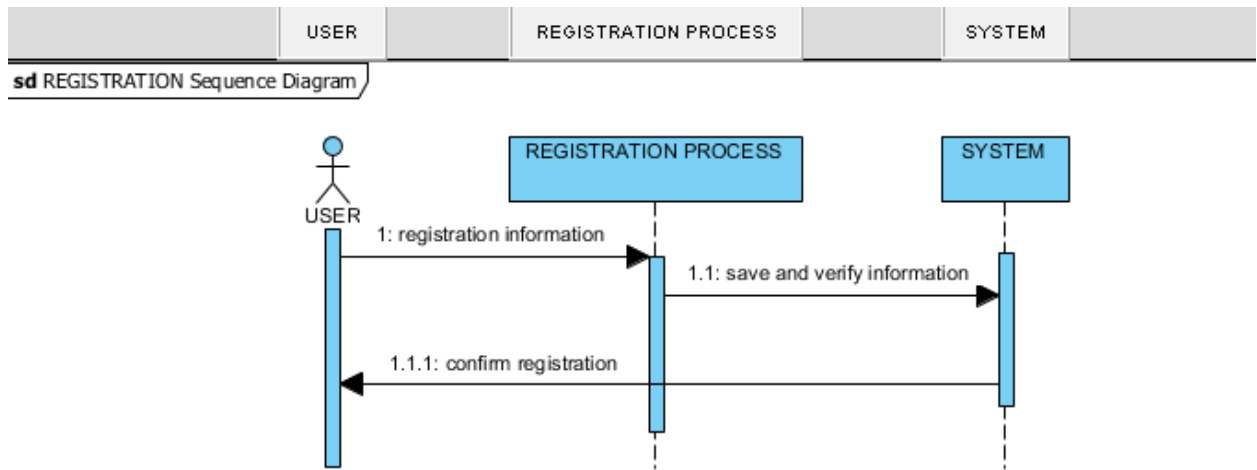


Diagram 3: Registration Sequence Diagram

3.5.2 For Use Case login

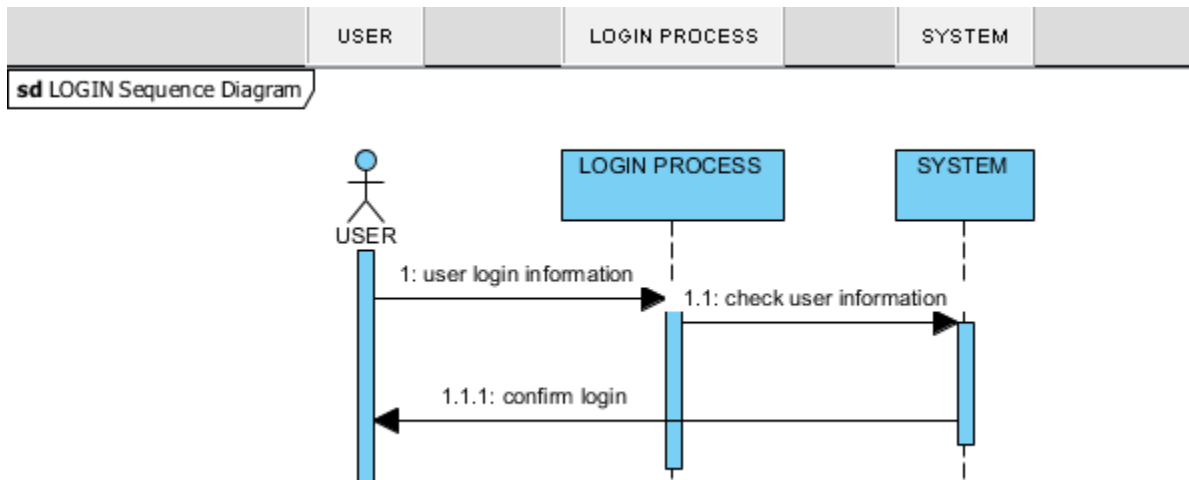


Diagram 4: Login Sequence Diagram

3.5.3 For Use Case search Vehicle

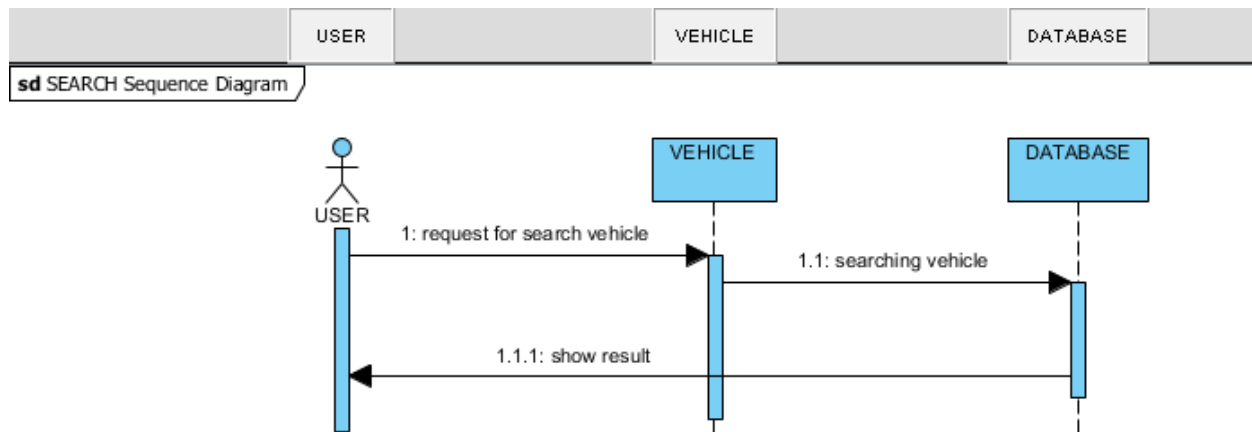


Diagram 5: Search Sequence Diagram

3.5.4 For Use Case Vehicle Information

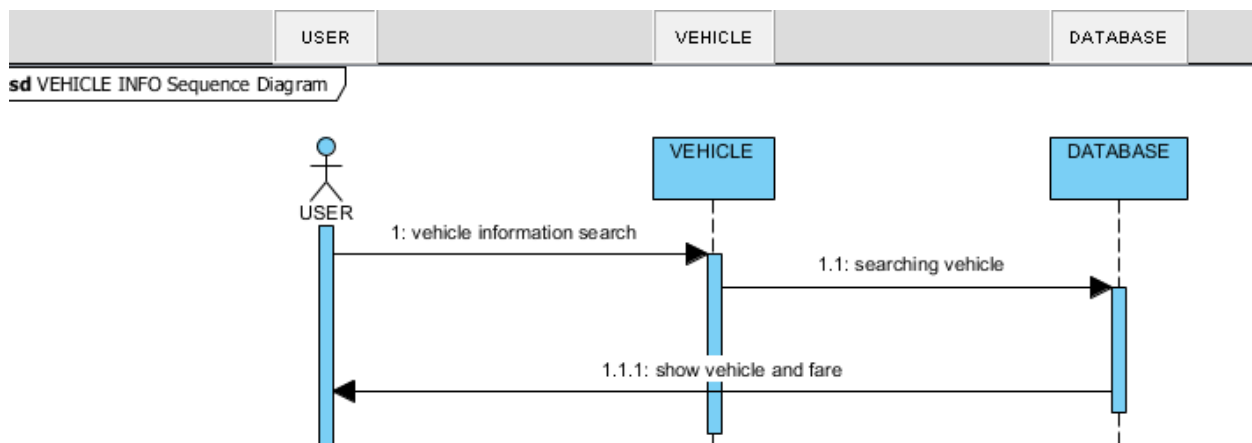


Diagram 6: Vehicle Information Sequence Diagram

3.5.5 For Use Case Update Area

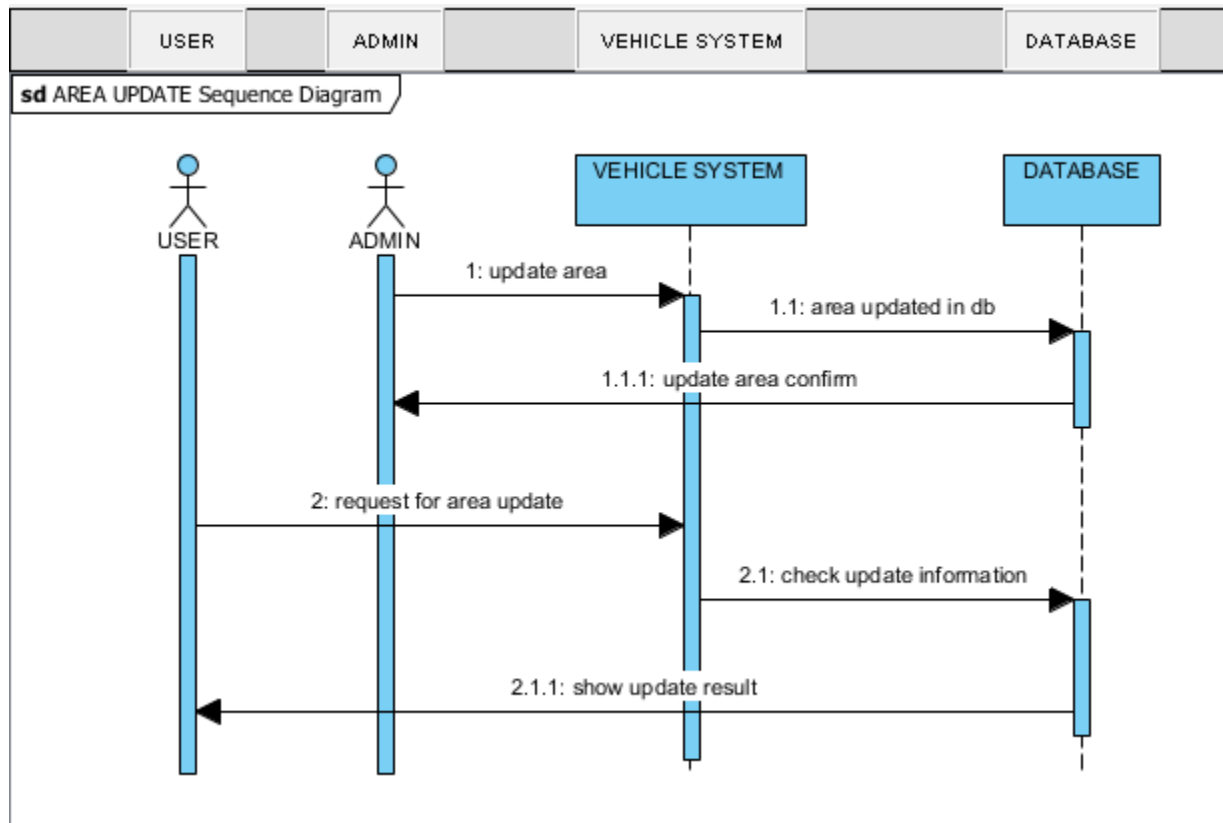


Diagram 7: Update Area Sequence Diagram

3.5.6 For Use Case Manage Vehicle Information

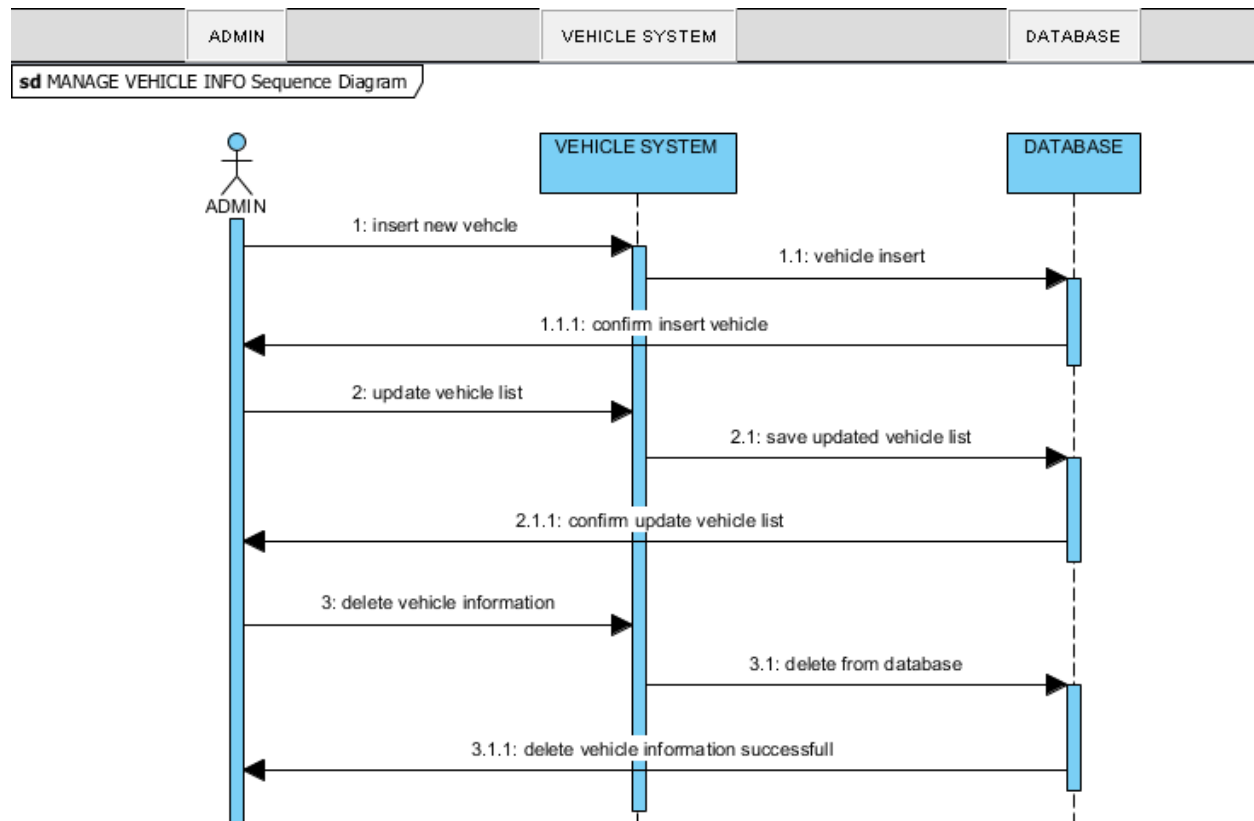


Diagram 7: Manage Vehicle Information sequence Diagram

3.6 Data Flow Diagram (DFD)

3.6.1 Context Diagram (Level-0 DFD)

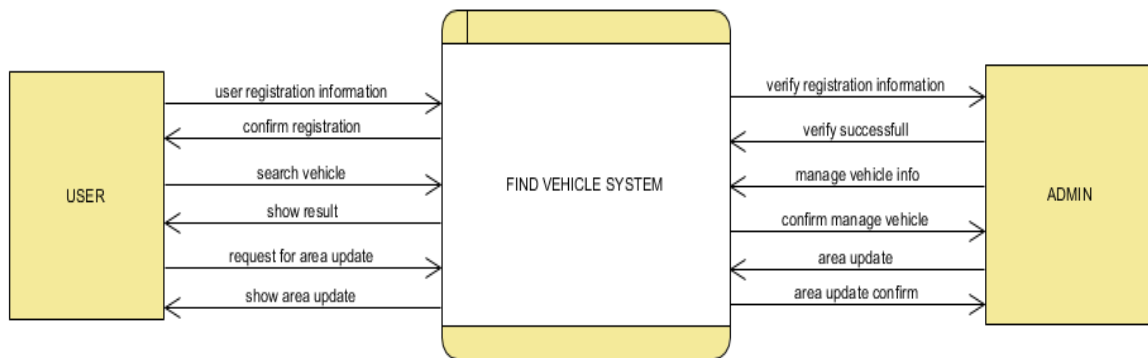


Diagram 8: DFD Level-0

3.6.2 Level-1

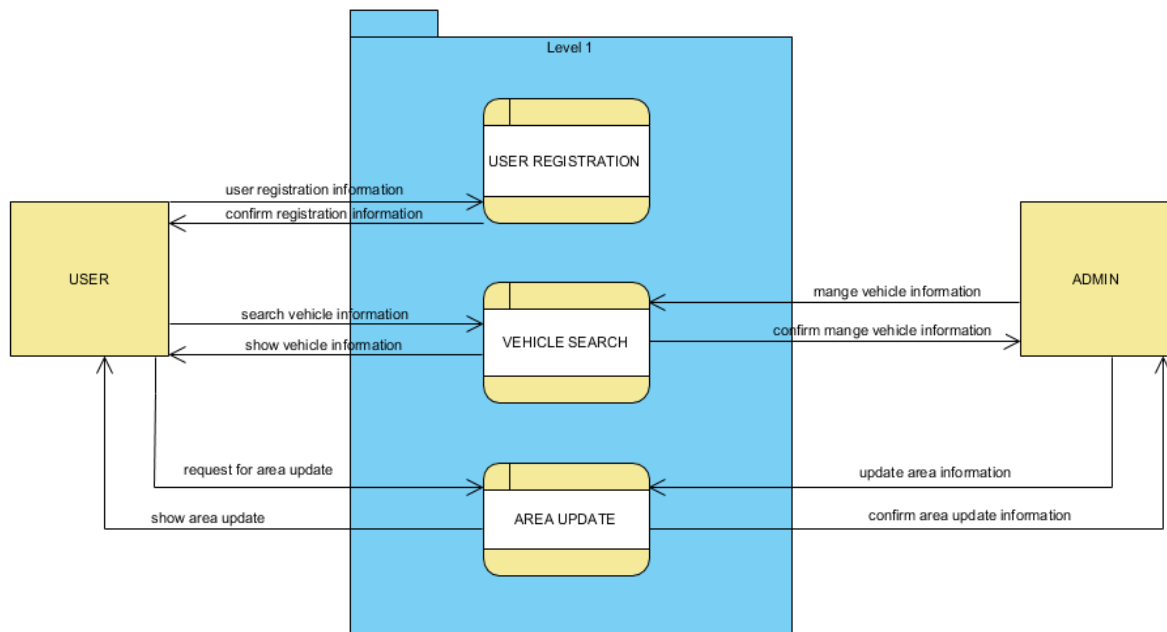


Diagram 9: DFD Level-1

Chapter 4

System Design Specification

4.1 Class Responsibilities Collaboration

4.1.1 Registration class

Registration	
Full name User id Email Phone no Address Password	User

4.1.2 User Class

User	
User id User name	Vehicle information Area Route

4.1.3 Admin Class

Admin	
Admin id Admin name	Area Vehicle info Route

4.1.4 Vehicle Information Class

Vehicle Information	
Vehicle name Vehicle type Vehicle status	User Admin Route

4.1.5 Route Class

Route	
Route id Route name Fare	Vehicle Admin User

4.1.6 Area Class

Area	
Area name	User
Area status	Admin

4.2 Class Diagram

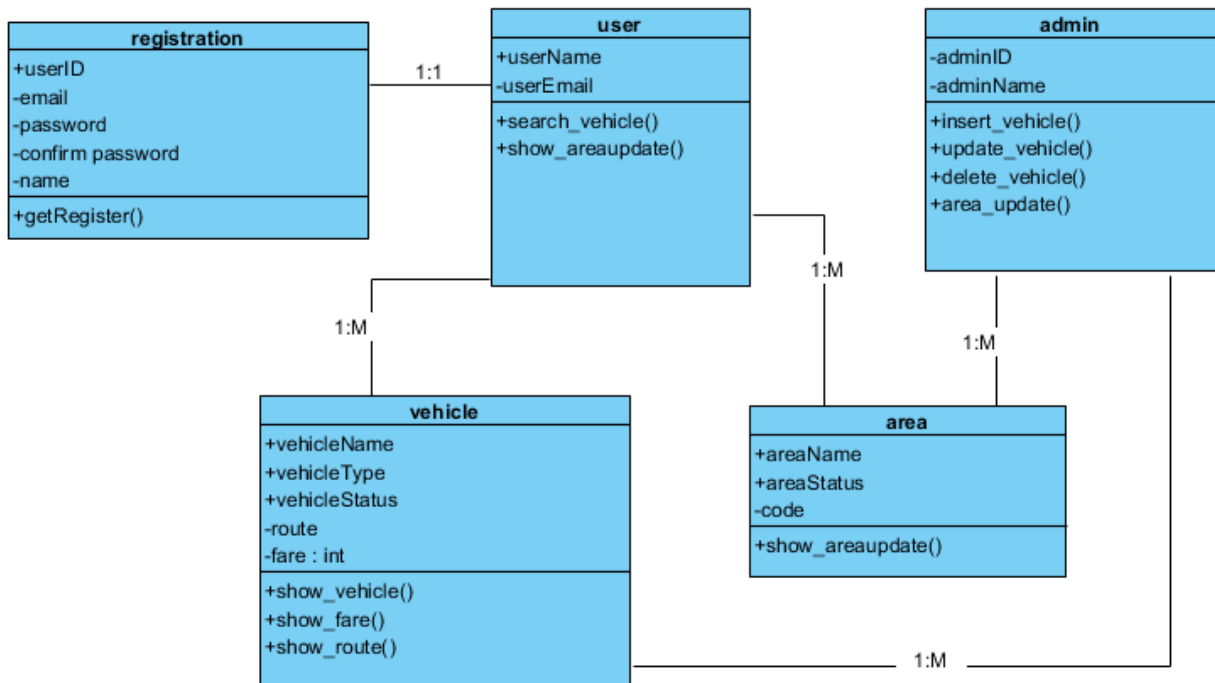


Diagram 8: Class Diagram

4.3 Database design Diagram

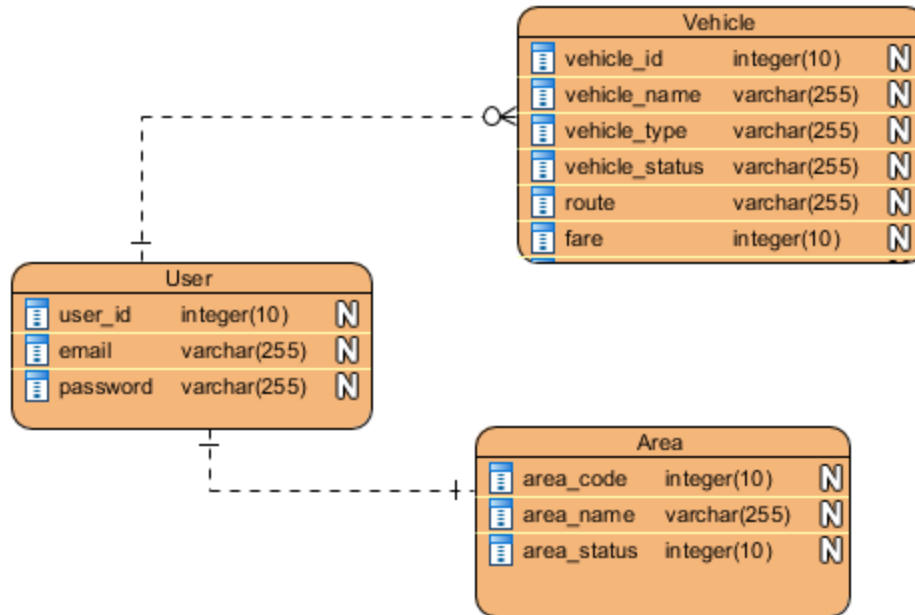


Diagram 9: ER Diagram

4.4 Development Tools and Technology

4.4.1 User Interface and Technology

- Android studio design library

4.4.2 Implementation Tools and Platform

- Operating System Windows 10
- Platform Android Studio
- Language JAVA
- Database Firebase and SQLite

Chapter 5

System Testing

5.1 Importance of Testing

- Testing is find errors on this application program.
- It is used for both validation and verification to develop a product.
- It is used for effective error identification.
- It make sure customer reliability and satisfaction.
- Make sure quality of this application.
- Make sure great performance of this application.
- Required to stay in software business.

5.2 Testing Feature

Feature testing is the process of making changes in software system to add one or more new features or to make modifications in the already existing features. Each of these feature is said to have a characteristics that is designed to be useful, intuitive, and effective.

5.3 Testing Strategies

A testing strategy is a general approach to the testing process rather than a method of devising particular system or component tests. Different testing strategies may be adopted depending on the type of system to be tested and the development process used.

5.4 Testing Environment (hardware/software requirements)

- Test data
- Mobile Application
- Firebase database , SQLite
- Operating System(OS)

5.5 Test Cases

5.5.1 Test Case Module-1 Registration

Test Case ID: ATC1	Test Design by: Maliha Momota Dristy
Test Priority: High	Test Design Date: 11/12/2018
Module Name: Registration	Test Execute By: : Maliha Momota Dristy
Description: This section covers the functionality of registering new users.	Test Execute Date: 11/12/2018

Precondition: User has no precondition

Dependencies: Enter input required information

Step	Test Case	Test Data	Expected Result	P/F	Actual Result
01	Enter empty value for any required Field		Display error message	Pass	Display error Message
02	Enter Non-numeric value in Phone No field	sdjfh	Display error Message "Enter valid Number"	Pass	Display error Message "Enter valid Number"
03	Enter different email format instead of xxx@xxx.xx	Gmail.com-ptz.dm	Display error Message "Invalid email address"	Pass	Display error Message "Invalid email address"
04	Enter password less than 6 character long	12345	Password length must be 6 character	Pass	Display error message "Password length must be 6 character"
05	New user registration	NA	Display message "submitted successfully"	Pass	Display message "submitted successfully"

5.5.2 Test Case Module-2 Login

Test Case ID: ATC1	Test Design by: Maliha Momota Dristy
Test Priority: High	Test Design Date:11/12/2018
Module Name: Login	Test Execute By:Maliha Momota Dristy
Description: This section covers the functionality of login register users.	Test Execute Date:11/12/2018

Precondition: User has no precondition

Dependencies: Enter input required information

Step	Test Case	Test Data	Expected Result	Actual Result	P/F
01	Enter empty value for username and password	NA	Please enter username and password	Please enter username and password	Pass
02	Enter correct value for username and password	User name and password	Accept	Accept"	Pass
03	Enter wrong value for username and password	User name and password	Invalid login Attempt	Invalid login Attempt	Pass
04	After giving input click submit button	NA	Direct on Home Page	Direct on Home Page	Pass

5.5.3 Test Case Module-3 Vehicle search

Test Case ID: ATC1	Test Design by: Maliha Momota Dristy
Test Priority: High	Test Design Date: 11/12/2018
Module Name: Vehicle search	Test Execute By: : Maliha Momota Dristy
Description: This section covers the functionality of searching.	Test Execute Date: 11/12/2018

Precondition: User must be registered already.

Dependencies: Input correct user name & password.

Step	Test Case	Test Data	Expected Result	Actual Result	P/F
01	Search by route	Uttara to Dhanmondi	Vehicle name, fare, type and status.	Vehicle name, fare, type and status.	Pass
02	Enter Empty value	NA	Display message "Please enter input"	Display message "Please enter input"	Pass
03	Enter wrong input	Uwtyw kdjhvsk	Display Message "No vehicle found"	Display Message "No vehicle found"	Pass
04	Enter out of Dhaka city route	Uttara to Mymanshing	Display Message "Out of Dhaka city"	Display Message "Out of Dhaka city"	Pass

Chapter 6

User Manual

6.1 Login Page

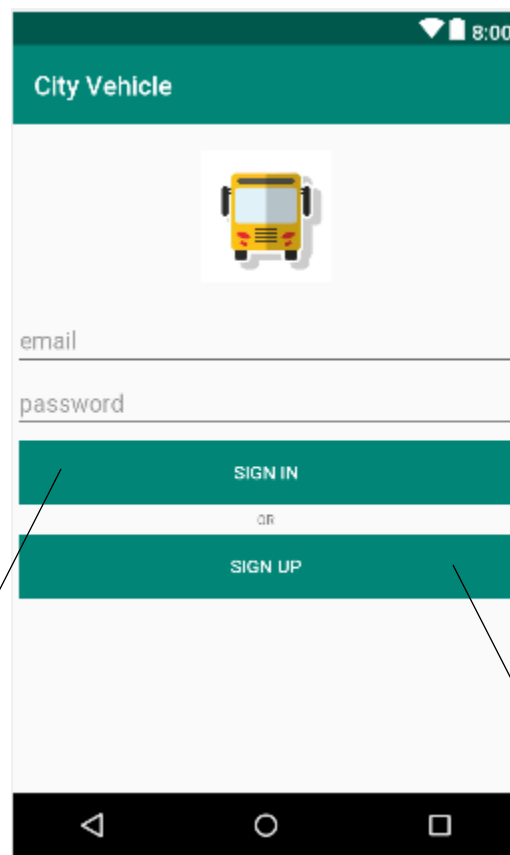


Figure 1: Login Page

Enter email, password and click the sign in button user can login to the system.

New user must be sign up to this system.

6.2 Registration Page

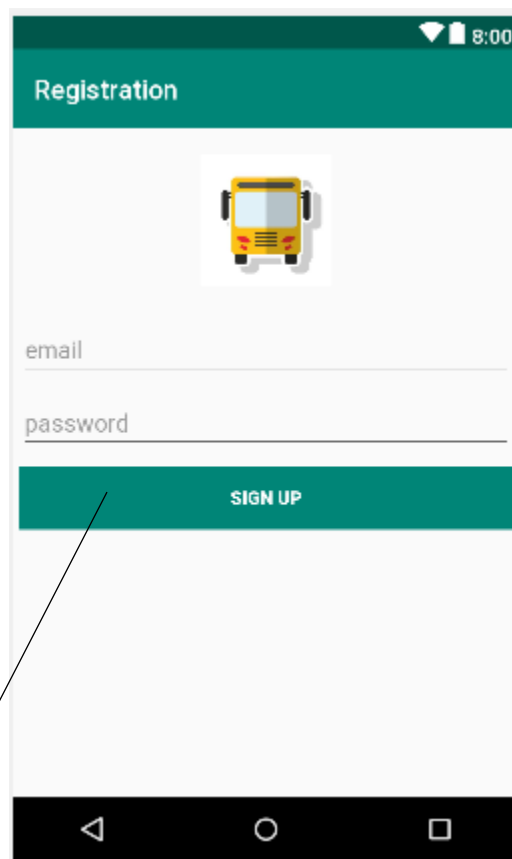


Figure 2: Registration Page

Creating an account user enter email, password and click the sign up button user register confirm and direct go to the home page.

6.3 Home Page

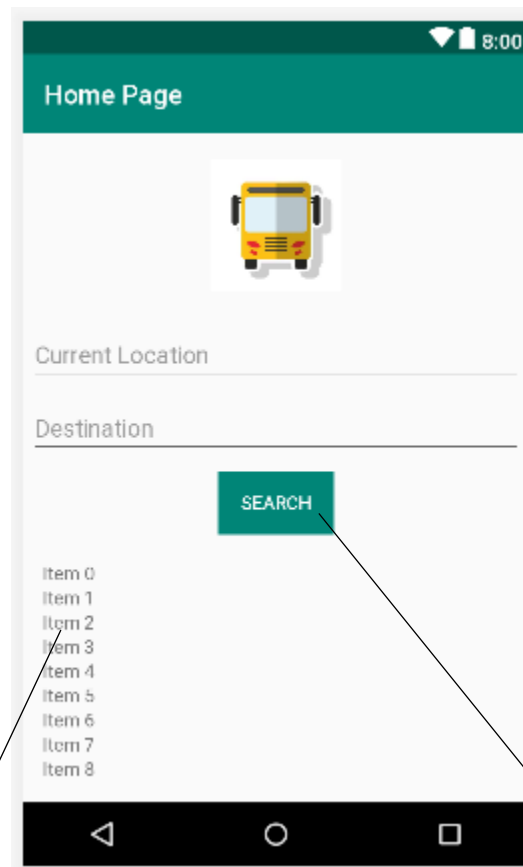


Figure 3: Home Page

Enter current location and destination then click search button user can show the vehicle info.

It is a recycler view. The vehicle shown below here.

6.4 Dashboard Page

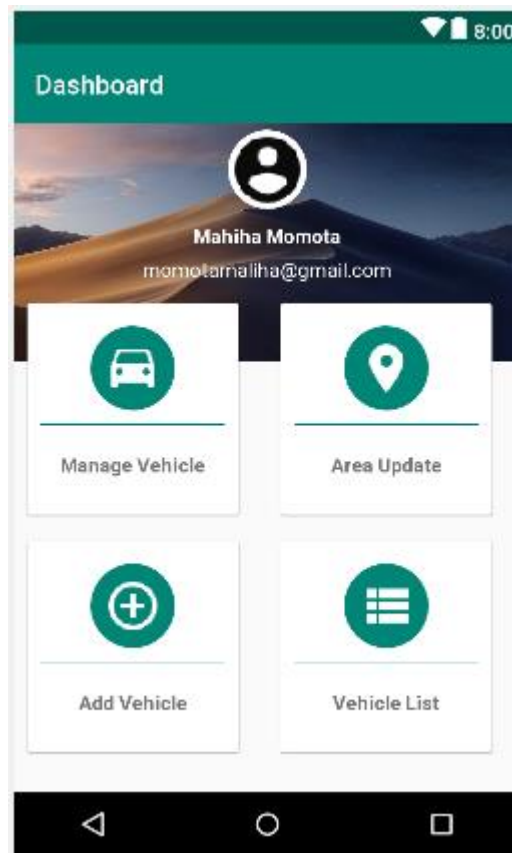


Figure 4: Dashboard Page

This is the Admin Page or Dashboard. Only admin can use this page and done work by clicking this card view and move another activity.

6.5 Vehicle List Page

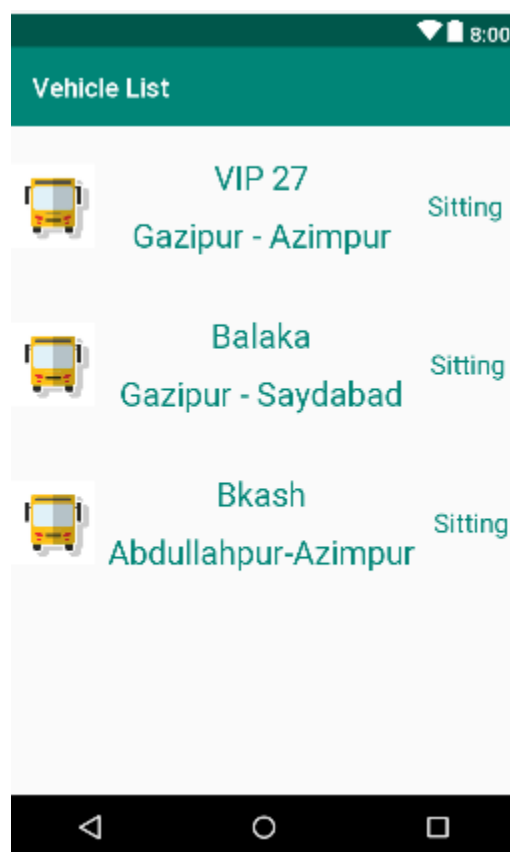
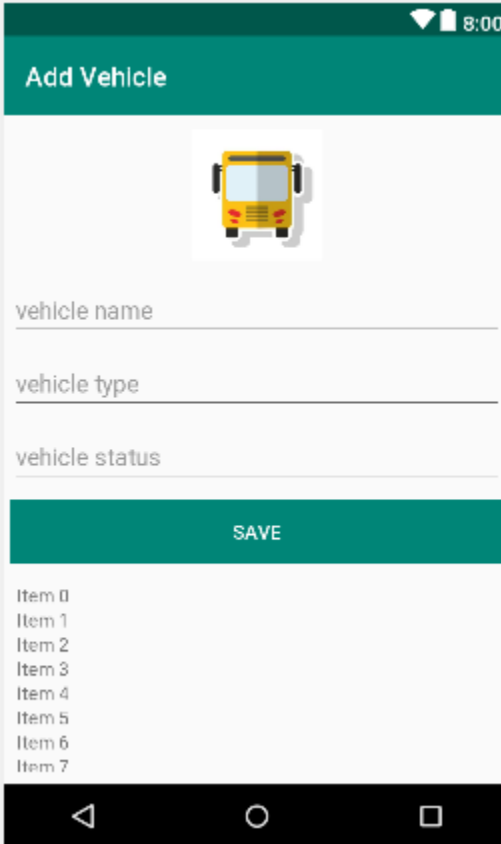



Figure 5: Vehicle List Page

6.6 Add Vehicle Page



8:00

Add Vehicle



vehicle name

vehicle type

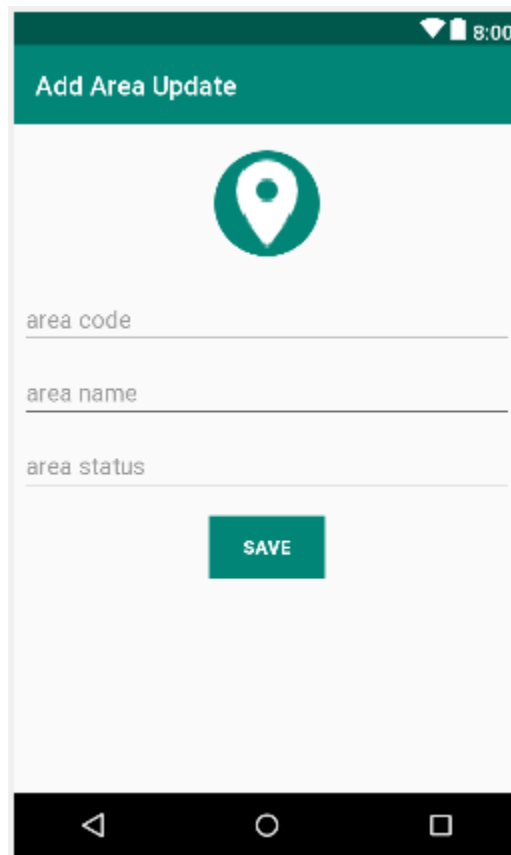
vehicle status

SAVE

Item 0
Item 1
Item 2
Item 3
Item 4
Item 5
Item 6
Item 7

Figure 6: Add Vehicle Page

6.7 Add Area Update Page



8:00

Add Area Update

area code

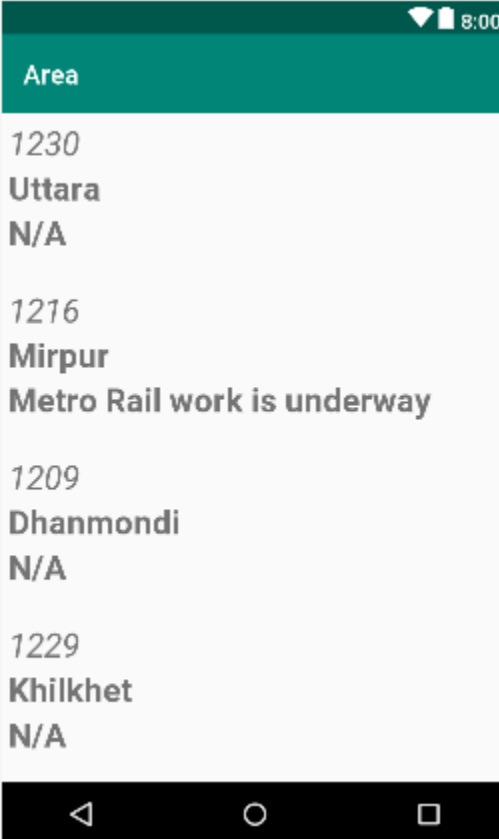
area name

area status

SAVE

Figure 7: Add Area Update

6.8 Area Update List



The screenshot shows a mobile application interface with a green header bar labeled 'Area'. Below the header, there is a list of four items. Each item consists of a number, a location name, and a status. The status for the first and third items is 'N/A', while the second item has a detailed status: 'Metro Rail work is underway'. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps buttons.

Area
1230 Uttara N/A
1216 Mirpur Metro Rail work is underway
1209 Dhanmondi N/A
1229 Khilkhet N/A

Figure 8: Area Update List

Chapter 7

Conclusion

7.1 Critical Evolution

If user is not comfortable with android smart phone he/she should have problem with this application. User must know English because whole application is in English. He/she should have good knowledge of google play store. User should be registered and then he/she can login the system.

7.2 Limitation

It is very hard to develop something without any limitations. This project has some limitations. Limitations are as follows

- Not highly secure
- No map facility

7.3 Future Scope

If this software is used properly and user can understand its usability, it can be used for other things like add google map, search nearby places, show route and area in map and others. It can be used in daily life. It can improve for other things if it is useful for user and they get help from this.

7.4 Final Synopsis

It has been a great pleasure to work on this project. This project helps to know new technology. This project thing is some kind of weird thing but this is helping people. Helping people with developing an application makes a better world.

Reference

To complete this application, I have taken help from many places. Some references are given below

- <https://developer.android.com>
- www.google.com
- www.youtube.com
- www.wikipedia.com
- <http://github.com>