Traffic Case e-Service

Submitted by

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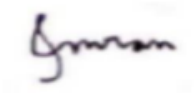
This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

APPROVAL

This project titled on "Traffic Case e-Service", submitted by Md. Nahiduzzaman, ID: 172-35-2108 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 Bachelor of Science in Software Engineering and approval as to its style and contents.

Board of Examiners



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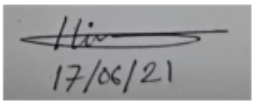

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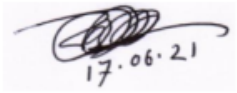

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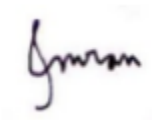
DECLARATION

I hereby declared that I carried out the work reported in this report in the **Department of Software Engineering**, **Daffodil International University** of, Under the Supervision of **Dr. Imran Mahmud**. Materials of work found by other researchers are mentioned by reference.

I solemnly declare that to the best of my knowledge; no part of this report has been submitted here or elsewhere in a previous application for degree.

Supervised by



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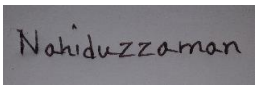

Md. Nahiduzzaman

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ACKNOWLEDGMENT

At first, I want to express that I am really thankful to the almighty **Allah** for giving us the chance to complete this project successfully.

I felt grateful to and wish my profound indebtedness to, Department of Software Engineering, Daffodil International University. I would like to express my deepest appreciation to my project supervisor Dr. Imran Mahmud, Associate Professor & Head, Department of Software Engineering Daffodil International University. His endless guidance, valuable advice, continuous encouragement, and constant supervision have made it possible to complete this project.

I am also very grateful to all of our teachers and friends for their valuable suggestions help and support during the completion of my project, for his kind help to finish my project, and also to other faculty members and the staff of the Software Engineering Department of Daffodil International University.

I shall like to thank our entire course mate in the Department of Daffodil International University, who took part in this discussion while completing the course work.

Finally, I must acknowledge with due respect the constant support and patients of my parents.

ABSTRACT

This project entitled “Traffic Case e-Service” is a web-based application. This will work for the traffic police of Bangladesh to register new cases, and the victim can dismiss their case from anywhere in Bangladesh.

The user will have their account registered and log in with this system by the account type. They will be able to access their own functionality.

It is a very helpful project for Bangladesh traffic police. The main purpose of my system is to register a new case against the vehicle driver or owner and sent information to the vehicle owner.

Nowadays most of the time the traffic police have to bear an invoice to write a new case, on the other hand, the vehicle owner doesn’t know about their driver's offense which he or she occurs on the road.

Besides, there are many types of syndicates and also many corrupted officers who try to make money by enforcing some unlawful act with normal people. So, people face many types of hassle.

In this system, the traffic police can write a case on the internet, and the vehicle owner can know about their driver's offense. The other functionality is that the driver or victim can dismiss their case from anywhere in Bangladesh, they don’t need to go to any specific police station for dismisses their case.

This system will help the traffic police register a new case on the internet, as well as inform the vehicle owner, and also the victim can dismiss their case from anywhere in Bangladesh from any authorizer traffic police.

The modern technology is used to implement an automated system to make it more secured. So, here is the proposed online-based solution “Traffic Case e-Service” to solve their traffic case issue in a short time.

Table of Contents

Chapter 1

Introduction

1.1 Case Study

There is a big problem for people in achieving driving-related clearance for any type of vehicle. It's a very lengthy process to get clearance in an appropriate way. Different types of management issues made the process delay. Nowadays the traffic police have to carry a case invoice to write a case. The driver or vehicle owner has to go to a specific police station to dismissing their case.

Besides, there are many types of syndicates and also much corrupted Police Officer who try to make money by enforcing some unlawful act with normal people. Corruption, lack of proper management in this sector named badly. On the other hand, most of the time the vehicle owner doesn't know about their driver's offense which he or she occurs on the road.

But this project or system will help the owner or drier as well as the traffic police. This system is very user-friendly for both the vehicle owner or driver and traffic police.

1.2 Finding Gaps

In an existing system in the country, getting a driving-related clearance without facing any problem in a short time is not possible. If it could be solving in an easy way, people may stop feeling exhausted. It also helps to reduce the corruption in the traffic police department.

1.3 Motivation

To the main purpose of this system is to inform the vehicle owner about their driver offence that he or she occurs on the road. The authorized traffic police will write a case against the driver and sent a mail to the vehicle owner with an attachment on driver image and case basic information. To reduce the corruption from the traffic police department. As a developing country, we must try to adopt the trends of technologies that are followed by the world's most developed country besides inventing something new for us.

1.4 About the Project

I have developed a system which is for traffic police case online system. This system will work for two types of user section, write a case section, vehicle owner inform section, claim section, payment section, and security section. The traffic police admin panel can be able to assign new traffic police surgeons as traffic police users, they can be able to observe traffic police user's activity. The traffic police user can be able to assign a new case against the vehicle driver on the

road as well as can dismiss the case by taking payment from the victim or vehicle owner or driver. The vehicle owner can be able to know about his or her driver's offense with photography for the security system. If any traffic police misbehave with driver or owner then he or she can claim against the traffic police.

1.5 Objective

The main objective of this system is to write a case in the online system and inform the vehicle owner about his or her driver's offense. As well as dismiss cases from anywhere in the country. This system will reduce the effort and harassment of vehicle owners and drivers. This system is very useful for the traffic police as well as vehicle owners and drivers.

1.6 Stakeholders

- Traffic Police
- Police Station
- User
- Developer

Chapter 2

System Analysis

2.1 Feasibility Study

In this software project's feasibility, I will be looking over all possible relevant factors like economical, technical, and operational feasibility. Throughout this feasibility study, I will be able to make a decision that our team is capable enough to develop this project or not. I will be analyzing that feasibility by analyzing the tools and technologies I am going to use and the requirement I am finding to contribute in different portions of this project are summarized below.

2.1.1 Operational Feasibility

Let's say we are installing our system under Bangladesh Govt. in BRTA e-governance support for public. Now, the question that comes is, "How fruitful this project is going to be?", "Will the public accept this modern system?", "Is it going to bring some benefits?" So far, analyzing our system we have come to a decision that this project is going to be operationally feasible.

- This project can save time in getting emergency driving license without any corruption by most secure information system.
- This service help to keep out of the range from getting license, who are not eligible.

2.1.2 Technical Feasibility

In this project, we will use several modern technologies. So, we need to analyze based on some parameters like what technologies we are expecting to use, how many manpower we need to work with those technologies and if we don't have manpower then how we are going to mitigate the risk. Let's see what technologies we are expecting to use and how manpower our team has:

Technologies	Manpower	Ways to mitigate
PHP, Laravel V-x, MySQL, Vue.Js, Git, Bitbucket	2	Need to train 1 member
Base Tech Laravel	1	Need to train 1 member
Working with complex algorithms and APIs	2	Not Required

2.1.3 Economic Feasibility

Economic feasibility deals with how much cost I need to develop this project additionally with how much production cost I need. I will analyze this part more in the cost analysis section of this chapter.

2.1.4 Legal Feasibility

Any part of the project doesn't go against the law of our country. I have analyzed whether our project goes against data protection acts as data storage playing a big role. The system will open and wind of modern technology service for the republic.

2.1.5 Scheduling Feasibility

The project has been scheduled for 4 months. The project is scheduled in such a way that from requirements gathering to implementation, testing maximum possible time has been assigned. Figure on section 2.2 shows the time estimation.

2.2 Time Estimation

Activity	**Preceding Activity**	**Number of days**			$\frac{to+4tm+tp}{6}$ te =		
		to	tm	tp			
Requirement Collection (A)	None	3	4	6		4.2	
Feasibility Study (B)	A	3	5	8		5.16	
Drawing Diagrams (C)	A, B	3	5	9		5.33	
UI/UX design (D)	A, C	5	9	12		8.83	
MVC Architecture Design (E)	A, C, D	7	10	15		10.33	
Programming (F)	A, E	15	20	30		20.83	
Testing (G)	E	3	5	7		5	

2.3 Cost Estimation

Items	Units/Hr.	Cost/Unit/Hr.	Subtotals	Totals	% of Total
1. Project Management				$310800	65.3%
Project Manager	960	$80	$76800		
Project Team Members	1200*2	$65	$234000		
2.Hardware				$2624	.56%
2.1.Computer			$2124		
2.2.Mobile Devices			$500		
3. Software				$400	.08%
3.1.Win 10 Pro			$200		
3.2.Editor			$200		
4. Servers			$40000	$40000	8.41%
5. Testing				$72000	12.3%
5.1.Tester	480*3	$50	$72000		
6. Training & Support				$45000	10.5%
7. Others				$5000	2.85%
Total				$475824	100%

Chapter 3

Software Requirement Specification

3.1 Functional Requirements

This is the functional requirement for this project, and we have 21 functional requirements which are given in the table below:

3.1.1 FR for User

FR-01U	Registration
Description	User can create a new profile.
Stakeholders	User
Priority	High

FR-02U	Login and Logout
Description	User will be able to login and logout to the system with valid user credentials.
Stakeholders	User, Administration, Traffic Police.
Priority	High

FR-03U	Input Driver & vehicle info
Description	When user assigns new data for the Driver registration, the system stores each & every number of rows data as submission.
Stakeholders	User, Administration.
Priority	High

FR-04U	Apply for Police Clearance
Description	When user assigns all data & ensure for the Clearance, then the Administration give notification to user for the payment.
Stakeholders	User.
Priority	High

FR-05U	Traffic Sign & Driving Test Guideline
Description	User can view all information of the traffic sign & driving test guideline for driving test.
Stakeholders	User, Traffic Police, Administration.
Priority	Low

FR-06U	Logout
Description	User can logout at the end of the work.
Stakeholders	User
Priority	High

3.1.2 FR for Administration

FR-01A	Login and Logout
Description	Administration will be able to login and logout to the system with valid user credentials.
Stakeholders	Administration
Priority	High

FR-02A	Manage Users
Description	Administration can able to check user all information, and also validate that information.
Stakeholders	Administration
Priority	High

FR-03A	Manage Police Station
Description	Administration is getting all information are validate, then Administration is given feedback to the requested person.
Stakeholders	Administration
Priority	High

FR-04A	Manage Police Clearance request
Description	Administration gets everything are ok. Then administration notify to give a Police Clearance.
Stakeholders	Administration
Priority	High

FR-05A	Logout
Description	Administration can logout at the end of the work.
Stakeholders	Administration
Priority	High

3.1.2.1 FR for Traffic Police

FR-01TP	Login and Logout
Description	Traffic Police can be able to login and logout to the system with valid user credentials.
Stakeholders	Traffic Police, Administration
Priority	High

FR-02TP	Check for (driving license, vehicle registration, insurance)
Description	Traffic Police can check the driving license, vehicle registration, & insurance.
Stakeholders	Traffic Police, Administration
Priority	High

FR-03TP	Case Input
Description	Traffic Police can input case for the penalty to against of invalid driving license, vehicle registration, & insurance.
Stakeholders	Traffic Police, Administration
Priority	High

FR-04TP	Case Search
Description	Traffic Police can also check list of the cases done by own-self.
Stakeholders	Traffic Police, Administration
Priority	High

FR-05TP	Logout
Description	Traffic Police can logout at the end of the work.
Stakeholders	Traffic Police
Priority	High

3.1.2.2 FR for Police Station

FR-01PS	Login
Description	Police will be able to login and logout to the system with valid user credentials.
Stakeholders	Police, Administration
Priority	High

FR-02PS	Manage Traffic Police
Description	Police can manage to the Traffic Police
Stakeholders	Police, Administration
Priority	High

FR-03PS	Manage list of Cases
Description	Police can also manage the list of Cases.
Stakeholders	Police, Administration
Priority	High

FR-04PS	Manage Police clearance requests
Description	Police can approve or reject the clearance requests
Stakeholders	Police, Administration
Priority	High

FR-05PS	Logout
Description	Police can logout at the end of the work.
Stakeholders	Police
Priority	High

3.2 Non-Functional Requirements

This is the functional requirement for this project, and we have 5 functional requirements which are given in the table below:

3.2.1 Performance

NFR-01	The Landing page will responses within a second
Description	Response to view information shall take no longer than 5 seconds to appear on the screen
Stakeholders	Developer

3.2.2 Safety Requirements

NFR-02	System use shall not cause any harm to human users.
Description	System will be designing as per requirement so that it does not harm any user.
Stakeholders	Admin, User

3.2.3 Fault Tolerance

NFR-03	The system must be available 24x7
Description	The system must be available 24 hours a day. And it must be updated regularly
Stakeholders	Developer

3.2.4 Maintenance

NFR-05	The system helps to update any information in any time
Description	The admin change or update any information in any situation
Stakeholders	Admin

3.2.5 Security

NFR-05	Maintenance high level security for each and every action in this module.
Description	Registration with NID measures secure representation of any user. And 3-layer validation with OTP is provided for maintaining user level and administration level security.
Stakeholders	Admin

Chapter 4

System Analysis & Design

4.1 Use Case Diagram

There are four actors in our use case diagram. This diagram will refine my project in details.

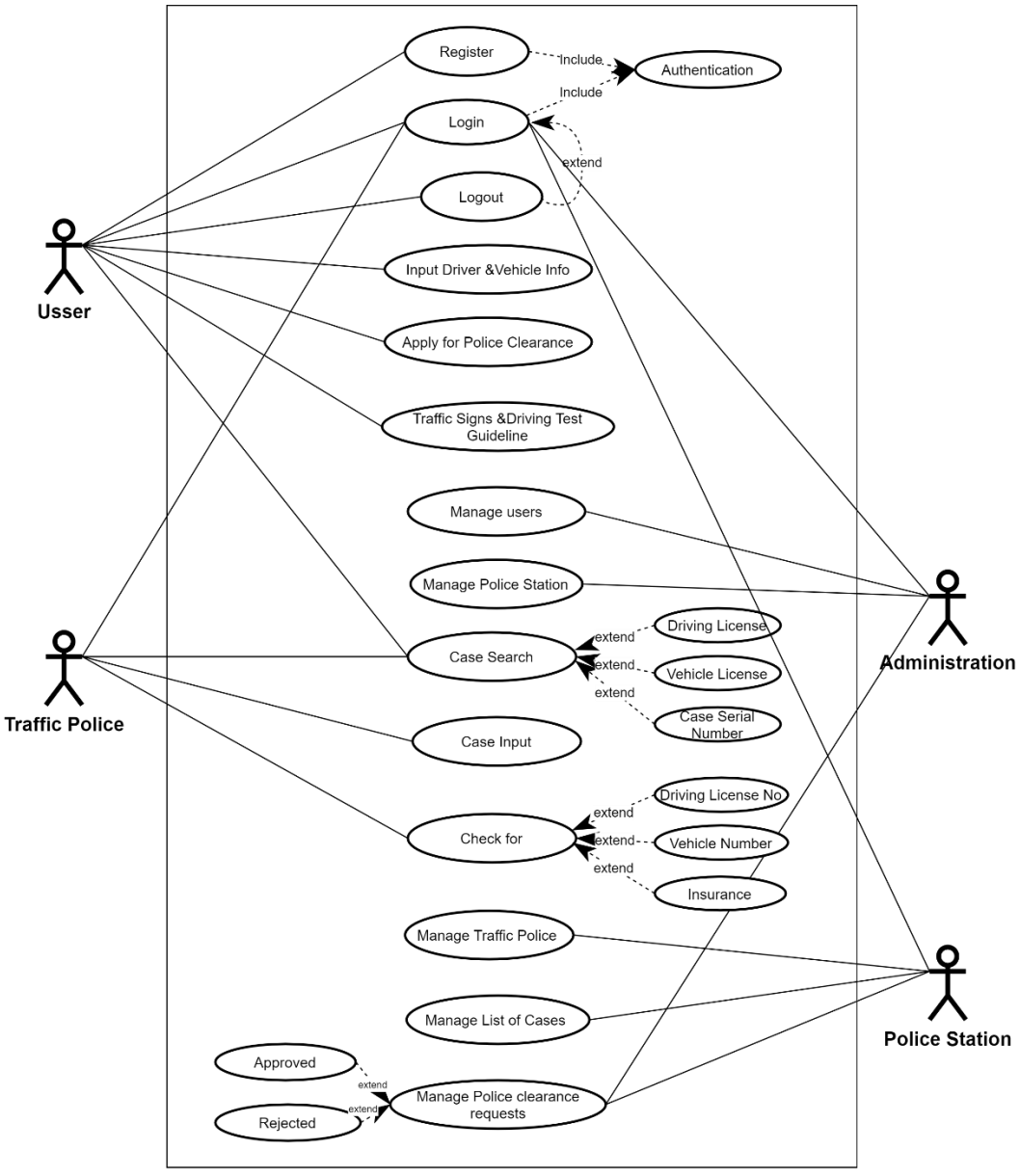


Fig: 4.1 Use Case Diagram

4.1.1 Use Case Diagram and Description: User

4.1.1.1 Use Case Diagram

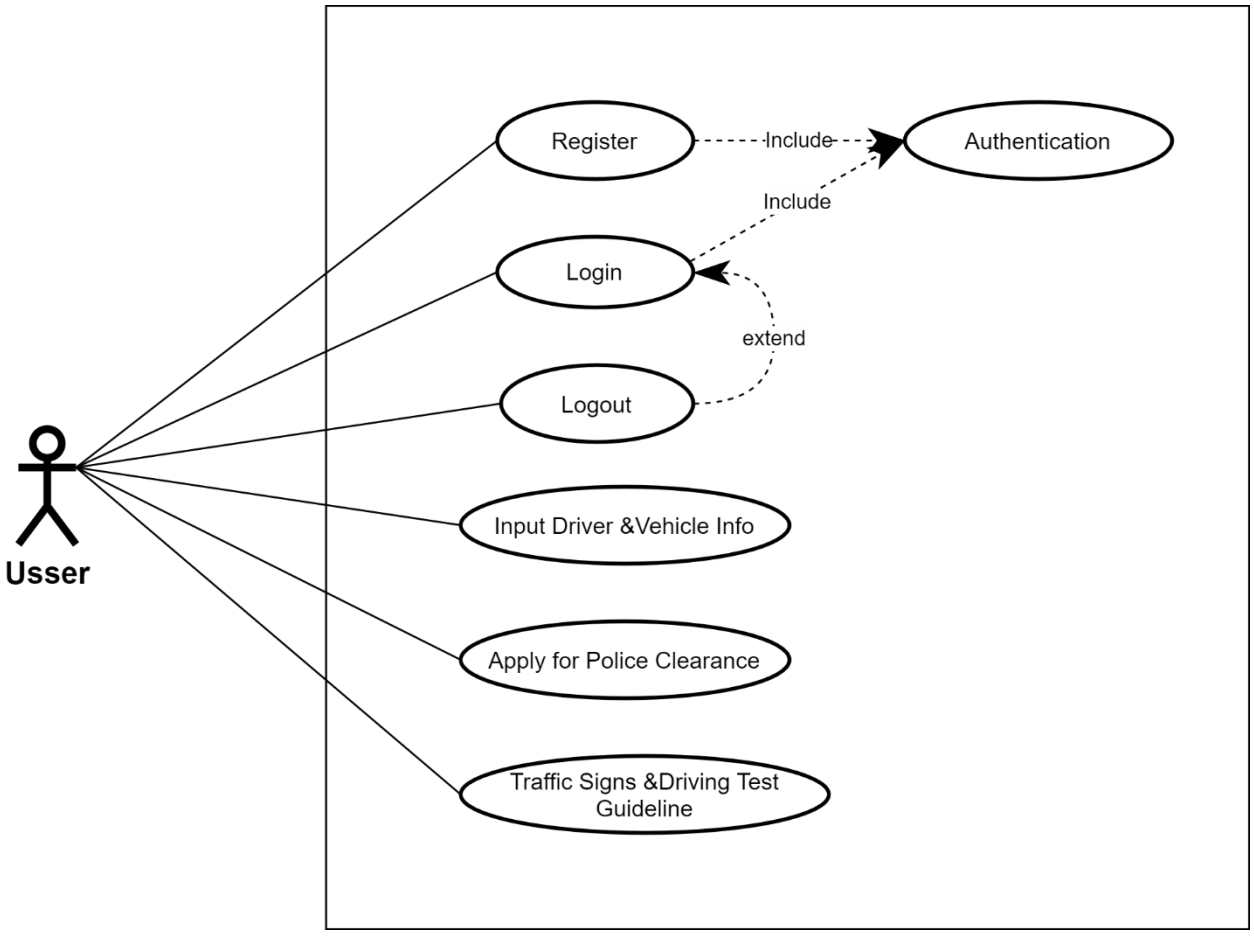


Fig: 4.1.1 User Use Case Diagram

4.1.1.2 Use Case Diagram Description

Use Case Name	**Registration**
Actor	User
Description	User can create a new profile for register by themselves
Precondition	User must be on register page
Trigger	By clicking on “Registration” button
Flow of Events	-User will click Register button -User will select criteria of new profile
Post Condition	A new user will be added into the system

Use Case Name	**Login**
Actor	User
Description	User will log into the system by using their credentials
Precondition	User must be on login page
Trigger	Click the “Login” button
Flow of Events	-Should have two text box which contain user name and password -Fill up the text box -Submit information
Post Condition	User can login this system successfully.

Use Case Name	**Input Driver & vehicle info**
Actor	User
Description	When user assigns new data for the Driver registration, the system stores each & every number of rows data as submission.
Precondition	User must be on home page.
Trigger	By clicking “Input Driver & vehicle info” for apply driving license.
Flow of Events	-User give basics information - User give driver information -User give vehicle information
Post Condition	User can Input Driver & vehicle info this system successfully.

Use Case Name	**Apply for police clearance**
Actor	User
Description	If user got a case from the traffic police, then user can apply for the police clearance.
Precondition	User must be on home page
Trigger	By clicking “Apply for police clearance” for police clearance
Flow of Events	-User apply for police clearance
Post Condition	Apply for police clearance successfully

Use Case Name	**Traffic Sign & Driving Test Guideline**
Actor	User
Description	User can view all information of the traffic sign & driving test guideline for driving test.
Precondition	User must be on home page
Trigger	By clicking “Traffic Sign & Driving Test Guideline” for the View Traffic Sign & Driving Test Guideline
Flow of Events	-User View Traffic Sign & Driving Test Guideline
Post Condition	View Traffic Sign & Driving Test Guideline successfully

Use Case Name	**Logout**
Actor	User
Description	Users will be able to reset their own account password
Precondition	User must be logged in
Trigger	By clicking logout button
Flow of Events	-User will be logged into the system -User will click logout button
Post Condition	User will be logged out from the system and redirected to login page

4.1.2 Use Case Diagram and Description: Administration

4.1.2.1 Use Case Diagram

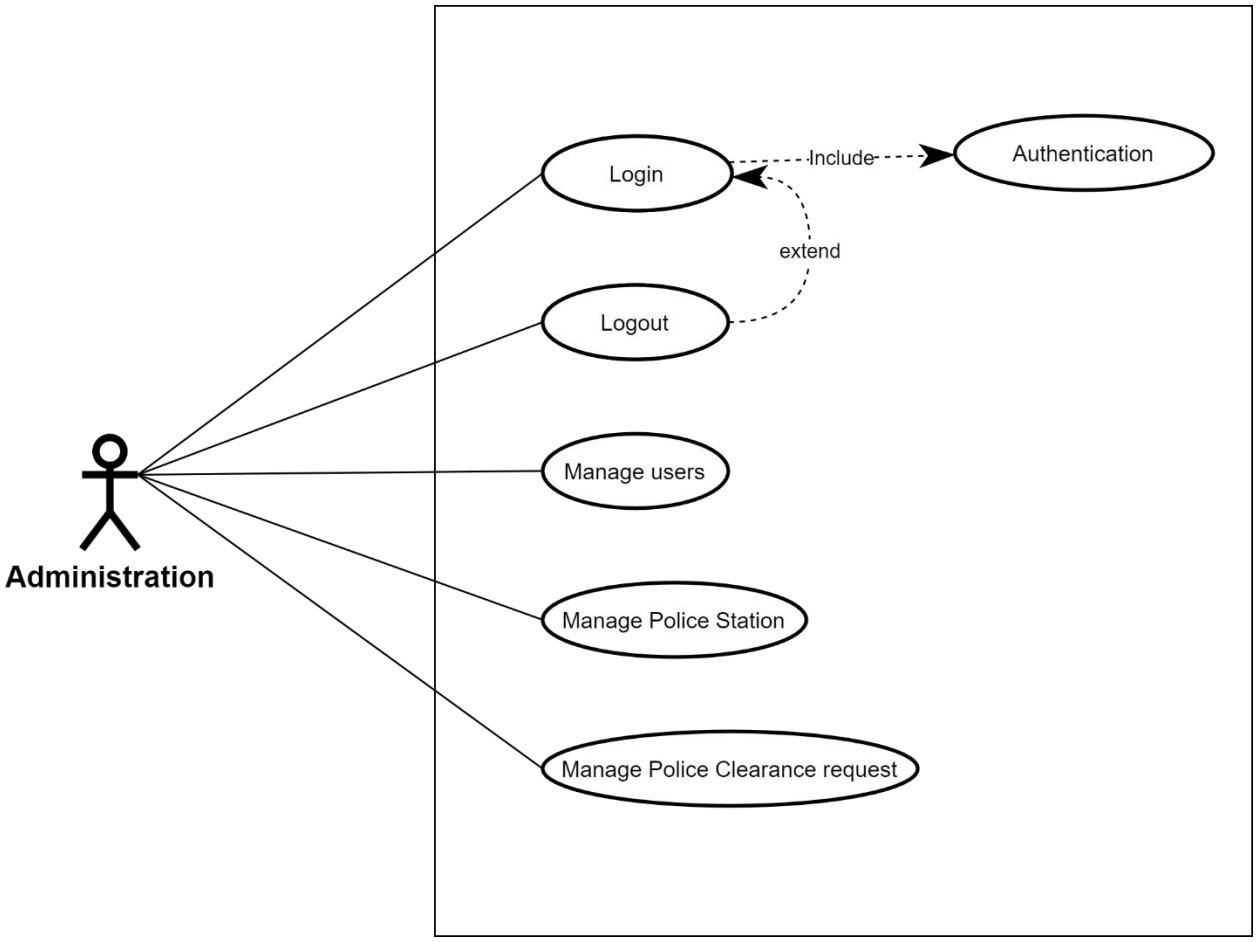


Fig: 4.1.2 Administration Use Case Diagram

4.1.2.2 Use Case Diagram Description

Use Case Name	**Login**
Actor	Administration
Description	Administration will log into the system by using their credentials
Precondition	Administration must be on login page
Trigger	Click the "Login" button
Flow of Events	-Should have two text box which contain user name and password. -Fill up the text box. -Submit information**.**
Post Condition	Administration can login this system successfully

Use Case Name	**Manage Users**
Actor	Administration
Description	Administration can able to check user all information, and also validate that information.
Precondition	Administration must be on login page
Trigger	Check user's information database
Flow of Events	- Administration can able to check user all information - Administration can able validate those information
Post Condition	Administration manage user successfully.

Use Case Name	**Manage Police Station**
Actor	Administration
Description	Administration is getting all information are validate, then Administration is given feedback to the requested person.
Precondition	Administration must be on login page
Trigger	Check & validate traffic police's request information
Flow of Events	- Administration are get all information are validate - Administration are given feedback to the requested person
Post Condition	Administration Manage Police Station successfully,

Use Case Name	**Manage Police Clearance request**
Actor	Administration
Description	Administration gets everything are ok. Then administration notify to make a license card.
Precondition	Administration must be on login page
Trigger	Click the “Manage Police Clearance request” button
Flow of Events	- Administration get everything are ok -Administration notify to make a give a Police Clearance
Post Condition	Administration Manage Police Clearance request successfully.

Use Case Name	**Logout**
Actor	Administration
Description	Administration will be able to reset their own account password
Precondition	Administration must be logged in
Trigger	By clicking logout button
Flow of Events	- Administration will be logged into the system - Administration will click logout button
Post Condition	Administration will be logged out from the system and redirected to login page

4.1.3 Use Case Diagram and Description: Traffic Police

4.1.3.1 Use Case Diagram

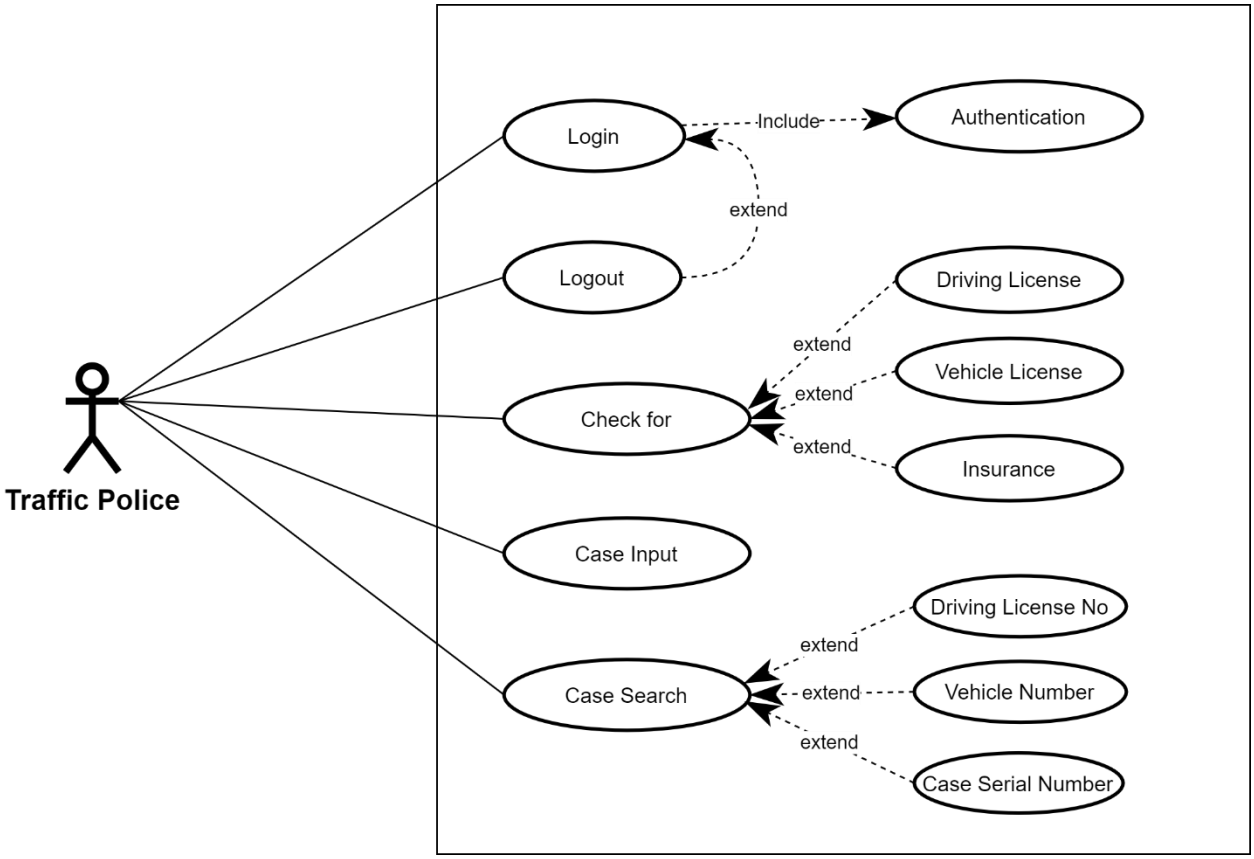


Fig: 4.1.3 Traffic Police Use Case Diagram

4.1.3.2 Use Case Diagram Description

Use Case Name	**Login**
Actor	Traffic Police
Description	Traffic Police will log into the system by using their credentials
Precondition	Traffic Police must be on login page
Trigger	Click the "Login" button
Flow of Events	-Should have two text box which contain user name and password -Fill up the text box -Submit information
Post Condition	Traffic Police can login this system successfully.

Use Case Name	**Check for (Driving License, vehicle license, Insurance)**
Actor	Traffic Police
Description	Traffic Police can check the driving license, vehicle registration, & insurance.
Precondition	Traffic Police must be on login page
Trigger	By clicking "Check for" Driving License, vehicle license, Insurance
Flow of Events	- Traffic Police can check Driving License - Traffic Police can check vehicle license - Traffic Police can check Insurance
Post Condition	Traffic Police can check successfully.

Use Case Name	**Case Input**
Actor	Traffic Police
Description	Traffic Police can input case for the penalty to against of invalid driving license, vehicle registration, & insurance.
Precondition	Traffic Police must be on login page
Trigger	By clicking "Case Input" for case penalty
Flow of Events	- Traffic Police can Case Input to against of invalid driving license - Traffic Police can Case Input for vehicle registration - Traffic Police can Case Input for insurance
Post Condition	Traffic Police Case Input successfully.

Use Case Name	**Case Search**
Actor	Traffic Police
Description	Traffic Police can also check list of the cases done by own-self.
Precondition	Traffic Police must be on login page
Trigger	By clicking “Case Search” for manage list of case
Flow of Events	- Traffic Police can search list of case
Post Condition	Traffic Police Case Search list of case successfully.

Use Case Name	**Logout**
Actor	Traffic Police
Description	Traffic Police will be able to reset their own account password
Precondition	Traffic Police must be logged in
Trigger	By clicking logout button
Flow of Events	- Traffic Police will be logged into the system - Traffic Police will click logout button
Post Condition	Traffic Police will be logged out from the system and redirected to login page.

4.1.4 Use Case Diagram and Description: Police Station

4.1.4.1 Use Case Diagram

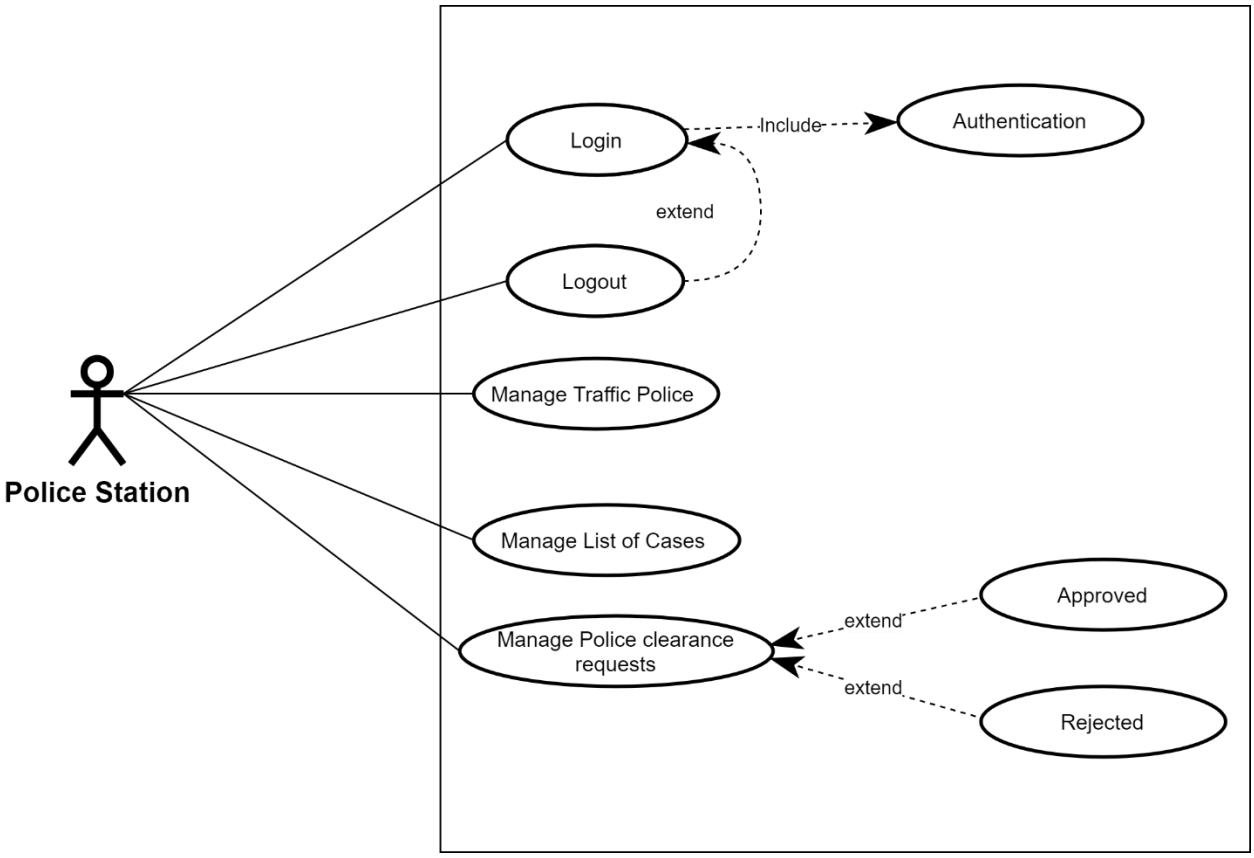


Fig: 4.1.4 Police Station Use Case Diagram

4.1.4.2 Use Case Diagram Description

Use Case Name	**Login**
Actor	Police Station
Description	User will log into the system by using their credentials
Precondition	User must be on login page
Trigger	Click the “Login” button
Flow of Events	-Should have two text box which contain user name and password -Fill up the text box -Submit information
Post Condition	User can login this system successfully.

Use Case Name	**Manage Traffic Police**
Actor	Police Station
Description	Police can manage to the Traffic Police
Precondition	Police must be on login page
Trigger	Click the “Manage Traffic Police” button
Flow of Events	-Police manage the Traffic Police
Post Condition	Police manage the traffic police successfully.

Use Case Name	**Manage List of case**
Actor	Police Station
Description	Police also manage the list of cases
Precondition	Police must be on login page
Trigger	Click the “Manage List of case” button
Flow of Events	-Police manage the list of cases
Post Condition	Police manage list of case successfully.

Use Case Name	**Mange Police clearance requests**
Actor	Police Station
Description	Police can approve or reject the clearance requests
Precondition	Police must be on login page
Trigger	Click the “Manage Police clearance requests” button
Flow of Events	-Police can approve or reject the clearance requests.
Post Condition	Police can Manage Police clearance requests successfully.

Use Case Name	**Logout**
Actor	Police Station
Description	Users will be able to reset their own account password
Precondition	User must be logged in
Trigger	By clicking logout button
Flow of Events	-User will be logged into the system -User will click logout button
Post Condition	User will be logged out from the system and redirected to login page

4.2 Data Flow Diagram

4.2.1 Data Flow Diagram Level 0

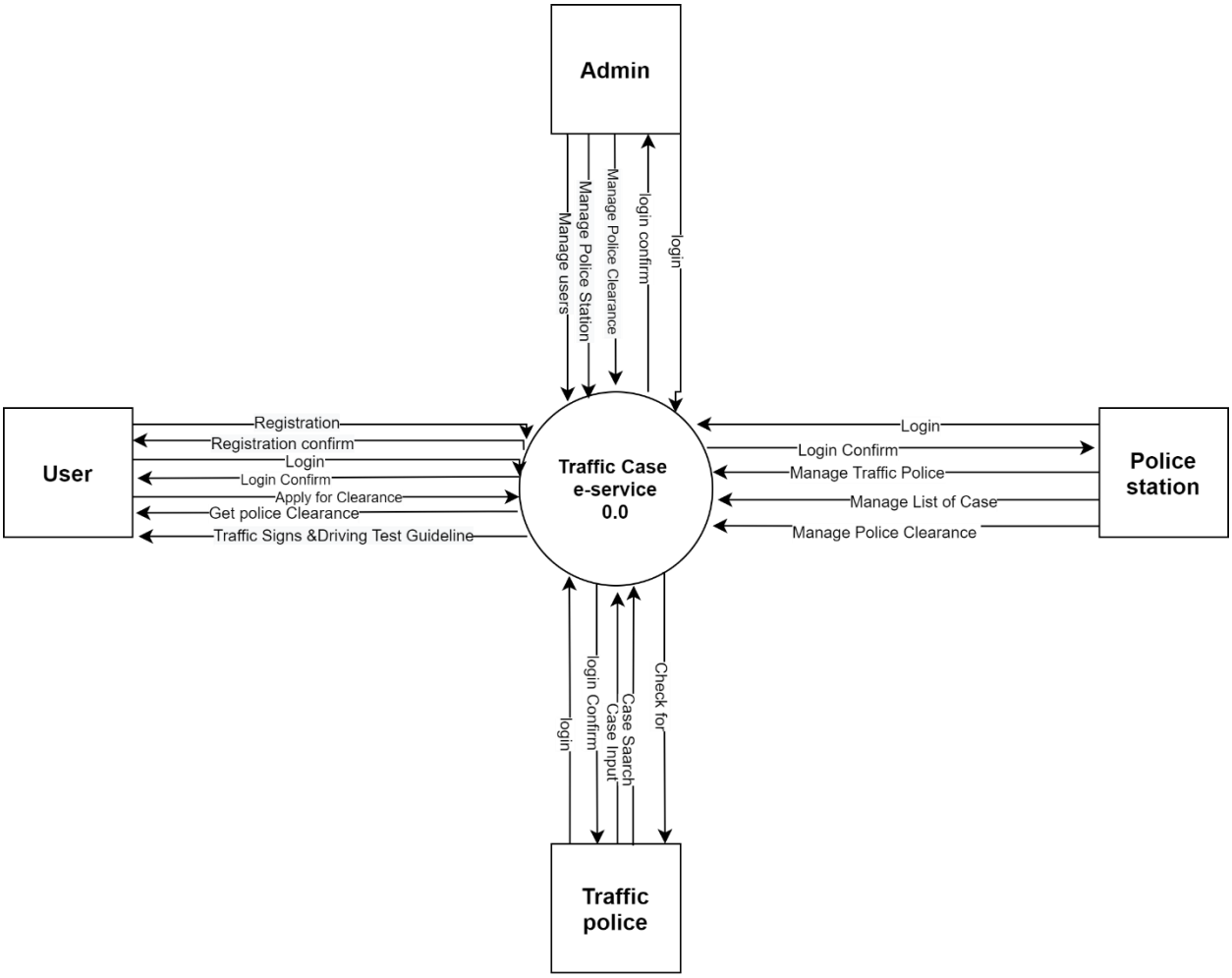


Figure: DFD Level 0

4.2.2 Data Flow Diagram Level 1

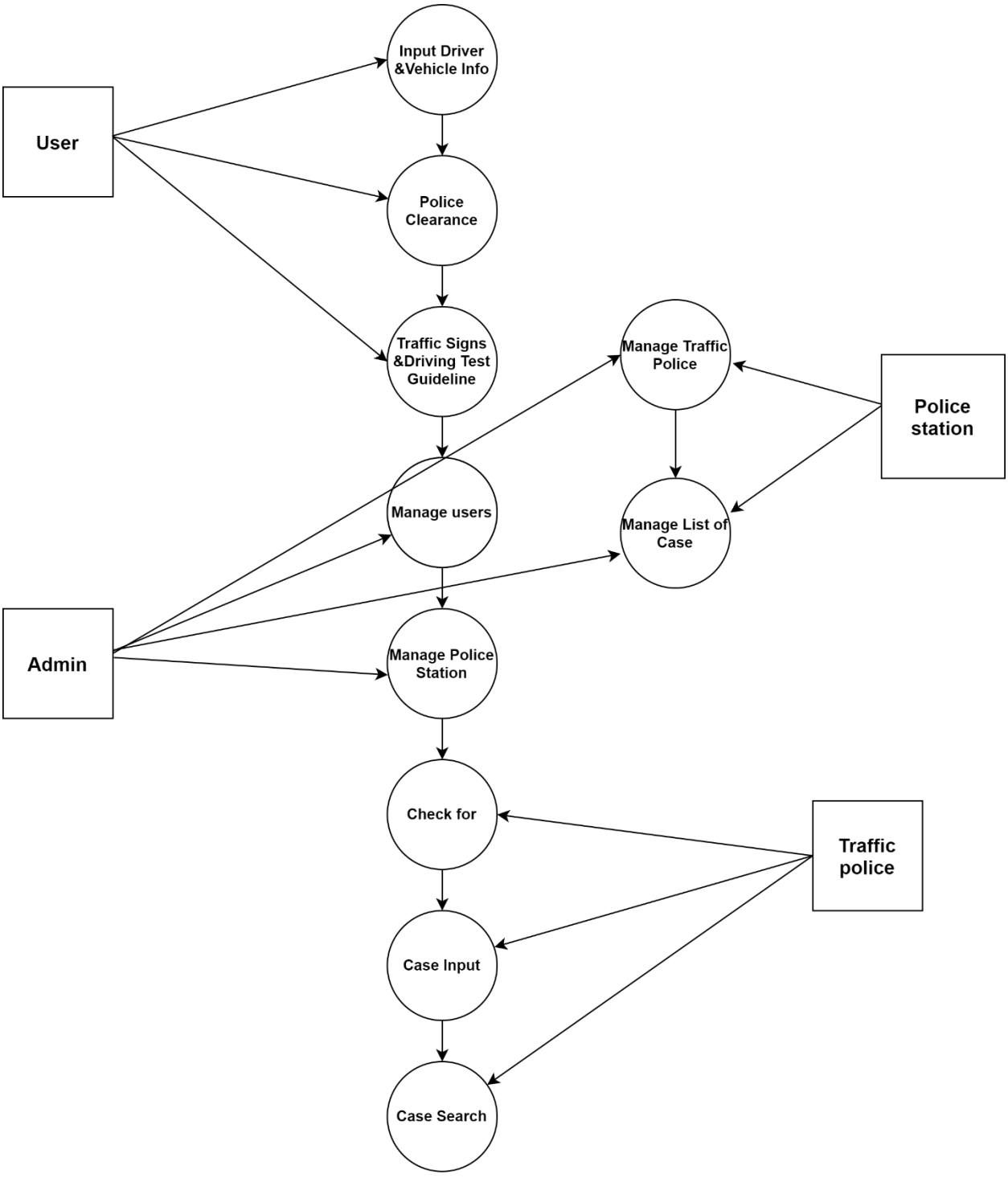


Figure: DFD Level 1

4.3 Activity Diagram

In this context, we will have an overview of how the system works in different modules. For this purpose, we will be breaking down all the activities into smaller parts and then incorporating them into activity diagrams. The purpose of drawing these activity diagrams is:

- ✓ To draw the activity flow of our solution.
- ✓ To describe the sequence from one activity to another.

4.3.1 Activity diagram for Registration

Note: Registration part will only be provided for the normal users except Administration, Police Station, Traffic Police.

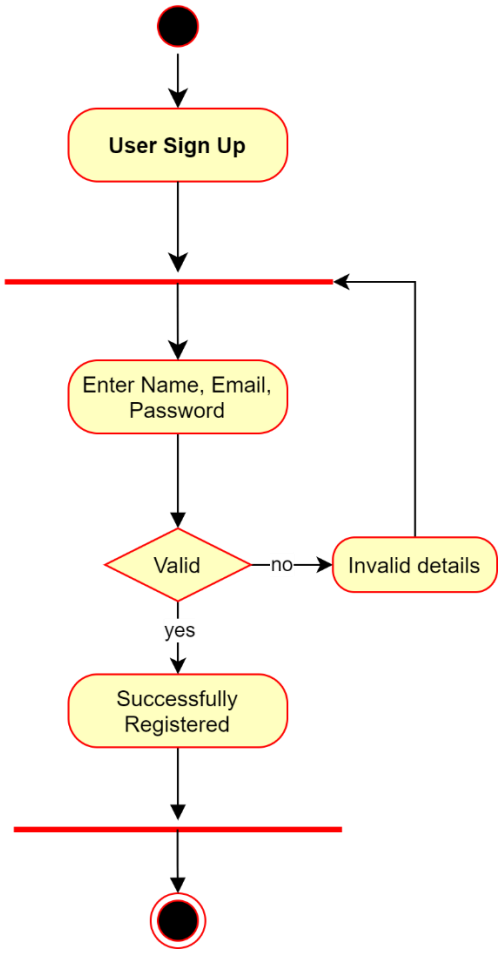


Fig: 4.3.1 Registration Activity Diagram

4.3.2 Activity diagram for login

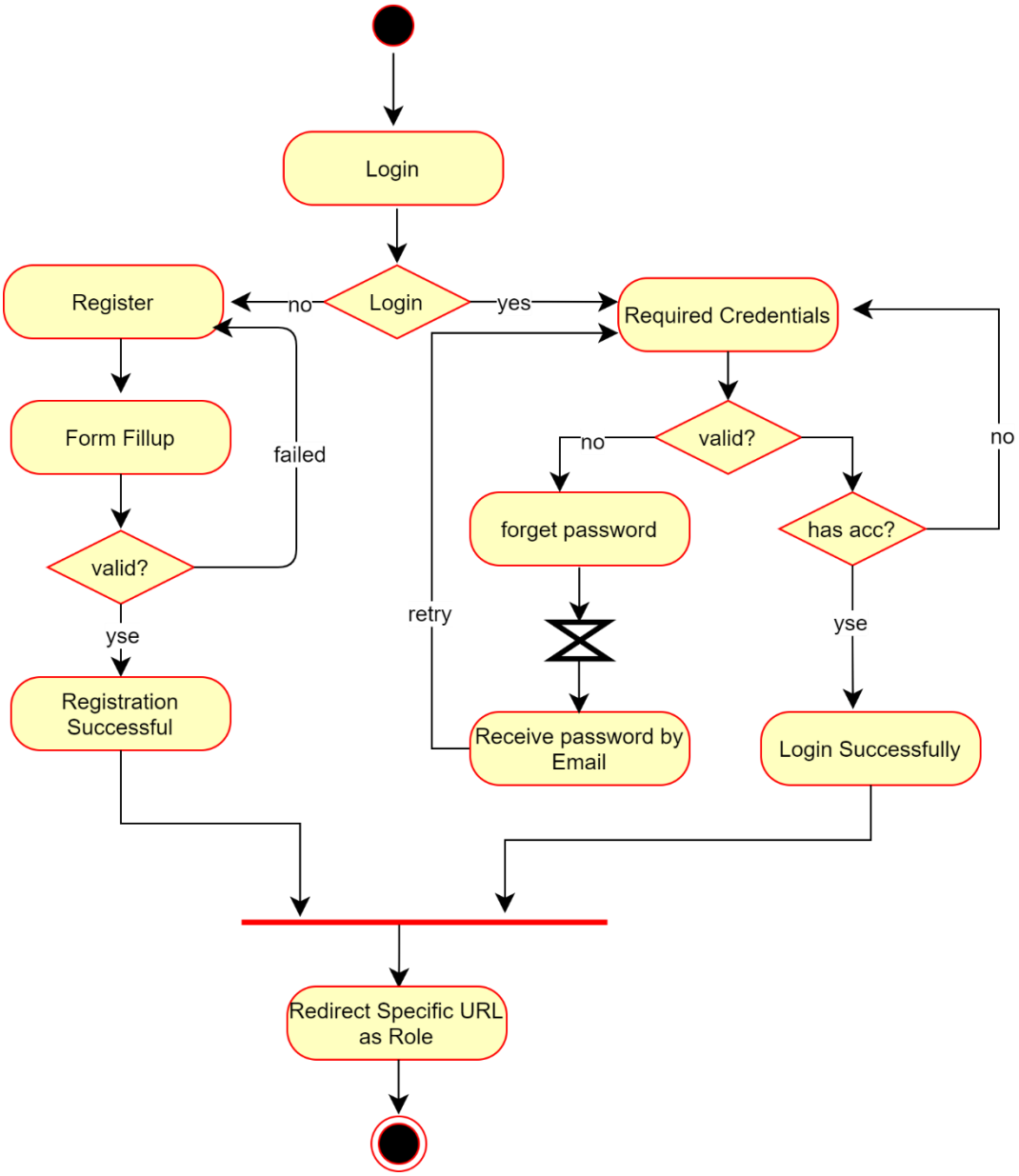


Fig: 4.3.2 Login Activity Diagram

4.3.3 Activity diagram for User

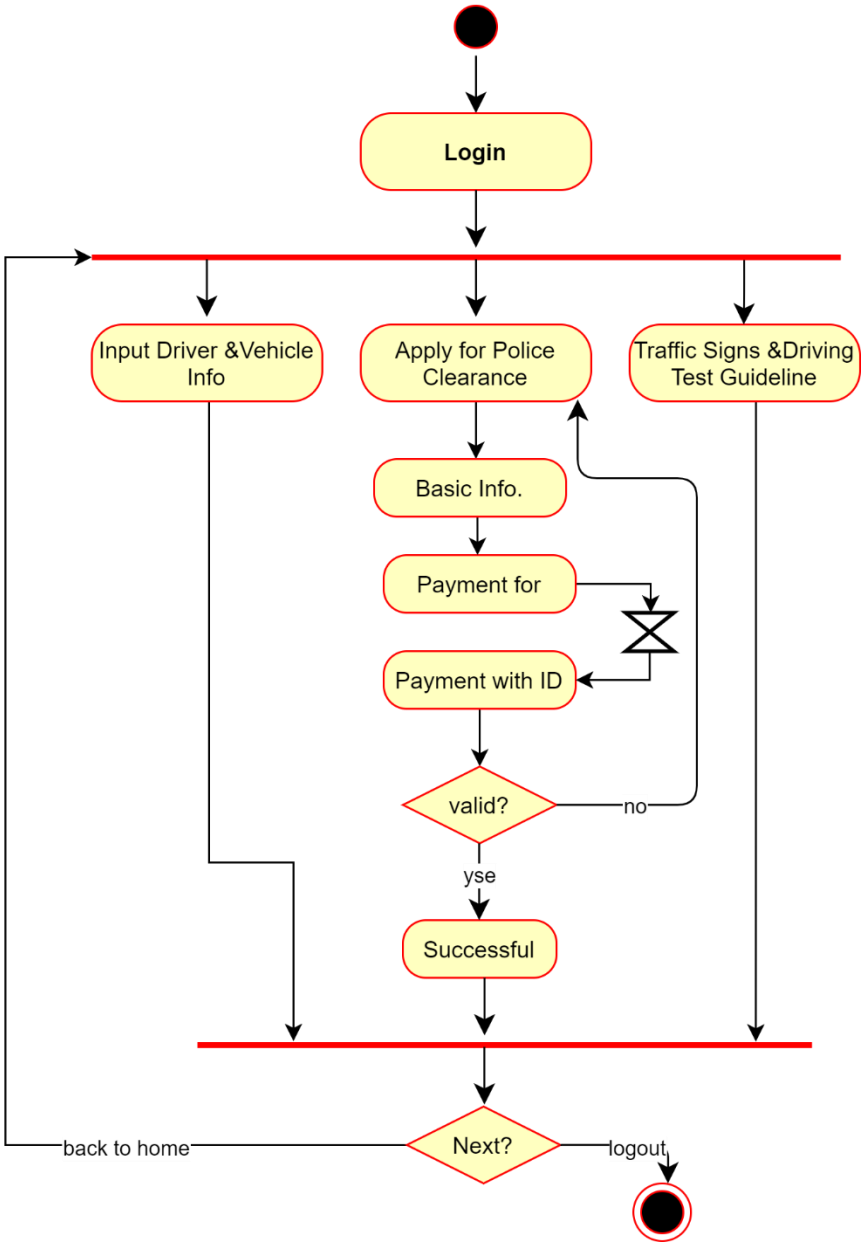


Fig: 4.3.3 User Activity Diagram

4.3.3.1 Activity diagram for User Input Driver & Vehicle Info

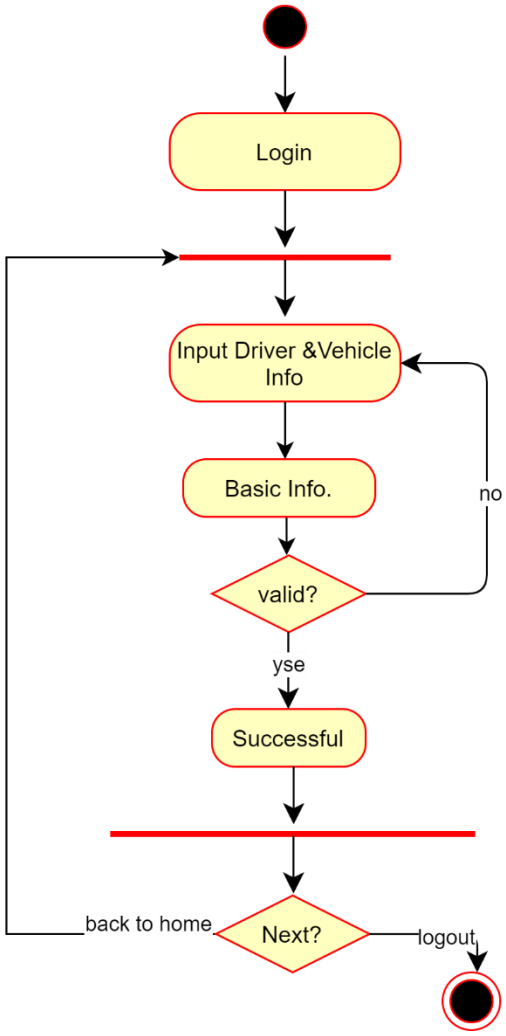


Fig: 4.3.3.1 User Input Driver & Vehicle Info Activity Diagram

4.3.4 Activity diagram for Administration

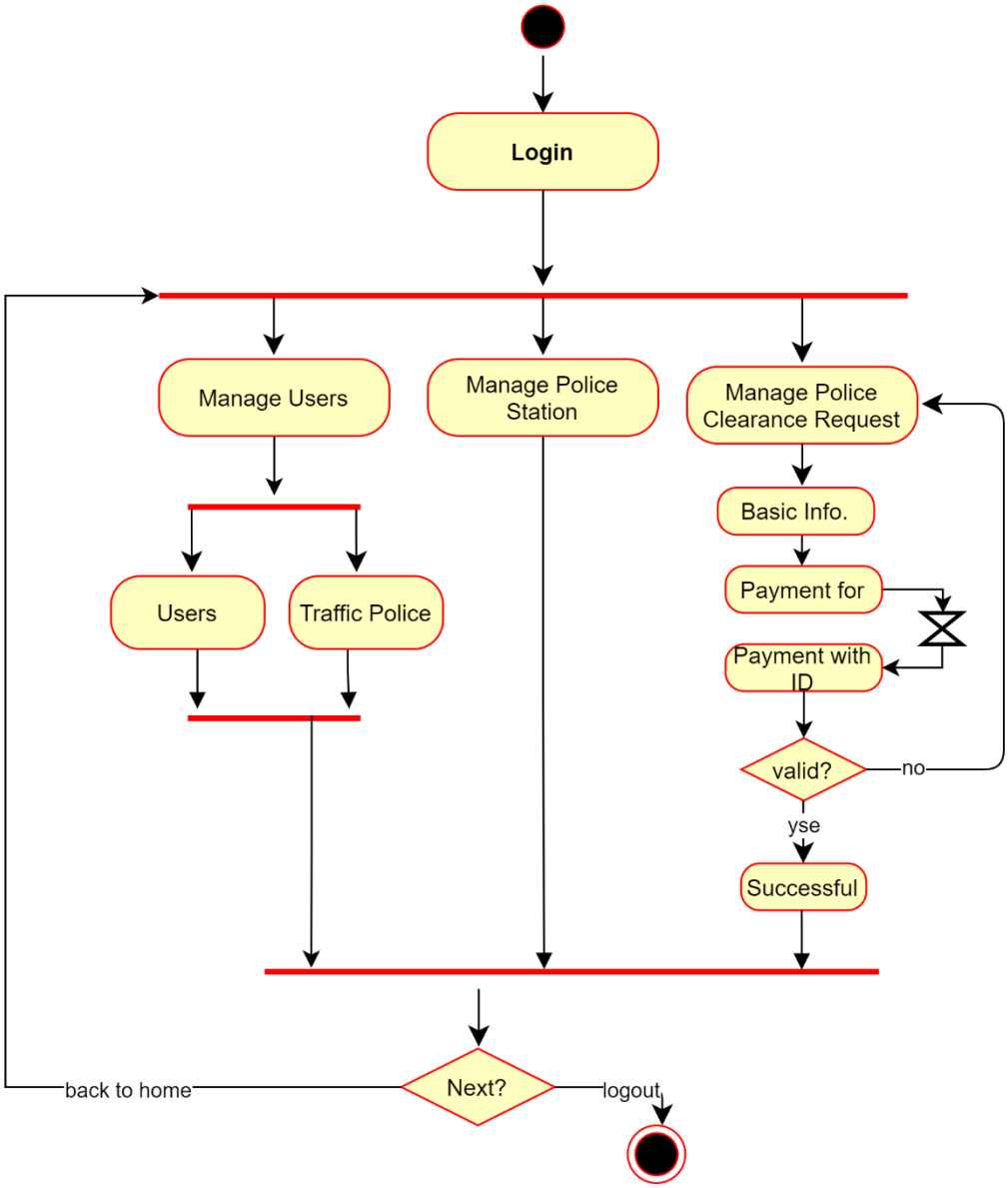


Fig: 4.3.4 Administration Activity Diagram

4.3.5 Activity diagram for Traffic Police

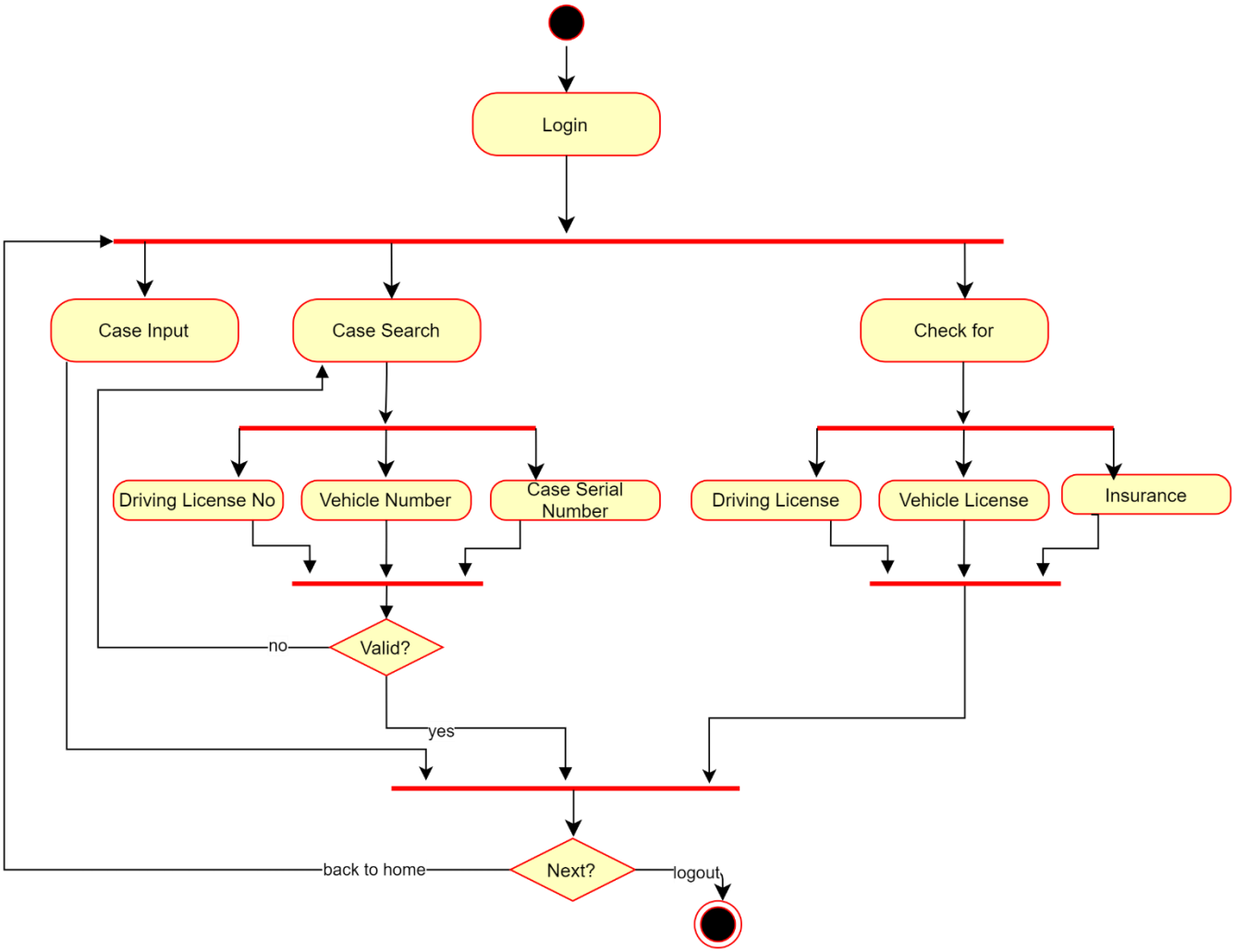


Fig: 4.3.5 Traffic Police Activity Diagram

4.3.5.1 Activity diagram for Traffic Police Case Input

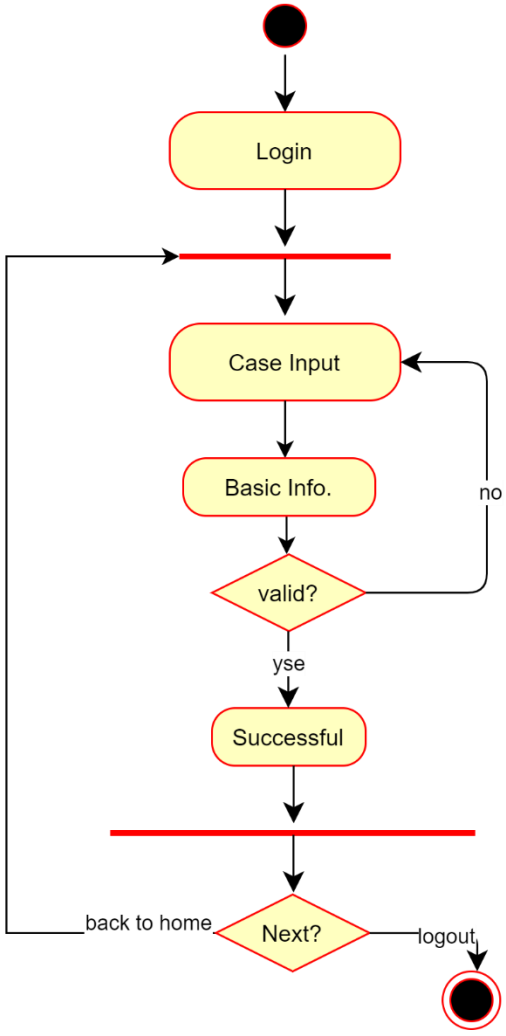


Fig: 4.3.5.1 Traffic Police Case Input Activity Diagram

4.3.6 Activity diagram for Police Station

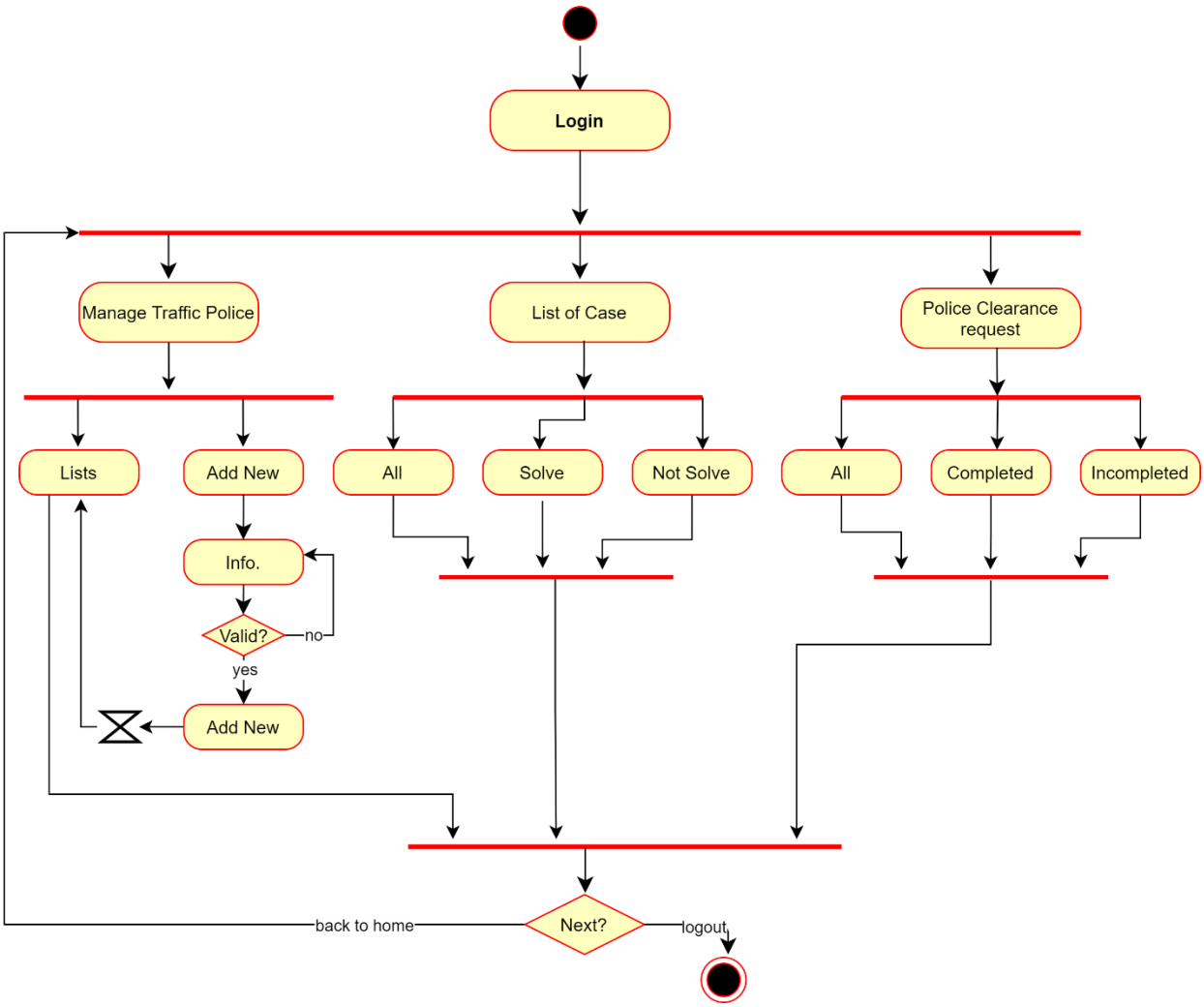


Fig: 4.3.6 Police Station Activity Diagram

4.4 Class Diagram

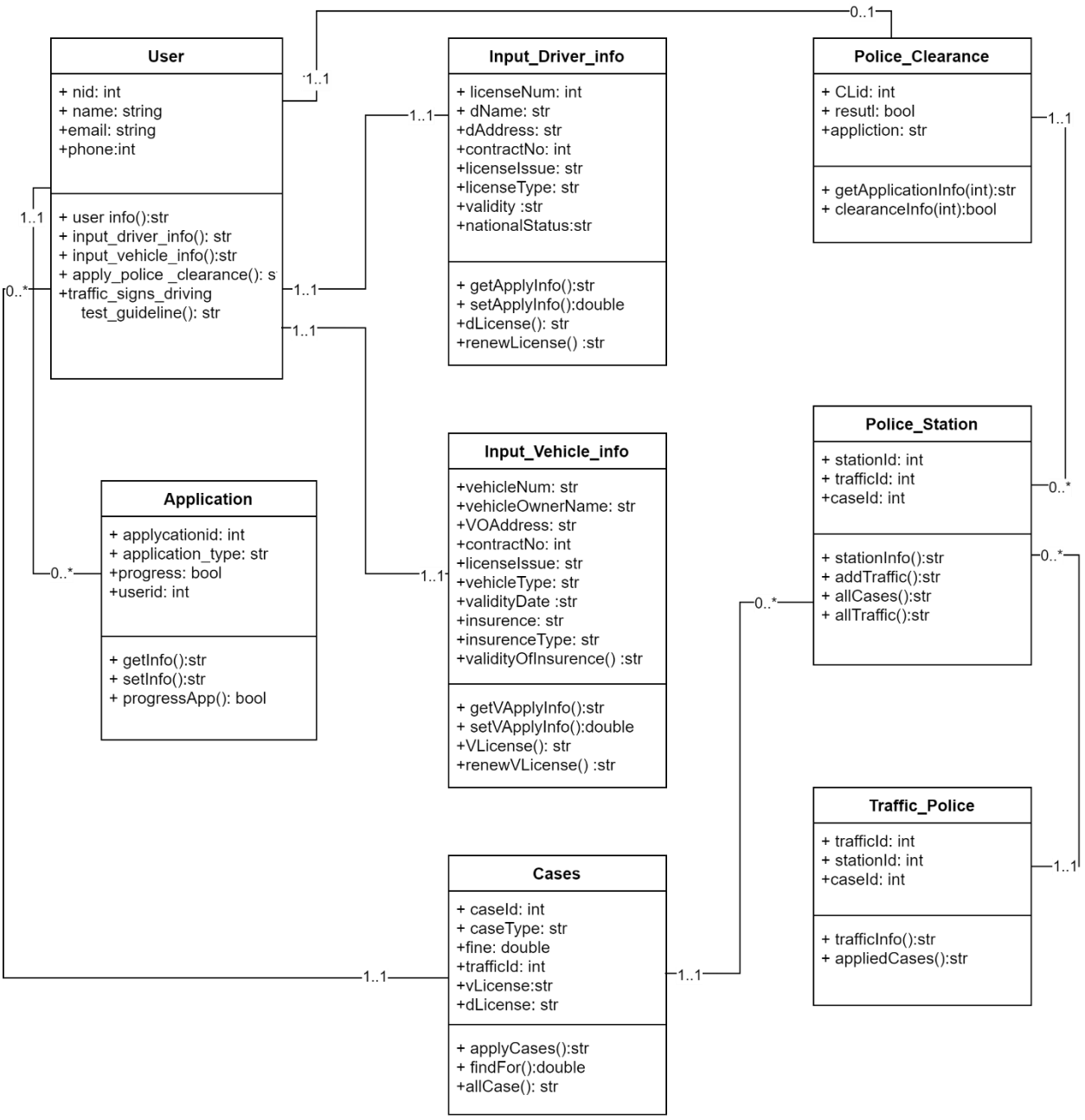


Fig: 4.4 Class Diagram

4.5 Sequence Diagram

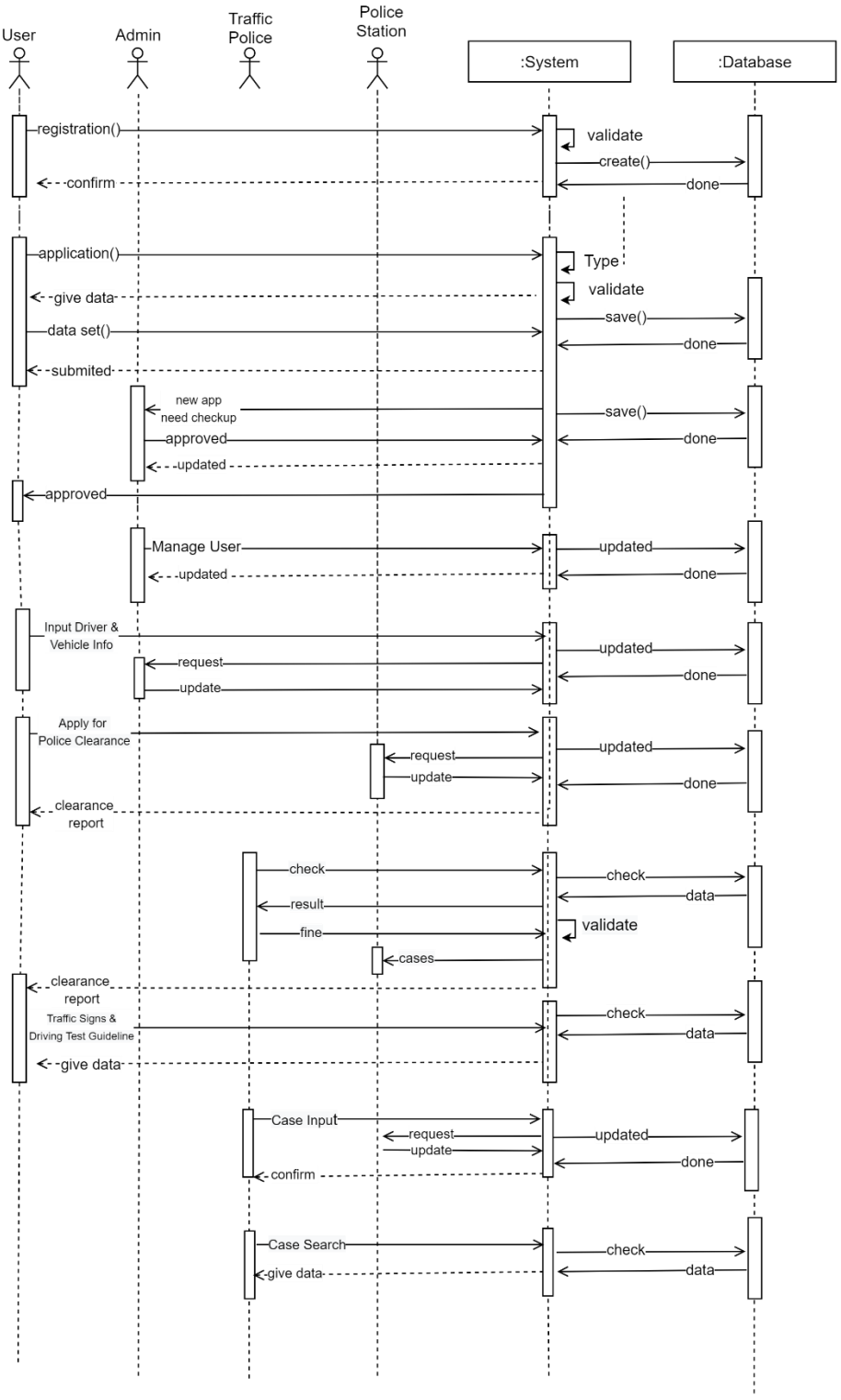


Fig: 4.5 Sequence Diagram

4.6 ER Diagram

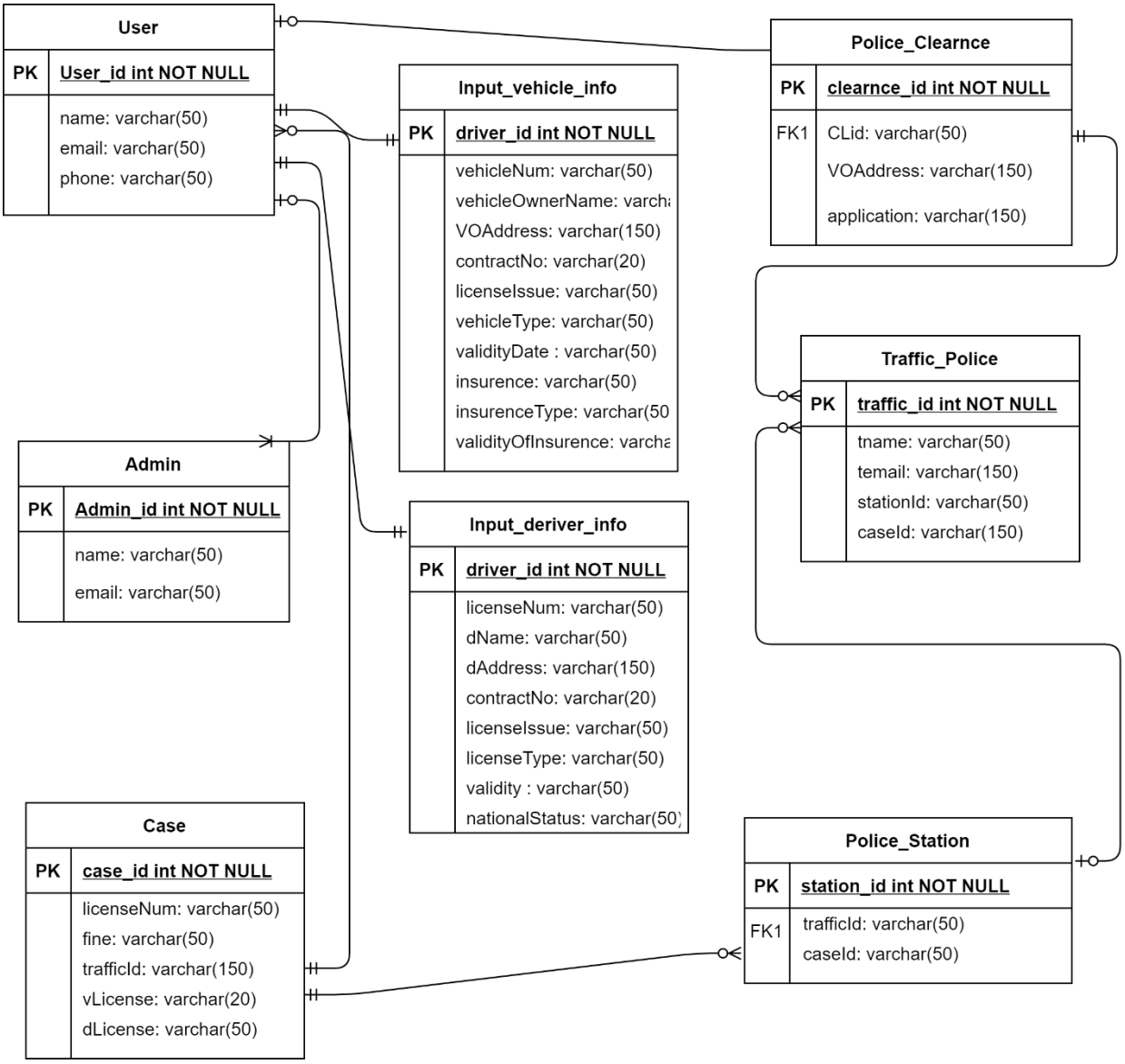


Fig: 4.6 ER Diagram

Chapter 5

System Testing

5.1 Testing Features

Testing is classified as an operation to verify that the real results conform to the predicted results and to guarantee that the device is free of defects. It is possible to view checking features as an adjustment to add additional functionality or change an existing project.

5.1.1 Features to be tested

There are some features below:

- Login
- Registration
- Manage Case
- Manage Traffic Police

5.2 Testing Strategies

Test methods decide how to handle each aspect of the application. It is a series of full instructions for the nature of the test and for each stage of the case. It specifies what sort of methodology should be implemented and which module should be tested.

5.2.1 Testing Approach

In every software project, testing is one of the essential things. It proves the efficiency of software. It also helps find glitches and errors in applications. So, the program seems to the consumer to be very basic and error-free. I have tested and validated every function one by one without any automation tool.

5.2.2 Test Category

- Integration Testing
- Module Testing

5.2.3 Success/Failed Criteria

The criterion for pass / fail test will be determined by the test engineers. It all depends on how well all of the specifications perform. When the test results are fine, a pass or a loss can be considered. In any case, I have the 100 per cent pass requirements. If, during the evaluation, a function does not operate correctly, it will be deemed a mistake.

5.3 Testing Environment

There are some key areas to set up for testing

- Operating System
- Browser
- System
- Application
- Database server
- Test data
- Network

5.4 Test Cases

5.4.1 Testing Case No-1 (Integration Testing)

Test Case ID.1	**Module name: User Registration**
Test Priority: High	**Test Date:** 12.05.2021
Test Title: User Registration valid info	**Test executed by:** Md. Nahiduzzaman
Description: Checking user registration page	**Test executed date:** 12.05.2021
Pre-condition:	User registration must be successfully
Test steps:	1. Go to login page 2. If user is not registered then registered first 3. Complete registrations with valid data
Test Data:	**Full Name:** Md Nahiduzzaman **Email:** user@gmail.com **Password:** User123456
Expected Results:	Successfully registered
Actual Result:	User Registration successful
Status (Pass/Fail):	Pass
Post-condition:	User registration Successfully.

5.4.2 Testing Case No-2 (Integration Testing)

Test Case ID.2	**Module name: Admin & User Login**
Test Priority: High	**Test Date:** 12.05.2021
Test Title: Admin & User Login Verification with valid email & password	**Test executed by:** Md. Nahiduzzaman
Description: Test Admin & User Login Page	**Test executed date:** 12.05.2021
Pre-condition:	Users must have valid email and password.
Test steps:	1. Go to login page 2. Provide valid email & password 3. Click Sign in button
Test Data:	**Admin:** Email: admin@gmail.com **Password:** admin123 **User Email:** user@gmail.com **Password:** 123456
Expected Results:	User should able to login
Actual Result:	User logged in successfully
Status (Pass/Fail):	Pass
Post-condition:	Successfully Logged in.

5.4.3 Testing Case No-3 (Module Testing)

Test Case ID.4	**Module name: Manage Case**
Test Priority: High	**Test Date:** 22.05.2021
Test Title: Traffic Police Manage Case	**Test executed by:** Md. Nahiduzzaman
Description: Traffic Police can manage case	**Test executed date:** 22.05.2021
Pre-condition:	Traffic Police must have valid data.
Test steps:	1. Click on the Manage Case 2. Click on the add/edit/update button 3. Click on add button
Test Data:	**Name:** Md Nahiduzzaman **Email:** user@gmail.com **Contract: 01773333333**
Expected Results:	Traffic Police should able to add case
Actual Result:	Traffic Police add traffic case successfully
Status (Pass/Fail):	Pass
Post-condition:	Successfully Traffic Police add traffic case.

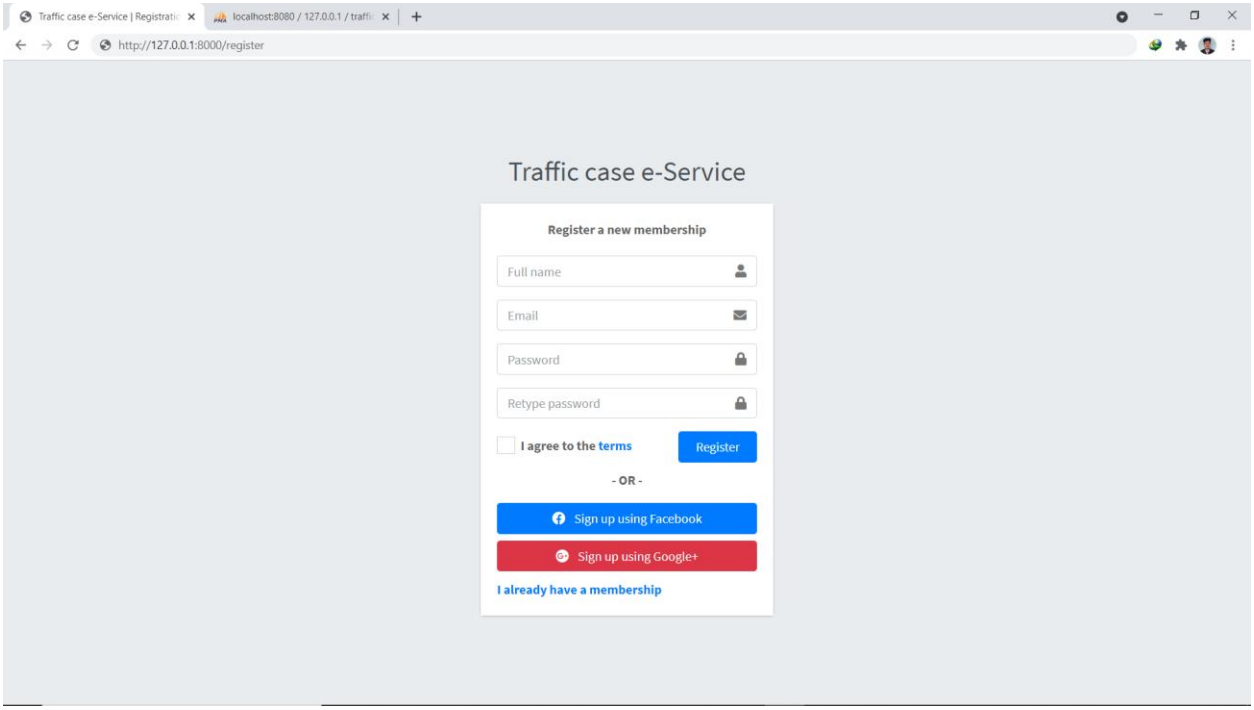
5.4.4 Testing Case No-4 (Module Testing)

Test Case ID.4	**Module name: Manage Traffic Police**
Test Priority: High	**Test Date:** 22.05.2021
Test Title: Admin Manage Traffic Police	**Test executed by:** Md. Nahiduzzaman
Description: Admin can Manage Traffic Police	**Test executed date:** 22.05.2021
Pre-condition:	Admin must have valid data.
Test steps:	1. Click on the Manage Traffic Police 2. Click on the add/edit/update button 3. Click on add button
Test Data:	**Name:** Md Nahiduzzaman **Email:** traffic@gmail.com
Expected Results:	Admin should able to add Traffic Police
Actual Result:	Admin add traffic police successfully
Status (Pass/Fail):	Pass
Post-condition:	Successfully Admin add traffic police.

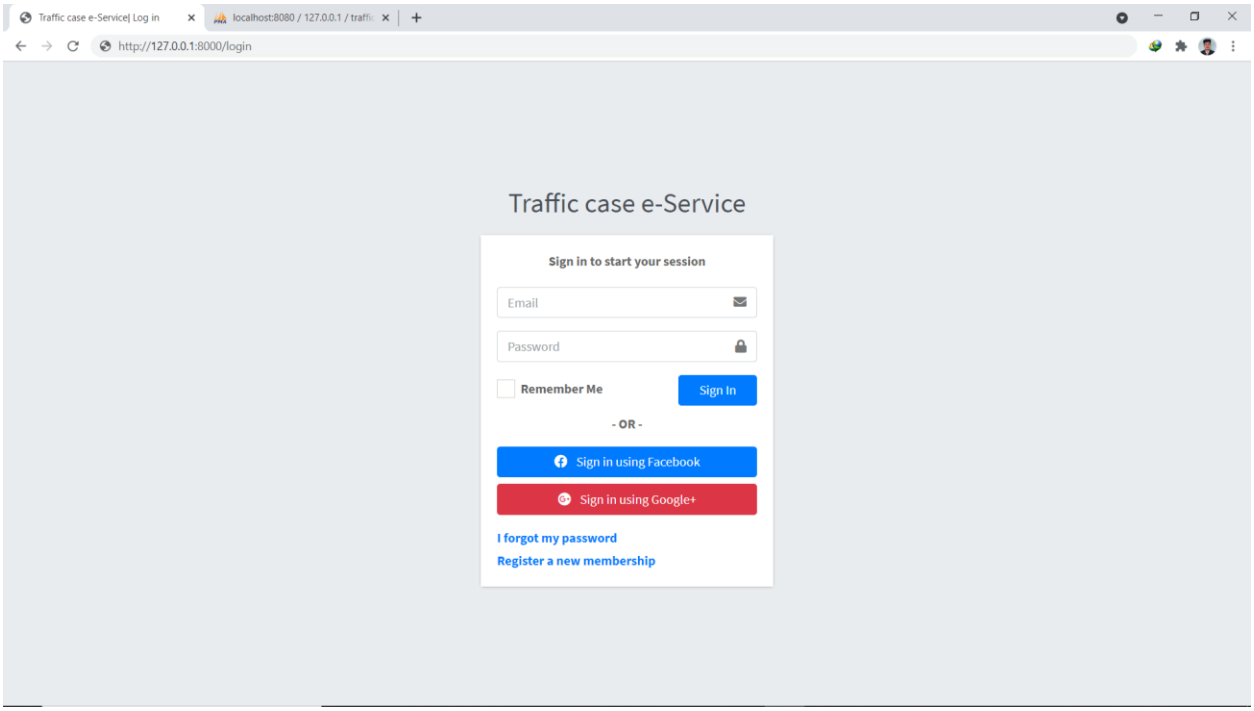
Chapter 6

User Manual

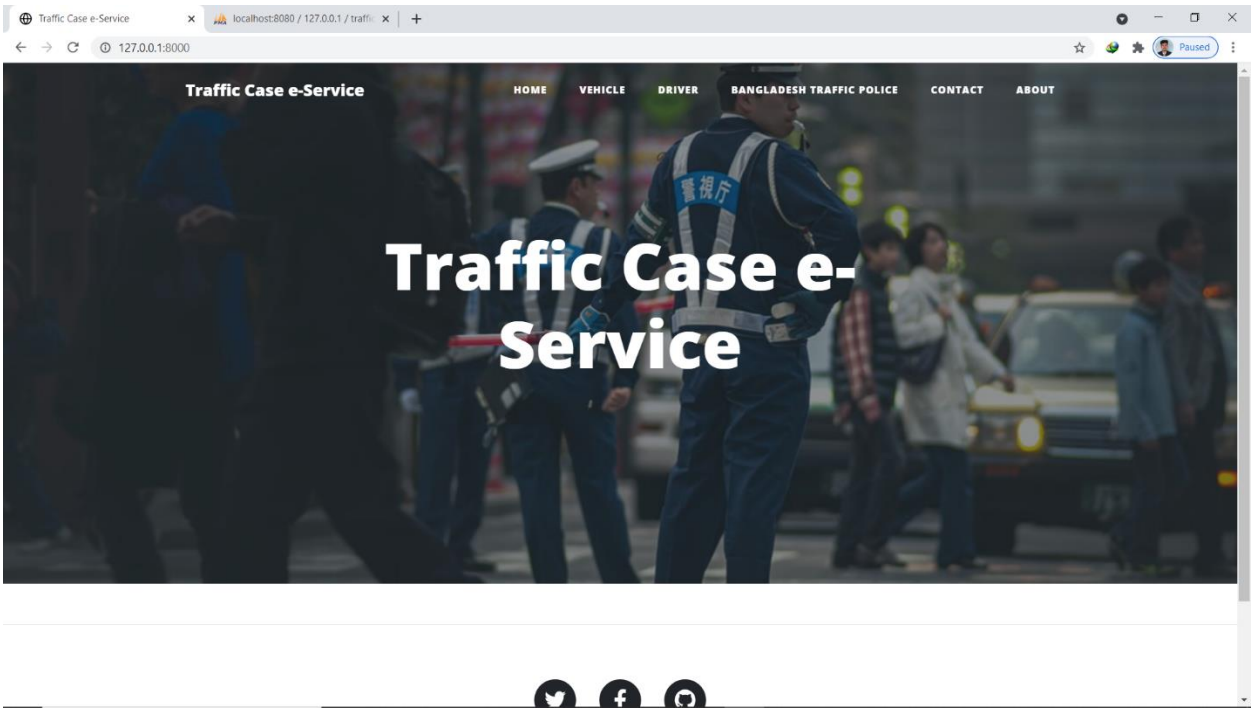
6.1 Registration



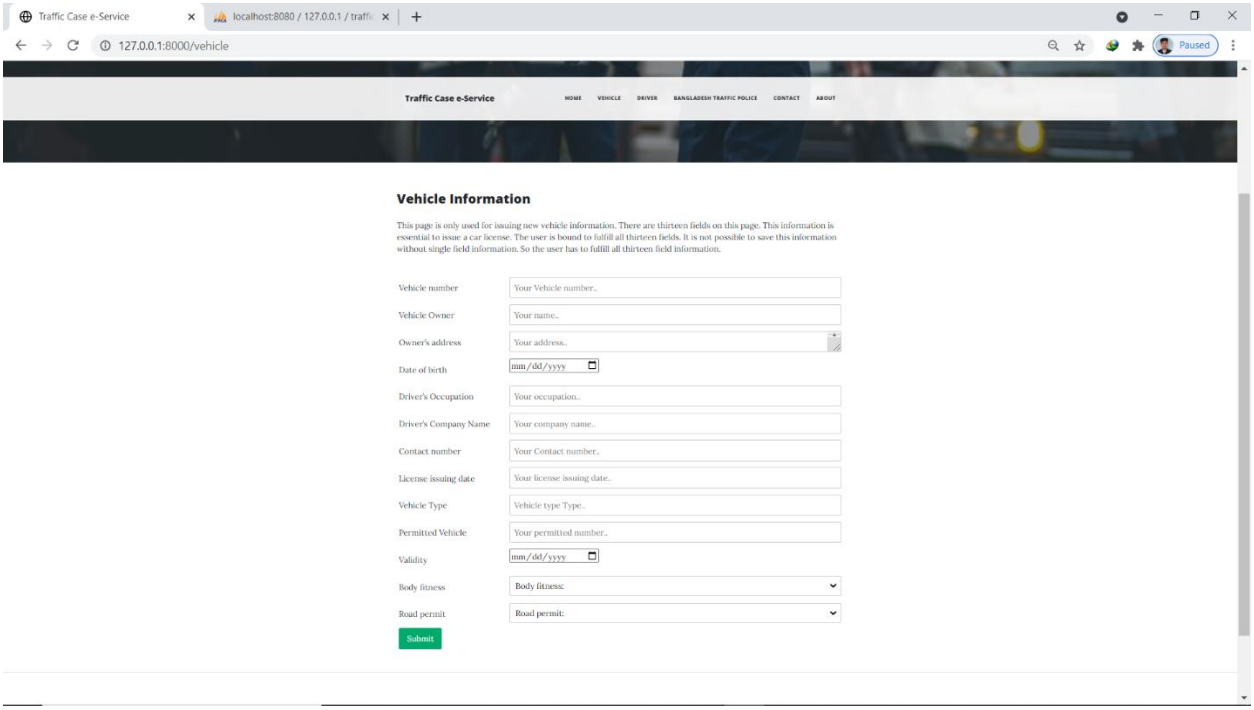
6.2 Login



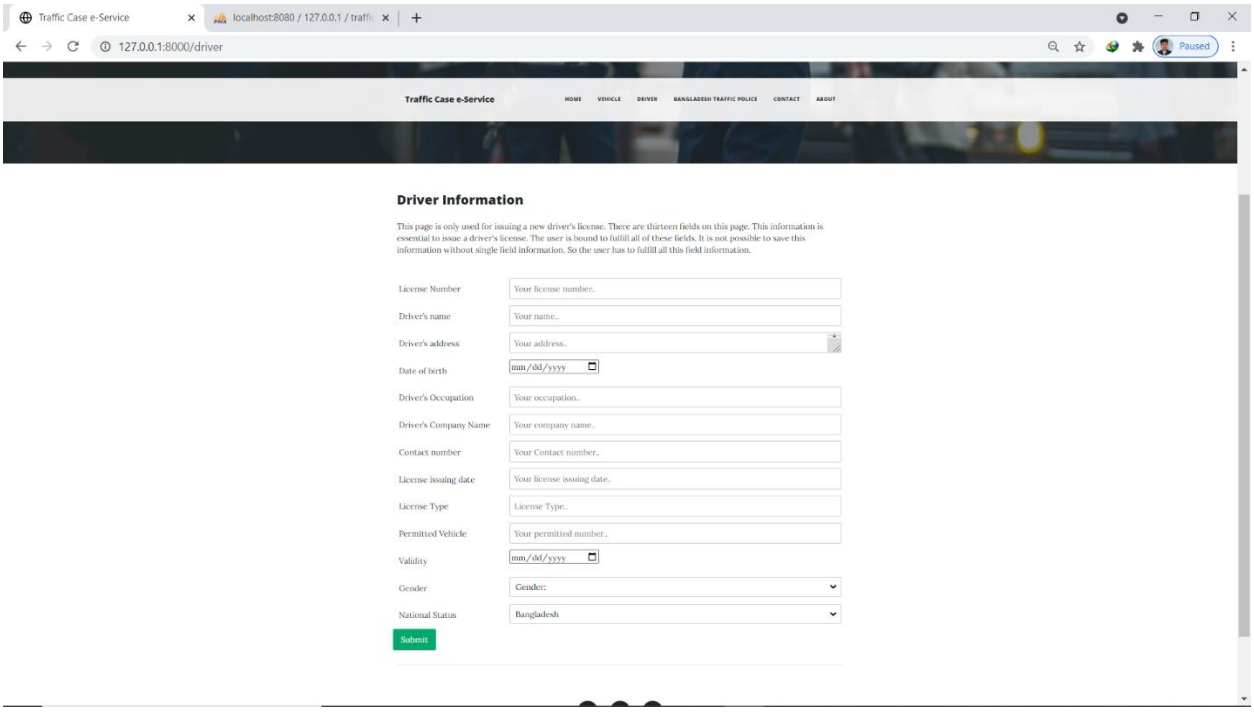
6.3 Home Page



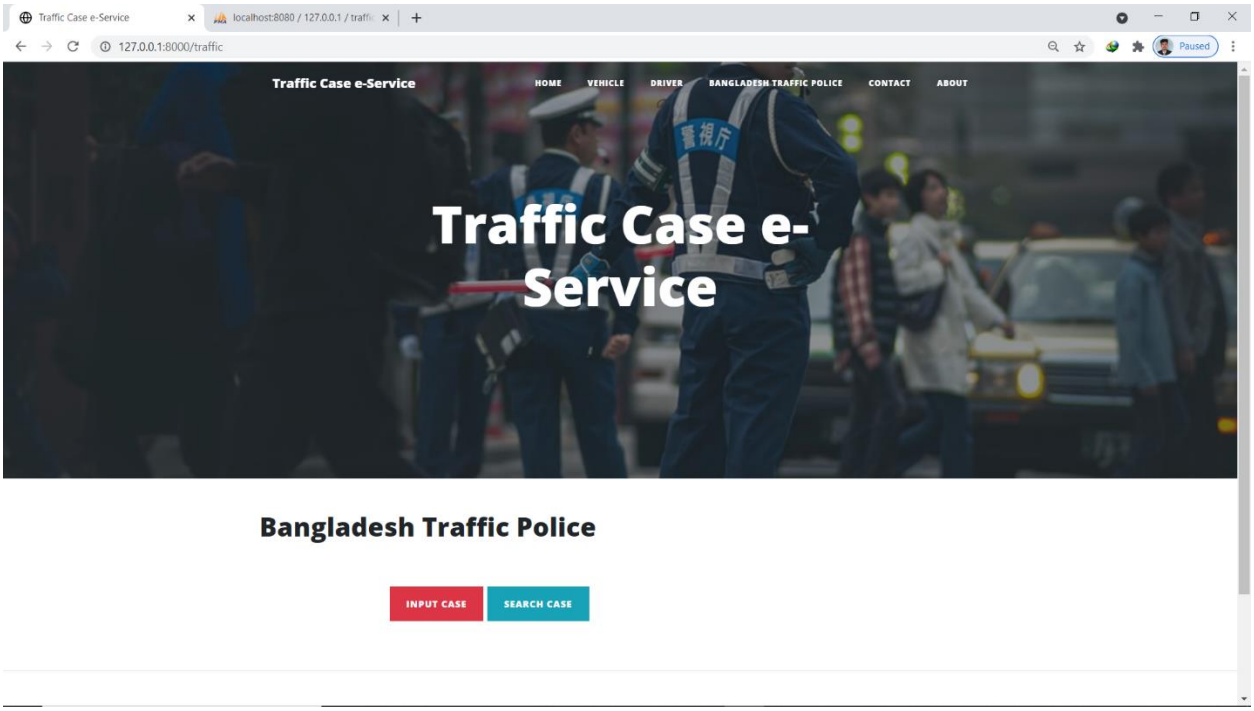
6.4 Vehicle Info Input Form



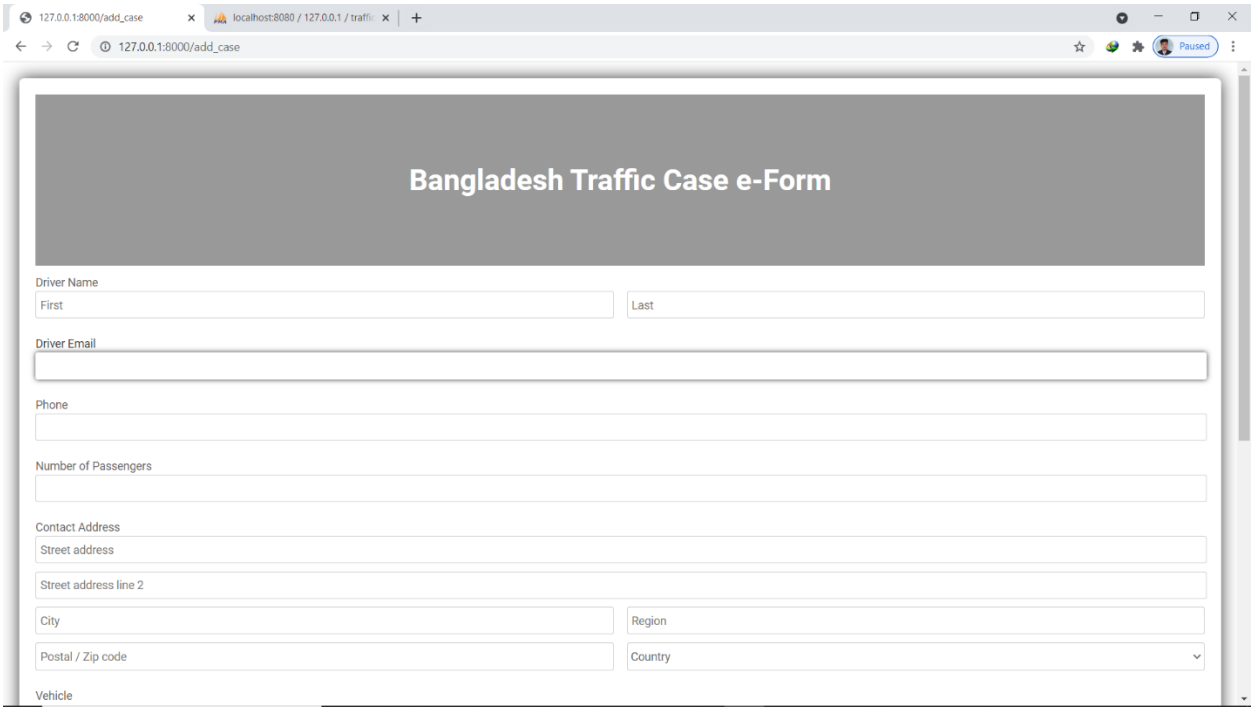
6.5 Driver Info Input Form



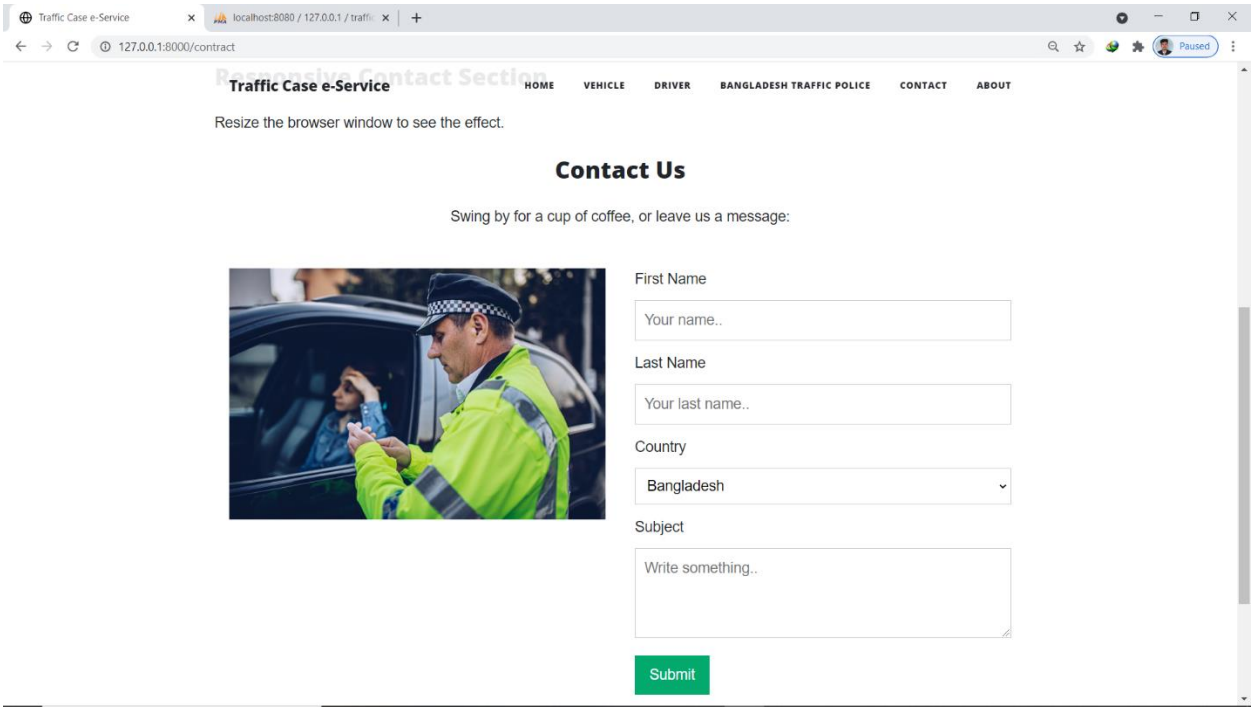
6.6 Traffic Police Page



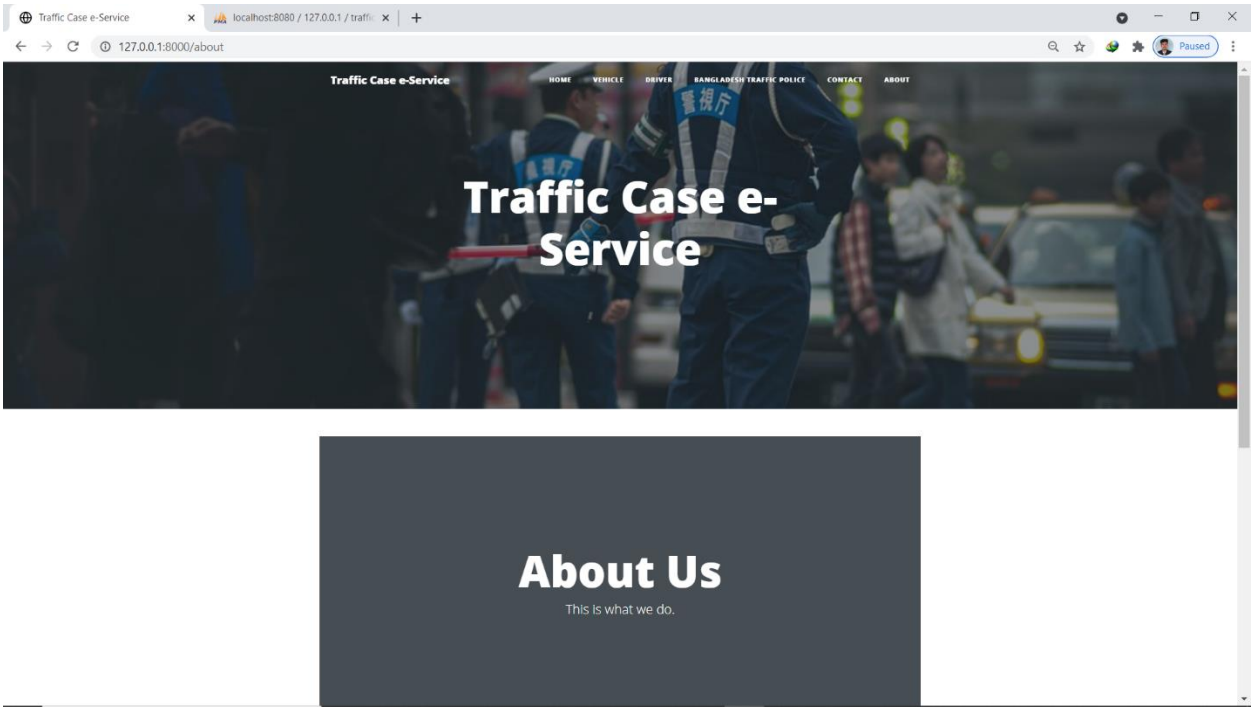
6.6.1 Traffic Case Input Form Page



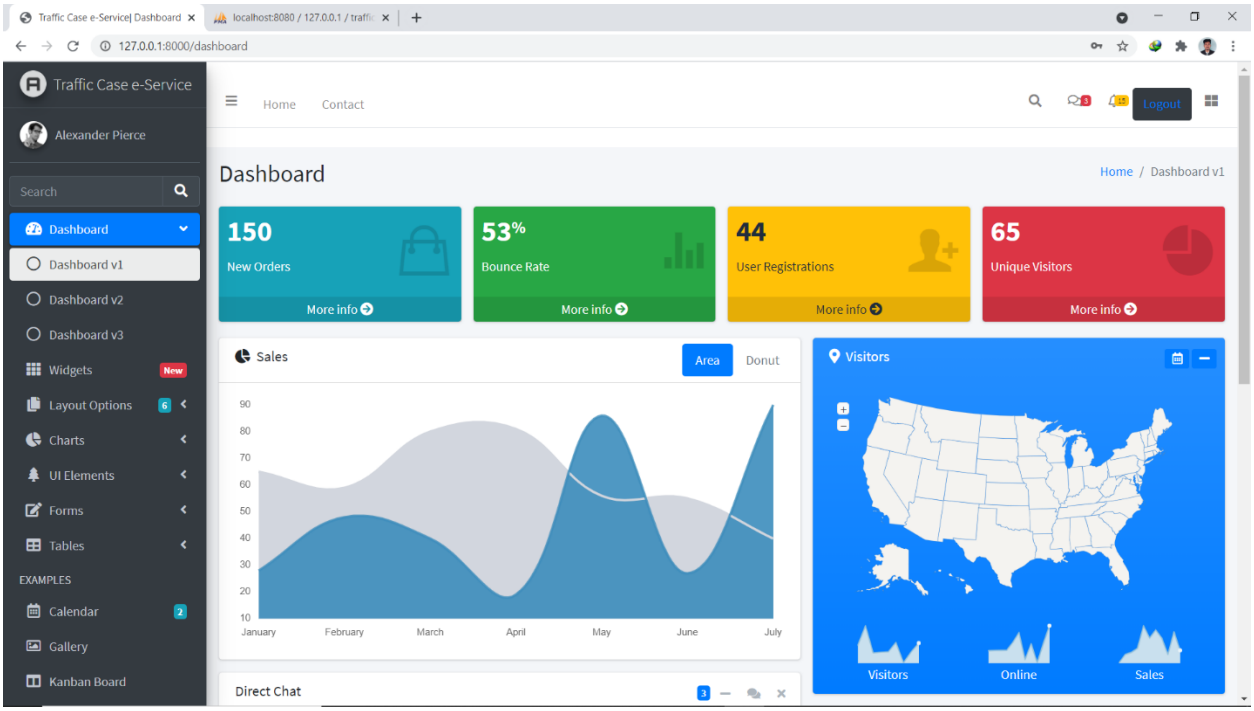
6.7 Contract Page



6.8 About Page



6.9 Admin Panel



Chapter 7

Project Summary

7.1 GitHub Link:

https://github.com/zisan2108/traffic

7.2 Limitations:

Like all the things is not 100% perfect in the world like, that my application also has some limitation. But I had to try my best to complete this application or project

Limitations are below:

I. The traffic police admin and authorized user can access the system.

II. The traffic police user can't register their own account.

III. Normal people can't access the system.

IV. Only the victim who has a case can submit a claim against the traffic police if they misbehave with the victim. The image should not be greater than 400kb.

V. The payment system is manual, not automatic.

7.3 Obstacles & Achievements

All testing was done carefully and each test was up to the required standards of the user. Error tests may be suggested but the above-mentioned are just sufficient to test. Testing is an essential phase in system development and therefore it should be taken with a lot of interest.

7.4 Future Scope

In the future, it can be included in Government features.

I. We will add a phone SMS system for better usability.
II. We will add its own payment system.
III. We will make it more reliable and user-friendly for traffic police and victims.
IV. We will make an android application.
V. We will update our application periodically.

References

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https://searchsoftwarequality.techtarget.com/definition/systems-development-life-cycle

2. Traffic Police Case details

https://www.police.gov.bd/

3. Diagram Art

https://www.draw.io/

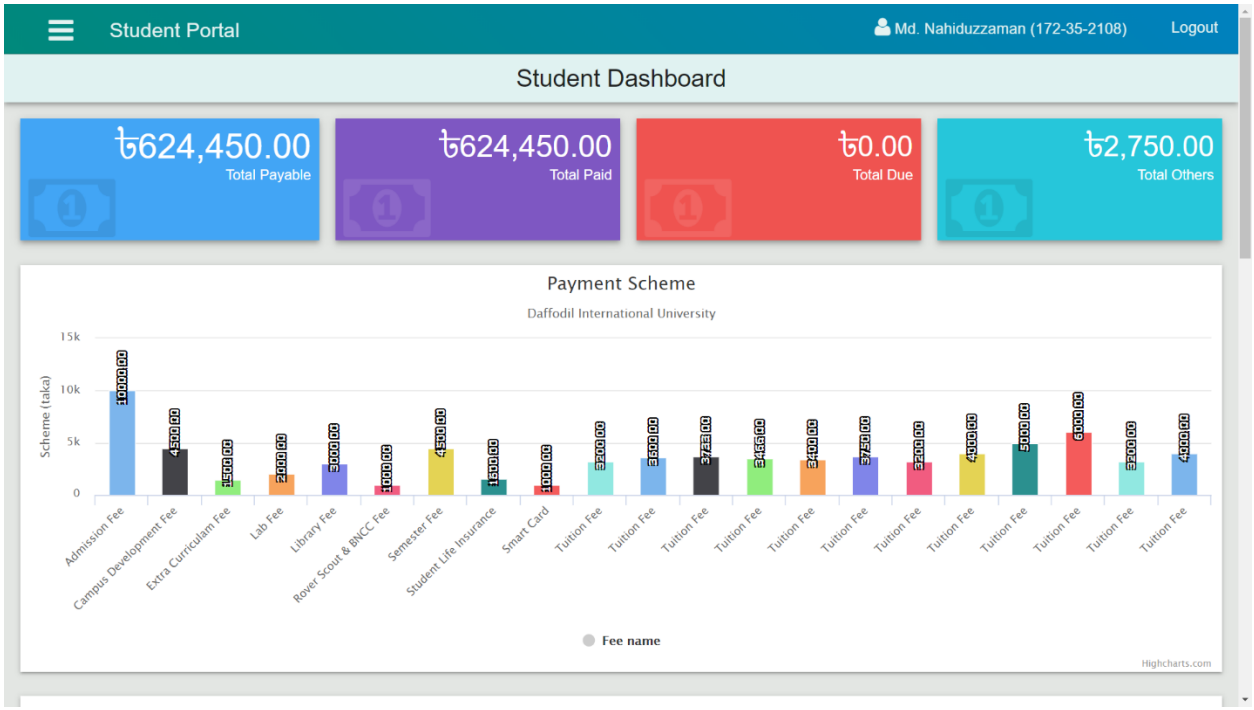
4. Some idea from

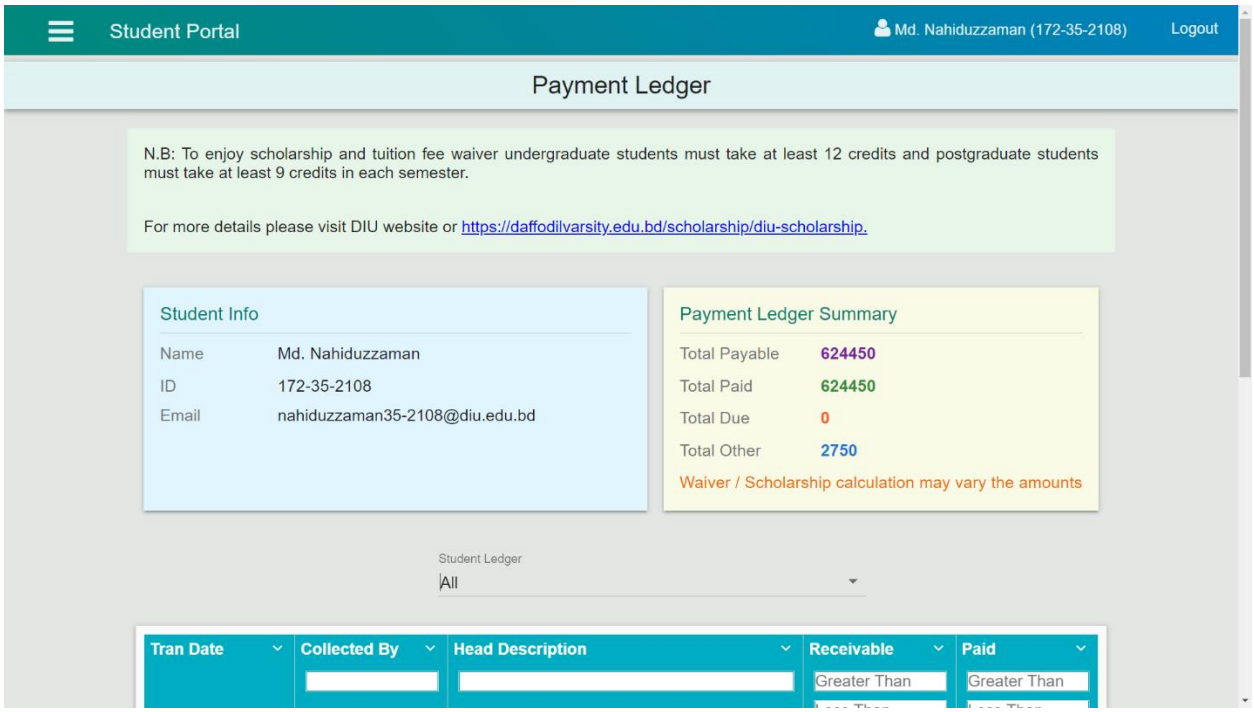
http://dspace.bracu.ac.bd/xmlui/handle/10361/212

5. Use some information

https://www.w3schools.com/php/default.asp

Accounts Clearance





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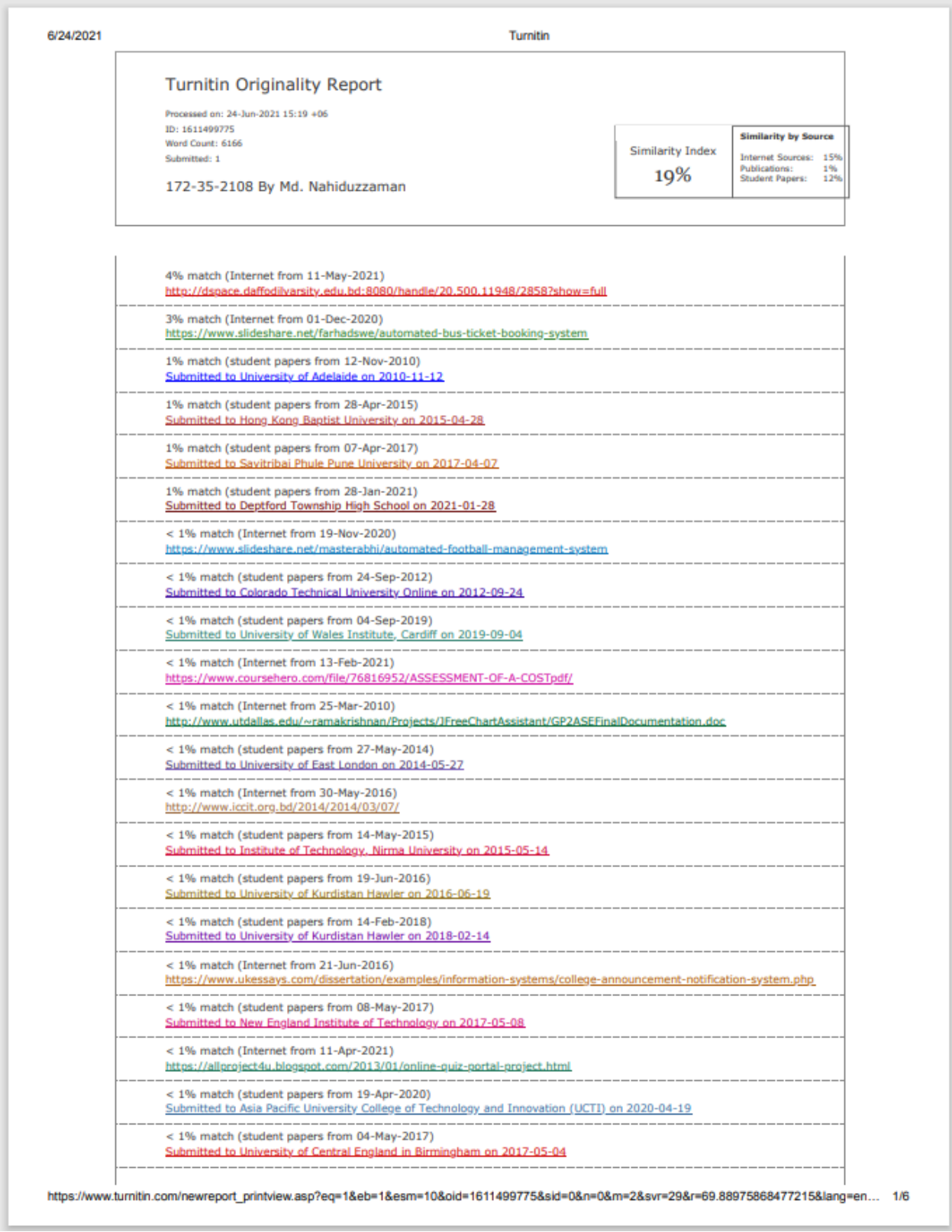

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