

Bangladesh Traffic Police Case Management System

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This Report Presented in Partial Fulfillment of the Requirements for the Degree
of Bachelor of Science in Software Engineering

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DHAKA, BANGLADESH

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Board of Examiners

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**. 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 award of degree.

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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.

EXECUTIVE SUMMERY

This project entitled “Bangladesh Traffic Police Case Management System” is a web based system. This will work for traffic police of Bangladesh for register new case, and the victim can dismiss their case from anywhere in Bangladesh.

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

It is very helpful project for Bangladesh traffic police. The main purpose of my system is register new case against vehicle driver or owner and sent information to the vehicle owner. Now a days most of the time the traffic police have to bear invoice for write new case, on the other hand the vehicle owner doesn't know about their driver offence which he or she occurs in the road. In this system the traffic police can write case in internet, and the vehicle owner can know about their driver offence. The other functionality is that the driver or victim can dismiss their case from anywhere in Bangladesh, they don't need to go any specific police station for dismiss their case.

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

The modern technology is used to implement an automated system to make it more secured PHP object oriented concepts.

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Chapter 1

Introduction

1.1 Motivation

The main purpose of this system is to inform the car or vehicle owner about their driver offence that he or she occurs in 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. This system will help vehicle owner or driver to dismiss their case from anywhere of the country as well as inform the vehicle owner about his or her driver offences. The project will ensure the security issue. For the system the vehicle owner have to provide their email id with vehicle licensee or vehicle insurance paper.

1.2 Current System

Now a days the traffic police have to carry case invoice for write a case. The driver or vehicle owner have to go to a specific police station for dismiss their case. On the other hand most of the time the vehicle owner doesn't know about their driver offence which he or she occurs in the road. But this project or system will help the owner or drier as well as the traffic police. This system is very much user friendly for both the vehicle owner or driver and traffic police.

1.3 About the Project

We have developed a system which is for traffic police case online system. This system will work for two type 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 surgeon as traffic police user, they can be able to observe traffic police user's activity. The traffic police user can be able to assign 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 offence with photography for security system. If any traffic police misbehave with driver or owner then he or she can claim against the traffic police.

1.4 Objective

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

1.5 Schedule and Budget

Estimative Budget

Equation: $\text{Cost} = \text{Day} * \text{Payment}$

Sum = all cost will be added and make result

Table: 1.1 Budget

Budget	Day	Cost	Day * Cost = Total
Requirement engineer	13	1500	1950
Requirement analyst	17	1200	20400
Project manager	94	500	47000
Budget for worker	5	1500	7500
Designer	15	1500	22500
Developer	40	1000	40000
Verification	7	200	1400
Testing	7	1000	7000
Maintenance	7	200	1400
Documentation	7	200	1400
Total			166700 Taka

Table: 1.1 Budget

Table: 1.2 Schedule

Phase	Start Date	Planned Submission Date	Working day
Proposal	1 Nov. 2017	7 Nov. 2017	7
Requirement collection	8 Nov. 2017	12 Nov. 2017	5
Requirement analysis	13 Nov. 2017	17 Nov. 2017	5
Software Requirement Specification	18 Nov. 2017	23 Nov. 2017	6
Project plan	24 Nov. 2017	30 Nov. 2017	7
Prototype Implementation	31 Nov.2017	19 Dec. 2017	20
Testing and Result	19 Dec. 2017	26 Dec. 2017	8
Total Working Days			58 days

Table: 1.2 Schedule

1.6 About the report

We have describe all information how to access our site and every part description with interface and diagram. It is very useful for traffic police admin user and simple user, as well as the owner or driver who can assign claim against traffic police. We have also specify the overall topic so that user and developer can easily understand this system. We maintained this report with a structure so that the developer also can understand for the future.

Chapter 2

Requirement Specification

2.1 Product Perspective

Bangladesh Traffic Police Case Management System, in this project we made a simple system user interface that the user can understand the topic. Traffic police admin user can assign new traffic police user but the traffic user can't make their own account in this project. The traffic police admin user are assign by the super admin. After assign traffic police admin user they can assign new traffic police user. When simple traffic police user assign complete then they can register new case against the driver. The simple traffic police user also can dismiss case of drivers. There is an option that is payment, the traffic police user can take payment from the victim and can dismiss the case. The victim or driver can see his case status in this project.

2.2 Functional Requirements

The following requirements are the functional requirements of proposed system:

- I. **Traffic police admin registration:** This process is done by super admin directly.
- II. **Traffic police admin login:** Traffic police admin can login in this system after registration.
- III. **Traffic police user registration:** Traffic police admin user can assign new traffic police user.
- IV. **Traffic police user login:** Traffic police user can login in the system after registration.
- V. **New case:** Traffic police user can register new case against vehicle driver in this system.
- VI. **Case ID:** The case ID will be generate automatically.
- VII. **Email sent:** After new case registration an email will sent to the vehicle owner with driver photography and case details.
- VIII. **Case details:** The traffic police user can see case details using case ID and also can see is the case is finished or not.
- IX. **Payment:** The traffic police user can take payment form the victim and can dismiss the case using case ID.
- X. **All case:** The traffic police can see how many case he register or dismiss in this month.
- XI. **Case position:** The vehicle driver or owner can see his case's current status and position in this system.
- XII. **Submit claim:** The victim or driver who has a case can submit claims against traffic police user if he misbehave with the victim.

2.3 Non Functional Requirements

The following requirements are the non-functional requirements of the proposed system:

- I. Security
- II. Availability
- III. Reliability
- IV. Performance
- V. Maintainability
- VI. Software design pattern
- VII. Software platform to run

Table: 2.3 Non – functional requirements are shown in following table

Module	Requirement title	Priority
Security issues	Session injection and ensure session will be deleted while logout	High
Reliability issues	Can be load with huge data in database	Medium
Performance	System performance is well and has enough speed to satisfy user	Medium
OS	Support all OS and web browser	Low
User interface	User friendly	Low
Usability	Usable for any web environment	Low

Table: 2.3 Non – functional requirements

2.4 User Characteristics

2.4.1 Bangladesh traffic police case management system: Traffic Admin

The system the traffic admin user is one of the important part. Because unless they assign new traffic police user, the traffic police user can't use the system. Traffic admin assign new traffic police user and then the traffic police user are able to register new case against the driver or owner. So Traffic admin user is one of the most important part of the project.

2.4.2 Traffic police user

The most important part of the project is Traffic police user. They register new case against the vehicle driver or owner. When they assign new case an email will be sent to the vehicle owner with photography and case details. The traffic police user also can take payment from the victim and dismiss the case. They also can transfer case to a different police station if need.

2.4.3 Driver or Owner

The driver or owner can search their case using case ID to know about current status, and where the case is. The owner may know about his or her driver offence. The driver or owner can dismiss their case from anywhere of the country.

2.5 Use case Diagrams

2.5.1 Diagrams

Figure: 2.1 Traffic Police Admin User

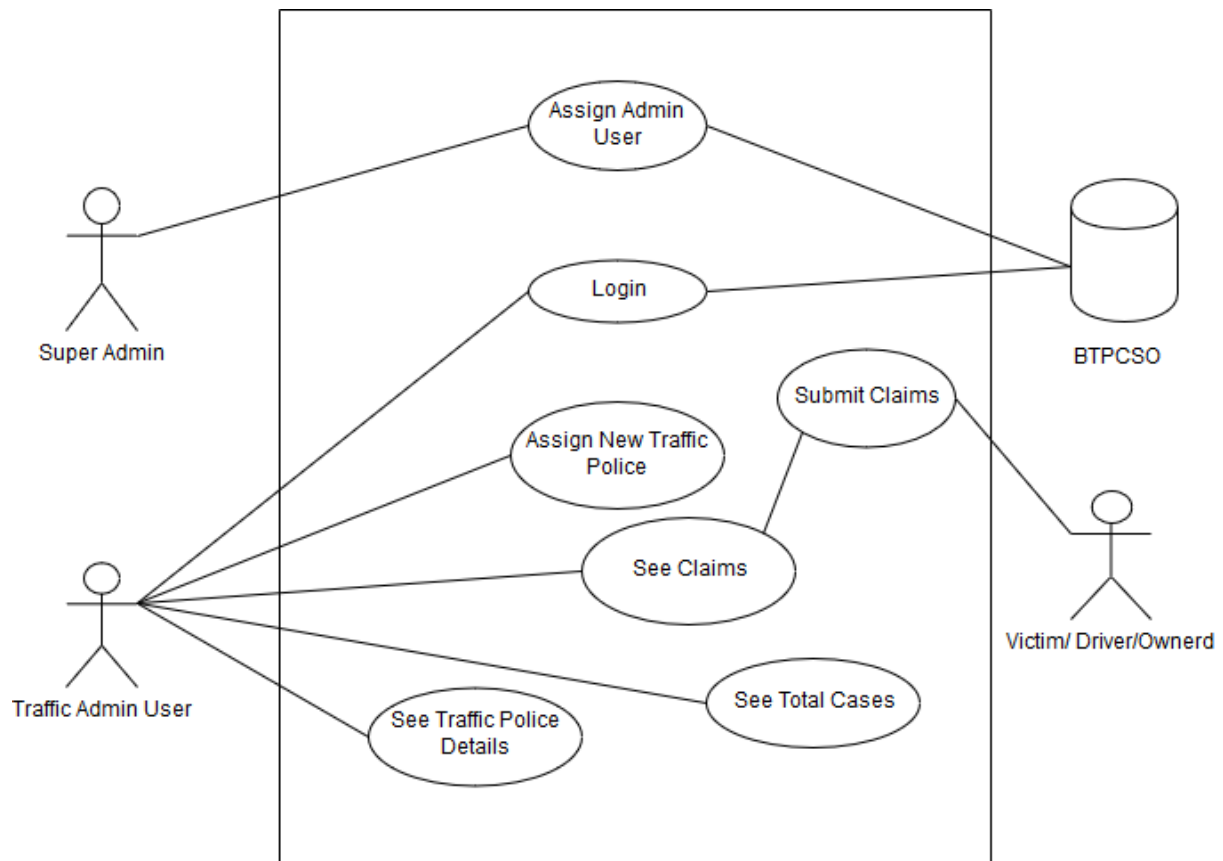


Figure: 2.1 Traffic Police Admin User

Figure: 2.2 Traffic Police User

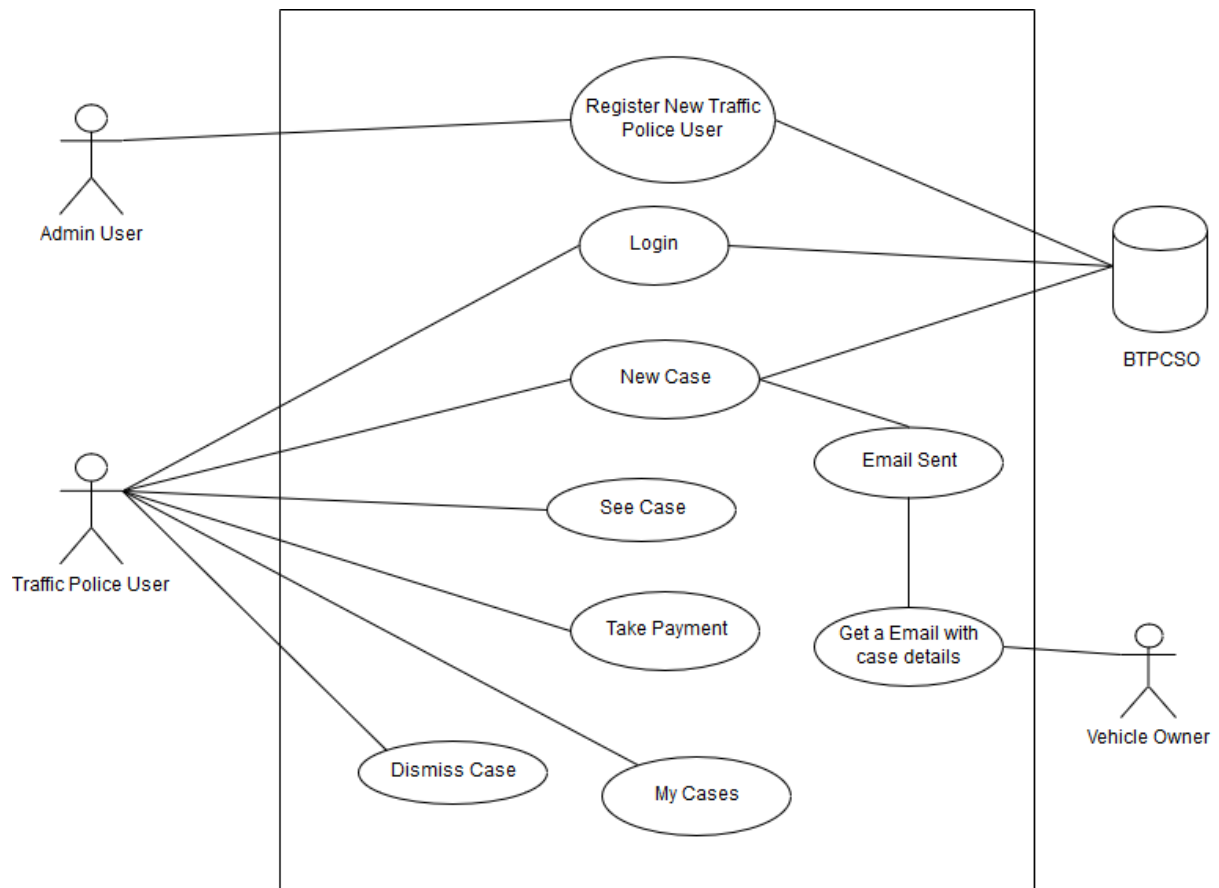


Figure: 2.2 Traffic Police User

Figure: 2.3 Vehicle Driver or Owner

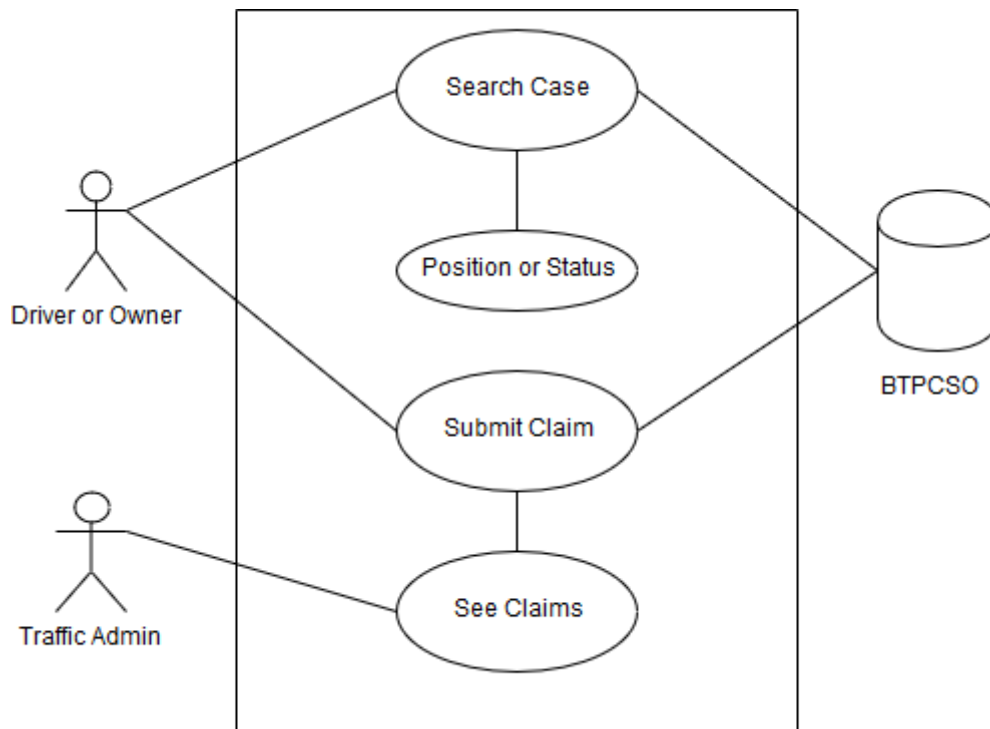


Figure: 2.3 Vehicle Driver or Owner

2.5.1 Use case Diagram details:

Super User: Super user will assign traffic police admin users.

Admin User Login: Assigned admin user can login to the system.

Register New traffic police: Traffic police admin user will register new traffic police.

See Claims: Traffic police admin user can see the claims against the traffic police normal user.

See total case: Traffic police can see the total cases.

See traffic details: The admin user can see the traffic police details.

Traffic police user login: The normal traffic police can login in the system.

Register New case: The normal traffic police case user can register new case against the driver or car owners.

Sent email: When a new case is assign then an email will sent to the vehicle owner's email.

See case: The traffic police can see the cases.

Take payment: The traffic police can take payment from the victims.

Dismiss case: By taking payment the traffic police can dismiss case of victims.

Search case: The victim can search their case and can see their case current status.

Submit claims: The victim can put their claims against the traffic police if they misbehave with the victims.

2.6 Analysis Model

In software engineering there are many models. This models helps developer to implement a well – structured software design. Some common process models are:

- ✓ The waterfall model
- ✓ Incremental model
- ✓ Development process
- ✓ Evolutionary development
- ✓ Iterative development process
- ✓ Component – based software engineering

2.6.1 Model Diagram

I developed this software following Waterfall Model.

Figure: 2.4 Waterfall Model

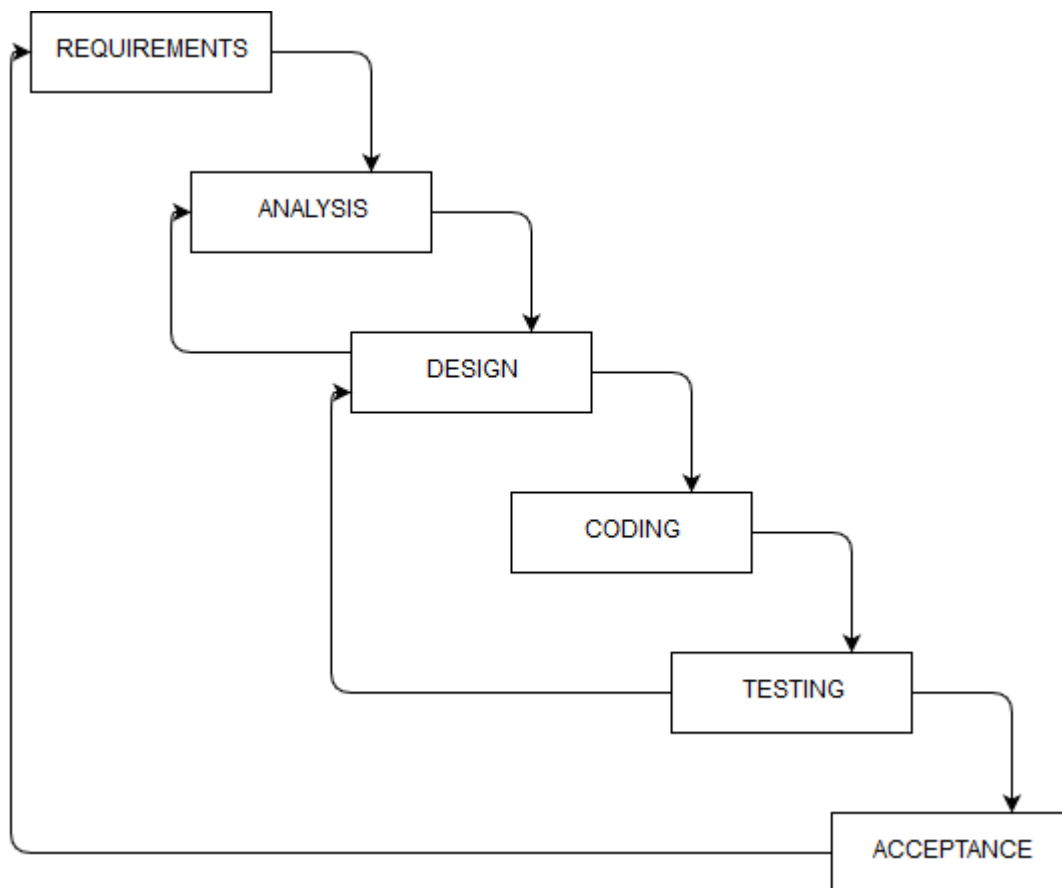


Figure: 2.4 Waterfall Model

2.6.2 Sequence Diagram

Figure: 2.5 Sequence Diagram

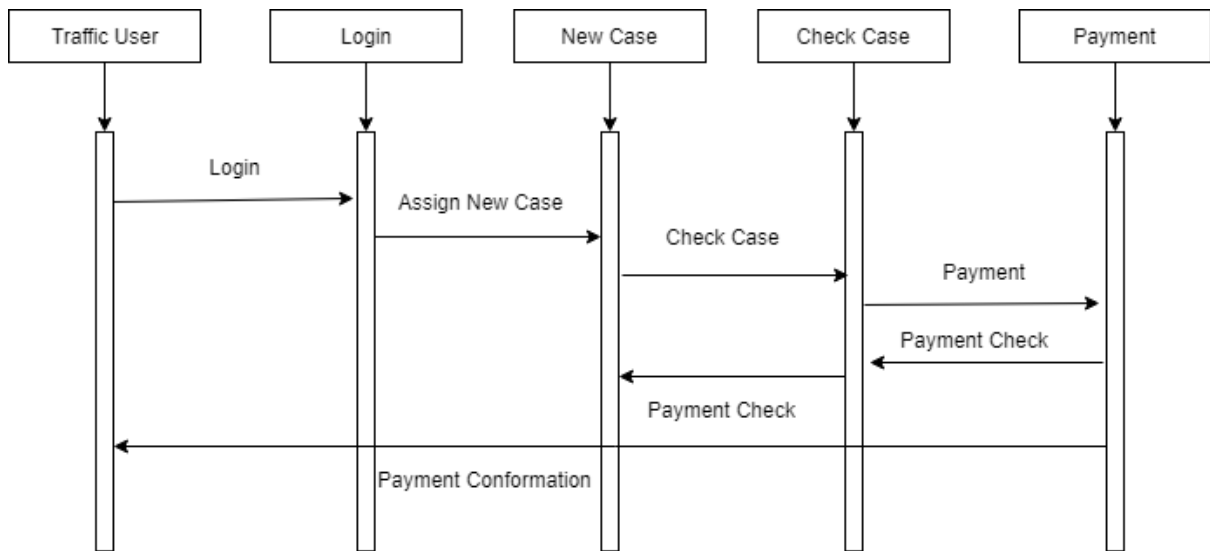


Figure: 2.5 Sequence Diagram

2.6.3 Data flow Diagram

Figure: 2.6 Data flow Diagram

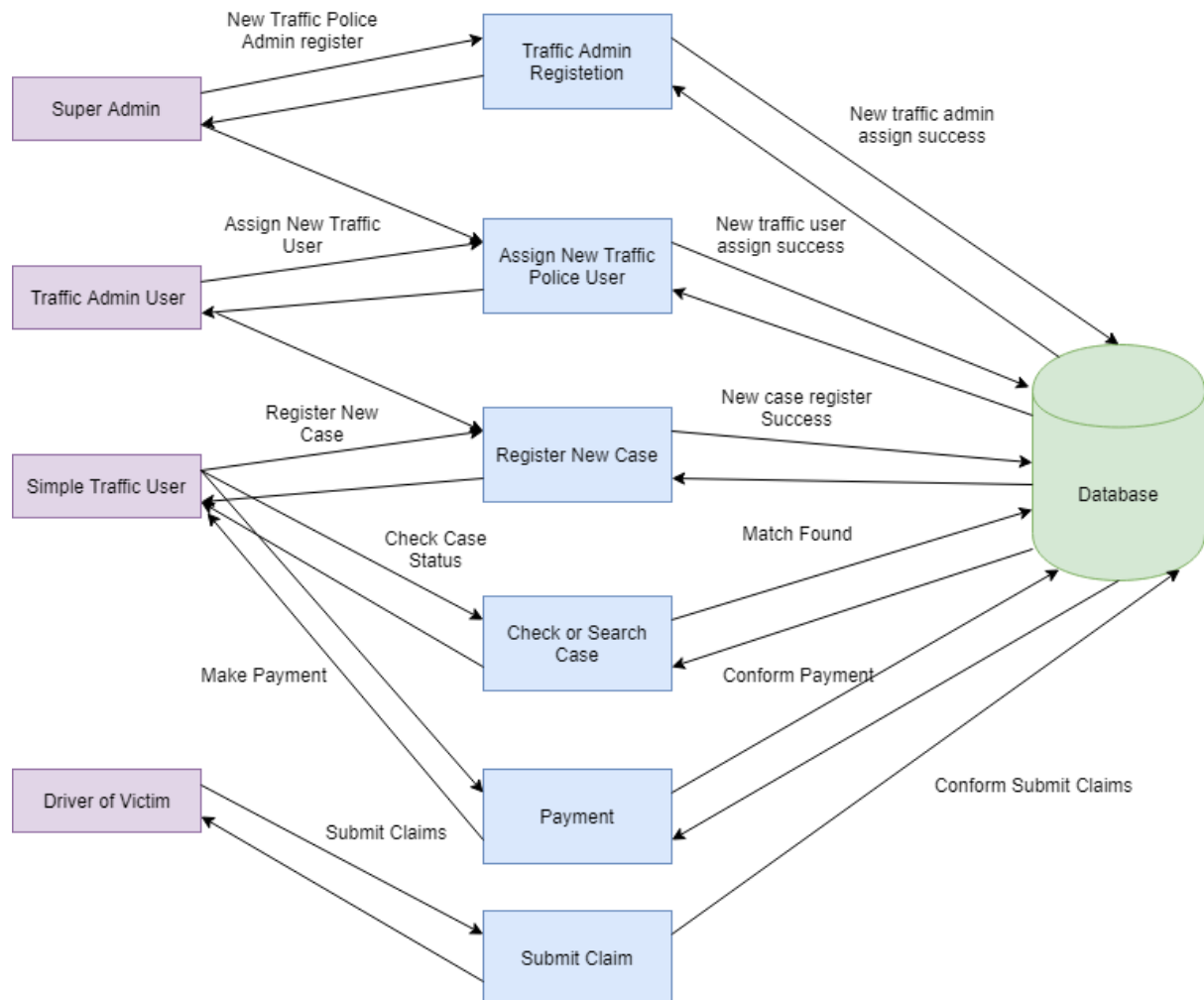


Figure: 2.6 Dataflow Diagram

2.7 Assumption and Dependencies

2.7.1 Data Entry

Though the data entry operation is out of the scope of the Bangladesh traffic police case management system, but for giving it a standard look our team has added some meaningful data of check the compatibility of the system. Supply of correct information is possible only when valid data is entered in the database.

Since the data entry is a separate task and will be performed by authority. The authority will be responsible for the validity of the information to be provide to the user through online system.

2.7.2 Server / Hardware Performance

Bangladesh traffic police case management system is not responsible for providing server or hardware. However, the performance of software sometimes depends on the hardware or server machine in which it is running.

2.7.3 Browser Dependency

The Bangladesh traffic police case management system will be compatible with any JavaScript enable open standard browsers, and it will also support Internet Explorer (IE), Mozilla Firefox (any latest version) and other compatible browsers.

Chapter – 3

Design & Development

3.1 Design and Implementation Constrains

3.1.1 Software Language

Object Oriented PHP

3.1.2 File Management

Controller (Access Layer):

- ✓ Traffic Police Admin Controller
- ✓ Traffic police user Controller
- ✓ New case Controller
- ✓ Search Controller
- ✓ Payment Controller

Quarry and Model file:

- ✓ Traffic Police Admin Configuration
- ✓ Traffic Police user Configuration
- ✓ New case ID Configuration
- ✓ Image Configuration
- ✓ Driver offence Configuration
- ✓ Drive given prove Configuration
- ✓ Payment Configuration

3.1.3 Database Design or Architecture

Database: MySQL

3.2 Development tools and technology

3.2.1 Tools

- ✓ IDE: JetBrains PhpStorm 2017.2.4 x64

3.2.2 Technology

- ✓ Database: MySQL
- ✓ UI / UIX: HTML5, CSS3, Bootstrap, JavaScript, jQuery
- ✓ Back – end: OOP PHP
- ✓ Web Server: Apache

3.3 Proposed Software Architecture

3.3.1 Subsystem Decomposition

Bangladesh traffic police case management system is a system that works for the Traffic police admin user and simple traffic police user for assign new traffic police user and for register case against the vehicle driver or owner who occurs issue in the road. The super admin can add Traffic police admin user and the traffic police admin user can add the simple traffic police user. The simple traffic police user can register new case against vehicle driver or owner and an email will sent to the vehicle owner with driver photo and case details with case ID. They also can dismiss case using case ID by taking payment from the victim. Thus this system will work.

3.3.2 Access control and security

The traffic police admin user will assign new traffic police user. The new traffic police user case register new case against driver in this system. Only Super admin, Traffic police admin user, and the simple traffic police user can access the main functionality in the system. The victim also has the access to see his current case status and position. The victim can also submit claim against traffic police user if they misbehave with the victim or others on duty.

3.3.3 Global software control

This system can be access from all over Bangladesh. Any authorized traffic police admin user or simple traffic police user can access this system in any division or district in Bangladesh. The driver or victim or owner also can see about their case status from anywhere in Bangladesh and also can dismiss case from anywhere. So this system is huge useful for both traffic police as well as the victim and owner of the vehicles.

3.3.4 Boundary Conditions

This system can be access from only Bangladesh. Only Bangladeshi traffic police and driver or victim can use the system.

3.4 Database Design

3.4.1 Data Dictionary:

Table: 3.4 name: c_panel_user (Traffic police admin user)

Field Name	Caption	Data type	Field size
Id	Identity	Int	11
Username	Username	Varchar	50
Name	Full name	Varchar	50
Password	Security	Varchar	50

Table: 3.4 name: c_panel_user (Traffic police admin user)

Table: 3.5 name: traffic_police (Assigned new traffic police)

Field Name	Caption	Data type	Field size
Id	Identity	Int	11
Full_name	Full Name	Varchar	255
Email_id	Contact	Varchar	255
Phone_number	Contact	Int	11
Police_id_no	Police Identity	Varchar	255
Police_user_id	New Police ID	Int	11
Password	Security	Varchar	255
Save_date	Assigned at	Varchar	20
Update_on_date	Update at	Varchar	20

Table: 3.5 name: traffic_police (Assigned new traffic police)

Table: 3.6 name: driver_owner_details (Driver and owner details)

Field Name	Caption	Data type	Field size
Id	Identity	Int	11
Case_number	Case ID	Varchar	50
Traffic_police_id	Traffic ID	Int	11
Driver_name	Driver full name	Varchar	255
Driver_address	Driver Address	Text	Infinity
Driver_mobile	Driver Mobile NO	Int	11
Owner_name	Vehicle owner	Varchar	255
Owner_email	Owner Email ID	Varchar	255
Vehicle_no	Car Number	Varchar	255
Occurrence_place	Occurrence Place	Varchar	255
Occurrence_date	Occurrence Date	Varchar	30
Occurrence_time	Occurrence Time	Varchar	30
Last_appo_date	Last Date	Varchar	30
Confirm_check	Conformation Check	Int	11

Table: 3.6 name: driver_owner_details (Driver and owner details)

Table: 3.7 name: driver_occurrence_details (Driver occurrence details)

Field Name	Caption	Data type	Field size
Id	Identity	Int	11
Case_id	Case Number	Varcher	40
Fine	Amount taka	Int	11
Comment	Comments	Text	Infinity
Image_name	Image name	Varchar	500
Image	Driver Image	Blob	Infinity
Confirm	Conformation check	Int	11

Table: 3.7 name: driver_occurrence_details (Driver occurrence details)

Table: 3.8 name: payment (Payment proves)

Field Name	Caption	Data type	Field size
Id	Identity	Int	11
Police_user_id	Traffic user ID	Int	11
Case_number	Case Number	Varchar	50
Amount	Amount taka	Int	11
Dismiss_date	Case finish Date	Varchar	30

Table: 3.8 name: payment (Payment proves)

3.4.2. Database Relation

Figure: 3.7 Database Relationship

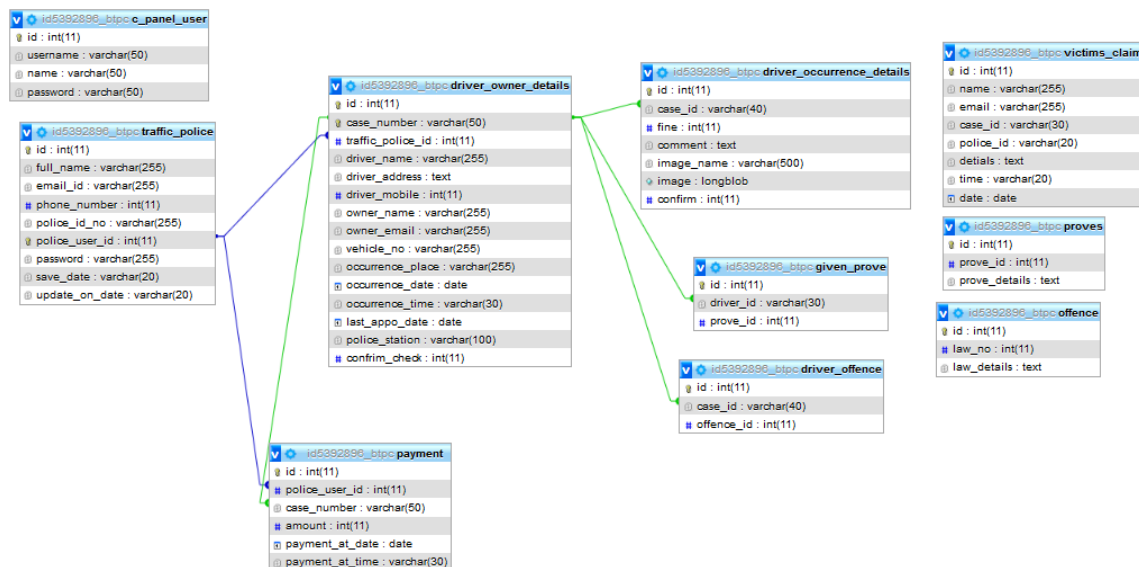


Figure: 3.7 Database Relationship

Chapter 4

Test Plan

In this chapter I will discuss about the errors and the correction. This will help the system to be correct. Test plan aids in effective and systemic testing.

4.1 Important of testing:

1. Testing helps to find out the errors.
2. Testing helps to write correction of errors.
3. Testing ensure the software quality also.

4.2 Test plan strategy:

Test plan is very effective to implement testing with software. Here I make a standard test plan document that will also provide the priority. If any steps was failed I made correction with that steps. I documented all the steps and the results. I actually implemented five test strategy here.

They are below:

- ✓ Unit testing
- ✓ Integration testing
- ✓ System testing
- ✓ Acceptance testing
- ✓ Recovery testing

4.2.1 Unit testing:

Table: 4.9 all the test case of unit testing is documented here

Test case ID: 1	Module name: Registration
Module: New traffic police user registration page value check	Test designed: Amit
Test priority: (Low/Medium/High): High	Test date: 20.12.2017
Test title: Validation for user	Test executed by: Amit
Description: Test the validation page for proper validation	Test executed date: 20.12.2017

Table: Test case ID: 1

Test case ID: 2	Module name: Search for case ID
Module: Case information search	Test designed: Amit
Test priority: (Low/Medium/High): Medium	Test date: 20.12.2017
Test title: Checking case ID list	Test executed by: Amit
Description: Vehicle driver or owner can search the case information	Test executed date: 20.12.2017

Table: Test case ID: 2

Test case ID: 3	Module name: Claims
Module: Submit Claims	Test designed: Amit
Test priority: (Low/Medium/High): Low	Test date: 20.12.2017
Test title: Submit Claims against traffic police	Test executed by: Amit
Description: Victim can Submit Claims against traffic police.	Test executed date: 20.12.2017

Table: Test case ID: 3

Test case ID: 4	Module name: Register new case
Module: Register new case against vehicle driver or owner	Test designed: Amit
Test priority: (Low/Medium/High): High	Test date: 20.12.2017
Test title: Register new case	Test executed by: Amit
Description: The traffic police can register new case against vehicle driver or owner	Test executed date: 20.12.2017

Table: Test case ID: 4

Test case ID: 5	Module name: Payment
Module: Dismiss Case by taking payment	Test designed: Amit
Test priority: (Low/Medium/High): High	Test date: 20.12.2017
Test title: Case payment	Test executed by: Amit
Description: The victim can dismiss case giving payment to the traffic police	Test executed date: 20.12.2017

Table: Test case ID: 5

4.2.2 Integration testing:

This is where two or more related programs are tested. The test will involve two type of approaches, i.e. the bottom - up approach that beings with the simplest task to most complex part. For driver owner information table to the database and to – down approach that tests the system for the complex task to the simplest unit of all. We seek to verify that all the hardware functions together without conflicting.

All the forms linked to the database should be connected well without any issue. Ensure that all the programs work well to avoid interruption and there is no issue whatsoever affecting database update.

Table: 4.10 Integration testing case module

Test case ID: 6	Module name: Login
Module: Traffic police admin and simple user login	Test designed: Amit
Test priority: (Low/Medium/High): High	Test date: 20.12.2017
Test title: Login, user ID, email id, password	Test executed by: Amit
Description: Test the system traffic police registration page	Test executed date: 20.12.2017

Table: Integration testing case module

Test case integration testing:

Test case 6.1	Input type values of login page
Rationale:	To check the traffic police case system online, correct user id, email id, password User ID: 123768; Email ID: <u>email@gmail.com</u> ; Password: 121212;
Test steps:	1. Enable interface logging 2. Run a correct or incorrect authentic 3. Choose traffic police user account 4. Enter password
Expected result:	For all traffic police admin and simple user: 1. Runes successfully end to end without any error 2. At a time maximum user stay login site 3. The traffic police case system stops dispensing information before it reach the maximum amount of the author. 4. The traffic police case system online competes the transaction for the users report.
Pass / Fail:	Pass

Table: Test case integration testing

4.2.3 System testing:

I think of testing, we shall test the entire system for functionality to ensure that the system can process and handle large volumes of data quickly and efficiently. The test will be done with a sample of some users who will use the system under test in its actual capability environment. Possible problems are corrected before really conversing.

Table: 4.11 Test case system testing:

Test case ID: 7	Module name: Hardware
Module: Run the system and Hardware Specification	Test designed: Amit
Test priority: (Low/Medium/High): Medium	Test date: 20.12.2017
Test title: Hardware and system check	Test executed by: Amit
Description: Test the system and hardware	Test executed date: 20.12.2017

Table: Test case system testing

Test case system testing:

Test case 7.1	Input type values of login page
Rationale:	To check the traffic police case system online, correct user id, email id, password User ID: 123768; Email ID: <u>email@gmail.com</u>; Password: 121212;
Test steps:	1. Enable interface logging 2. Run a correct or incorrect authentic 3. Choose traffic police user account 4. Enter password
Expected result:	For all traffic police admin and simple user: 1. Runes successfully end to end without any error 2. At a time maximum user stay login site 3. The traffic police case system stops dispensing information before it reach the maximum amount of the author. 4. The traffic police case system online competes the transaction for the users report.
Pass / Fail:	Pass

Table: Test case system testing

4.2.4 Acceptance testing

This test will be complete the formal testing process where all the users and the administrators will use the system so as they get familiar with it. The users test the system before it is rolled out to be fully used.

- I. **Beta testing**-Carried out at Owner company premise. This involves delivering the system to number the potential clients to use the system and report back to developer key malfunction with and understanding that the product is still being tested.
- II. **Alpha testing**-It takes place at the developer site. It is the final testing before the software is about to be released to the hospital for used.

Table: 4.12 Acceptance testing:

```
Listing 4: Keywords for accepting and rejecting passwords
** Keywords **
Accepts Password ${valid_password}
Create Account arbitrary Username ${valid_userID}
Status Should Be Account Created
Rejects Password ${invalid_password}
Create Account arbitrary Username ${invalid_userID}
Status invalid password or userID
```

Table: Acceptance testing

Test case acceptance testing:

```
Listing 5: Test rewritten to reduce duplication
** Test Cases **
The create command validates passwords
Rejects Password 1234!@$^
Rejects Password abcd!@$^
Rejects Password abcd1234
Rejects Password !2c45
Accepts Password !2c456
Accepts Password !2c4567890123456
Rejects Password !2c45678901234567
```

Table: Test case acceptance testing

4.2.5 Recovery testing:

Recovery testing will force the system to fail in various ways and try to verify that the recovery is efficiently done. It is vital that all the data is recovered after the system failure and corruption of data.

Table: 4.13 Recovery Testing:

Test case ID: 8	Module name: Backup
Module: Backup system module.	Test designed: Amit
Test priority: (Low/Medium/High): Medium	Test date: 20.12.2017
Test Title: Database backup and restore.	Test executed by: Amit
Description: Test the backup system.	Test executed date: 20.12.2017

Table: 4.13 Recovery Testing

Test Case Recovery Testing:

Test Scenario	Test Case	Test Data	Test Result
Backup and restore	Check the button and this is working is not	Enter the button	Its working successful

Table: Test Case Recovery Testing

4.3 Test case

A test case is a set of conditions or variables number which a tester will determine whether a system under test satisfies requirements or works correctly.

The process of developing test cases can also help find problems in the requirements or design of an application.

- Ensure that logical decisions on their true and false sides.
- Practical all logical decisions on their true and false sides.
- Executive all loops at their boundaries and within their operational bounds.
- Executive internal data structure to assure there their validity.

4.4 User Registration Module Test Case

Table: 4.14 Test Case Unit Test

Module 1: Registration and Login

UTC ID	UTC_01
UTC Name	Traffic police register page value check
Code Module	c_panel_new_police_register.php design page
UTC Description	1. Enter Full name with format (X uer), 2. Enter Email with format (example@domain.com) 3. Enter Mobile Number with format (01911111111) 4. Enter Police ID with format (XXX-12) 2. Enter Password (*****)
Input values	Input 1: user name: Amit Samadder Input 2: Email: amiamitswe@gmail.com Input 3: Mobile: 01917784222 Input 4: Police ID: Dhaka-1212 Input 5: password: *****
Expected Output	Input 1: true, Input 2: true, Input 3: true, Input 4: true, Input 5: true,
Actual Output First Iteration	Input 1: true, Input 2: true, Input 3: true, Input 4: true, Input 5: true,
Actual Output Second Iteration	Input 1: true, Input 2: true, Input 3: true, Input 4: true, Input 5: true,
Pass/Fail	First Iteration: 1 Failed in 2, Passed Percent: 70% Second Iteration: 2 Passed in 2, Passed Percent: 100%

Table: UTC_01

UTC ID	UTC_02
UTC Name	Test Input Values of Owner Login page
Code Module	index.php design page, class owner{ }, Login(),
UTC Description	1. The password textbox must hide input value as ***** 2. Enter Invalid user id, and then the system displays an error message. 4. Enter Invalid password, then the system displays an error message 5. Enter valid user id, and valid password, it should lead the user to the respect page
Input values	Input 1: 676767 [Invalid user id] Input 2: 1234/**** [Invalid user password]

	Input 3: 123876 [Valid user id] Input 4: 121212/*****[Valid user password]
Expected Output	Input 1: false, Input 2: false, Input 1: true, Input 2: true,
Actual Output Iteration 1	Input 1: ✕, Input 2: ✕, Input 4: ✓, Input 5: ✓
Pass/Fail	Pass: Complete 4 of 4. Total percent: 100%

Table: UTC_02

UTC ID	UTC_03
UTC Name	Test Input Values of new case page 1
Code Module	new_traffic_case_form_1.php design page in Dashboard
UTC Description	1. Enter Driver name , 2. Enter Driver address 3. Enter driver mobile no 4. Enter owner name 5. Enter owner email 6. Enter vehicle number 7. Select Division 8. Enter occurrence please 9. Enter last date of case hearing
Input values	Input 1: Amit Samadder Input 2: Barisal Input 3: 01919999999 Input 4: Makhan Lal Samadder Input 5: amiamitswe@gmail.com Input 6: Dhaka-KAA Input 7: Dhaka Input 8: Dhanmondi – 32 Input 9: 26-Jun-2018
Expected Output	Input 1: true, Input 2: true, Input 3: true, Input 4: true, Input 5: true, Input 6: true, Input 7: true, Input 8: true, Input 9: true
Actual Output Iteration 1	Input 1: ✓, Input 2: ✓,

	Input 3: ✓, Input 4: ✓, Input 5: ✓, Input 6: ✓, Input 7: ✓, Input 8: ✓, Input 9: ✓
Pass/Fail Pass: Complete 4 of 4. Total passed percent: 100%	Pass: Complete 1 of 1. Total passed percent: 100%

Table: UTC_03

UTC ID	UTC_04
UTC Name	Test Input Values of new case page 2
Code Module	new_traffic_case_form_2.php design page in Dashboard
UTC Description	1. Enter Driver image , 2. Enter Driver offence details 3. Enter submitted document 4. Enter comments 5. Enter fine
Input values	Input 1: Amit3.PNG Input 2: 137: General fine 200 Tk. Input 3: Driving License Input 4: Driving License not valid Input 5: 200
Expected Output	Input 1: true, Input 2: true, Input 3: true, Input 4: true, Input 5: true,
Actual Output Iteration 1	Input 1: ✓, Input 2: ✓, Input 3: ✓, Input 4: ✓, Input 5: ✓,
Pass/Fail Pass: Complete 4 of 4. Total passed percent: 100%	Pass: Complete 1 of 1. Total passed percent: 100%

Table: UTC_04

Module Two: User validation, Account Request and Acceptance

UTC ID	UTC_05
UTC Name	Case searching process
Code Module	case_search_result.php Design Page
UTC Description	1. Mouse out the search textbox, The system should display a message “Enter Search Query” 2. By entering invalid account or Full Name then message should appear “No search results found” 3. By entering valid Account or Email then system should display case list that match with search term
Input values	Input 1: No Case Input 2: All case Input 3: 8ZGD6Y
Expected Output	Input 1: false, Input 2: false, Input 3: true
Actual Output Iteration 1	Input 1: ✕, Input 2: ✕, Input 3: ✓
Pass/Fail	Iteration: 1 Passed in 3, Passed Percent: 33%

Table: User validation, Account Request and Acceptance

Module Three: Process Verification Process Creation

UTC ID	UTC_06
UTC Name	Payment process
Code Module	payment.php Design Page
UTC Description	1. By clicking on approve link button the user should send to active user list.
Input values	Input 1: 500 Input 2: Click Confirm button Input 3: five hundreds taka Input 4: Click Confirm button
Expected Output	Input 1: true Input 3: false
Actual Output	Input 1: ✓ Input 3: ✕
Pass/Fail	First Iteration: 1 passed in 1, Passed Percent: 100%

Table: Process Verification Process Creation

4.5 Unit test report

Total unit test case sample are 7. Some test cases are succeeding in first iteration and some and some succeed in second iteration. The succession percent are shown in following table:

Table: 4.15 Unit test report

Iteration	Number of Unit Test Case	100% Success in first iteration	Less than 100%	Total Succession %
Cycle-1	Total : 7	4	3	$(50+75+66.66)=192.66$ $(192.66+400)/7=84\%$
Cycle-1	Total : 7	7	0	100%

Table: 1.17 Unit test Report

4.6 Maintenance

We provide the best services for all people for provide medical information and trying to remove user sufferings. And we are ready for lifetime maintenance at the time variation.

4.7 Conclusion

All testing was done carefully and each test was up to the required standards of the user's. 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.

Chapter – 5

User Manual

5.1 Bangladesh traffic police case management system:

Figure: 5.8 BTPCSO dashboard

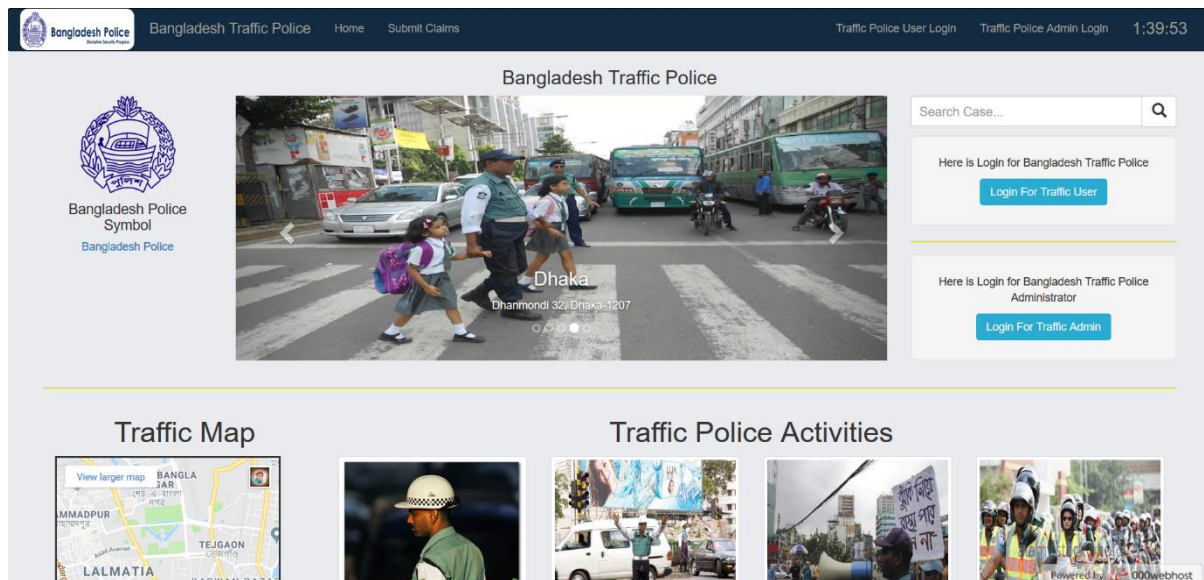


Figure: 5.8 BTPCSO dashboard

5.2 Traffic Police admin login:

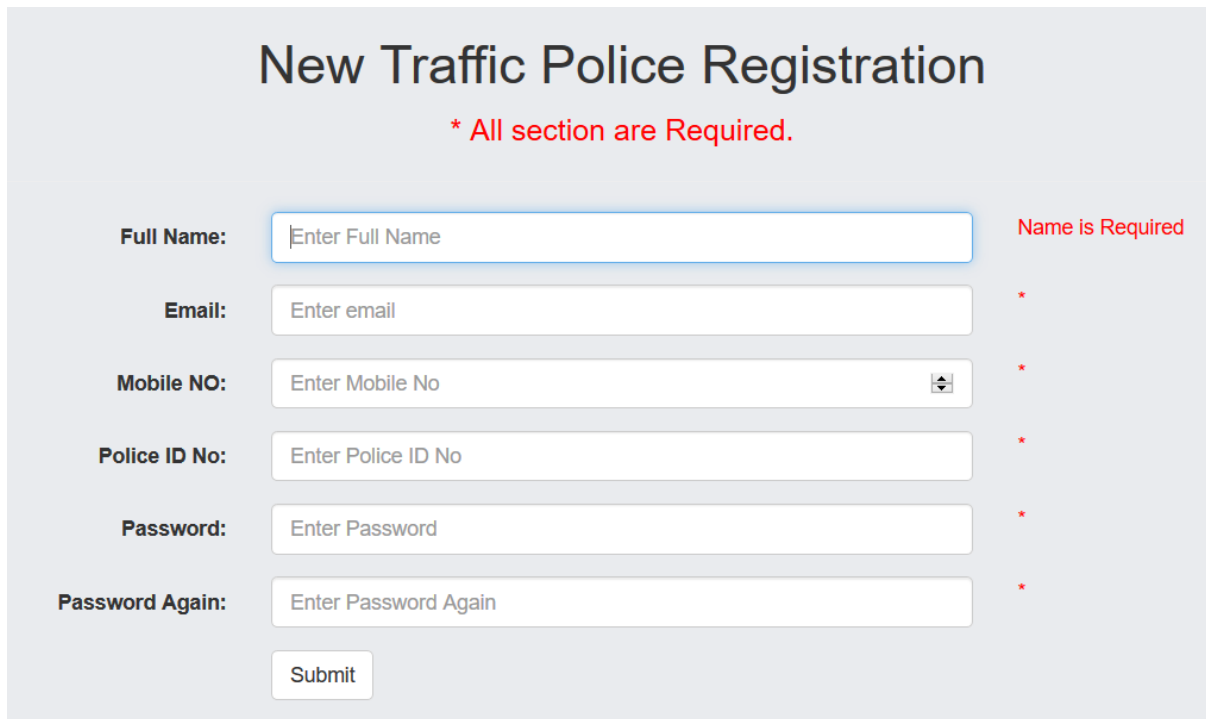
Figure: 5.9 Traffic police admin panel login

The screenshot shows the 'Traffic Police Admin Panel Login' form. The title 'Traffic Police Admin Panel Login' is at the top in blue. Below it, the text 'Username: Username is Required' is displayed in red. There is a text input field for the username with the placeholder text 'Enter Username'. Below that, the text 'Password:' is displayed in black. There is a text input field for the password with the placeholder text 'Enter password'. At the bottom, there is a 'Login' button.

Figure: 5.9 Traffic police admin panel login

5.3 New traffic police registration:

Figure: 5.10 new traffic police registration



The image shows a web form titled "New Traffic Police Registration". Below the title is a red asterisk followed by the text "* All section are Required.". The form contains six input fields, each with a label to its left and a red asterisk to its right. The fields are: "Full Name:" with placeholder text "Enter Full Name", "Email:" with placeholder text "Enter email", "Mobile NO:" with placeholder text "Enter Mobile No" and a small dropdown arrow, "Police ID No:" with placeholder text "Enter Police ID No", "Password:" with placeholder text "Enter Password", and "Password Again:" with placeholder text "Enter Password Again". Below the last field is a "Submit" button. To the right of the "Full Name" field, the text "Name is Required" is displayed in red.

New Traffic Police Registration

* All section are Required.

Full Name: Name is Required

Email: *

Mobile NO: *

Police ID No: *

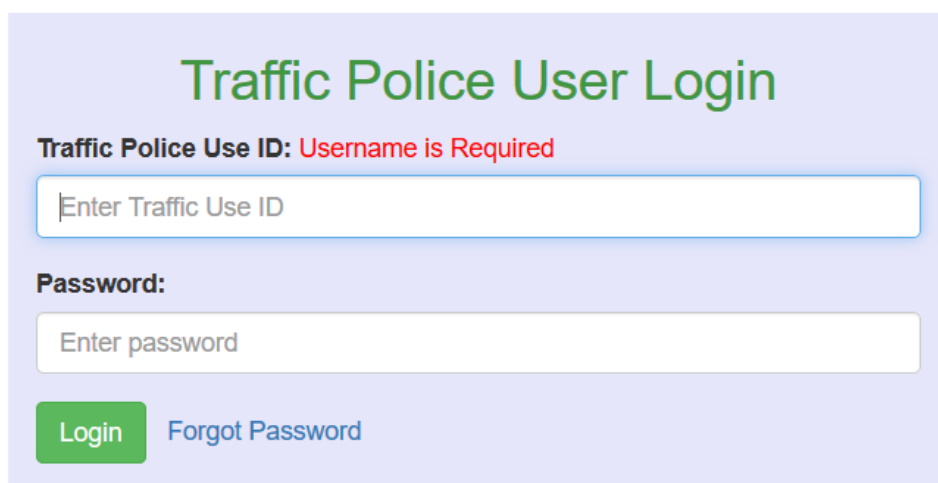
Password: *

Password Again: *

Figure: 5.10 new traffic police registration

5.4 Traffic police user login:

Figure: 5.11 new traffic police login



The image shows a web form titled "Traffic Police User Login". Below the title is the text "Traffic Police Use ID: Username is Required" in red. The form contains two input fields: "Enter Traffic Use ID" and "Enter password". Below the "Enter password" field is a green "Login" button and a blue "Forgot Password" link.

Traffic Police User Login

Traffic Police Use ID: Username is Required

Password:

[Forgot Password](#)

Figure: 5.11 new traffic police login

5.5 Register new case (page 1)

Figure: 5.12 new case register (page 1)

New Traffic Case

Driver Owner Details

All * Field is Required!

Driver Name:

Enter Driver Full Name

*

Driver Address:

Enter Driver Address

*

Driver Mobile No:

Enter Driver Mobile No

*

Owner Name:

Enter Owner Full Name

*

Owner Email:

aaaaaaaa@gmail.com

*

Vehicle No:

Enter Vehicle No

*

Select Division:

*

Occurrence Place:

Occurrence Place

*

Last Date Of Case Hearing:

Last Date Of Case Hearing

*

Continue

Figure: 5.12 new case register (page 1)

5.6 Register new case (page 2)

Figure: 5.13 new case register (page 2)

New Traffic Case

Case No: RJS2UU

Offence Details

Driver Image:

Browse... No file selected.

Offence Details:

☐ 137 : General fine 200 Tk.

☐ 139 : Using hydrolic horn 100 Tk.

☐ 140 : Disobey police order, refusal to cooperate 500 Tk.

☐ 140 : Disobeying red signal 510 Tk (Same as special fine).

☐ 142 : Careless driving 300 Tk.

☐ 146 : Accident related fine 520 Tk.

☐ 149 : Driving without safety 350 Tk.

☐ 150 : Black smoke emission 150 Tk.

☐ 151 : Modification of car and sale without permission 1250 Tk.

☐ 152 : Driving without registration, fitness, or route permit 700 Tk.

☐ 154 : Overloading the car 470 Tk.

☐ 155 : Driving without insurance 480 Tk.

☐ 156 : Driving without permission 490 Tk.

☐ 157 : Blocking road or public place 250 Tk.

☐ 158 Unauthorized touchuse of car 280 Tk.

☐ 000 : Lane violation 1,000 Tk.

Submitted Documents:

☐ Driving Licence

☐ Car Licence

☐ Car Insurance

☐ Driving Insurance

☐ On Test Paper

☐ Route Permission

☐ Tex Token

☐ Car Fitness Certificate

☐ C.S

☐ Nothing

Comments

Comments Please

Here are the comments for the driver how create offence.

Total Fine In Taka:

0

Submit

Figure: 5.13 new case register (page 2)

5.7 My cases

Figure: 5.14 my case

My Assign Cases

No	Driver Name	Mobile No	Case No	Car No	Last Date	C.Status
1	Amit	1345646	WEZ2K0	BA1234	28-Jun-2018	Complete
2	Abir Samadder	1917784210	RJS2UU	BA1234	28-Jun-2018	Pending

Figure: 5.14 my case

5.8 Case Details

Figure: 5.15 Case Details

Case ID: RJS2UU



Payment

Property	Details
Name:	Abir Samadder
Mobile No:	+8801917784210
Address:	Barisal
Owner Name:	Amit Samadder
Owner Email	amiamitswe@gmail.com
Occurrence Place	Dhanmondi - 32, Dhaka
Occurrence Date & Time	26-Apr-2018 01:43:41am
Vehicle No:	BA1234
Last Date of Hearing:	28-Jun-2018
Fine:	450 Taka
Comment:	Documents are not valid
Offences:	Click Here
Submitted Documents:	Click Here

Figure: 5.15 Case Details

5.9 Proves and offences

Figure: 5.16 Proves and offences details

Case ID: RJS2UU

[Go Back](#)

Offences Here

- 137 : General fine 200 Tk.
- 139 : Using hydrolic horn 100 Tk.
- 150 : Black smoke emission 150 Tk.

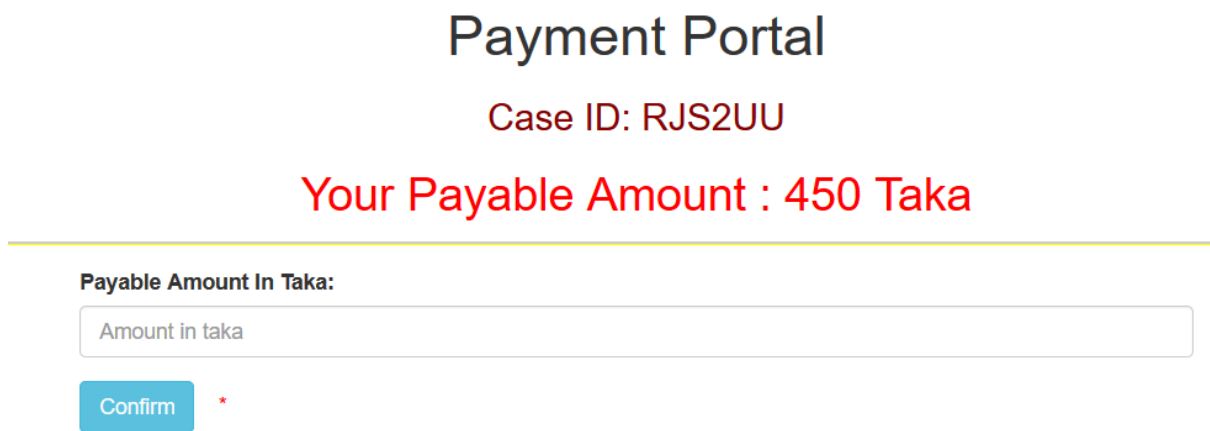
Given Documents

- Driving Licence
- Car Licence
- Car Insurance

Figure: 5.16 Proves and offences details

5.10 Payments

Figure: 5.17 Payments

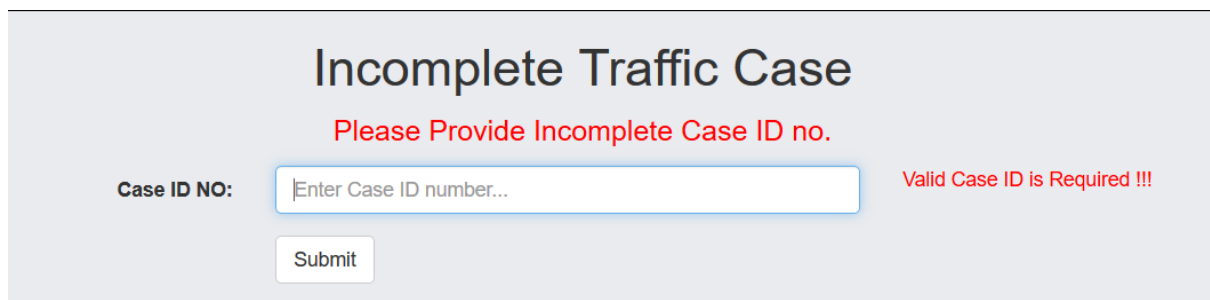


The screenshot displays a web interface titled "Payment Portal". Below the title, the "Case ID: RJS2UU" is shown in red. A prominent red message states "Your Payable Amount : 450 Taka". A horizontal yellow line separates this header from the payment details section. This section is titled "Payable Amount In Taka:" and contains a text input field with the placeholder "Amount in taka". Below the input field is a blue "Confirm" button, followed by a red asterisk symbol.

Figure: 5.17 Payments

5.11 Incomplete Case Search

Figure: 5.18 Incomplete Case Search



The screenshot shows a search interface titled "Incomplete Traffic Case". Below the title, a red message reads "Please Provide Incomplete Case ID no.". On the left, the label "Case ID NO:" is positioned next to a text input field containing the placeholder "Enter Case ID number...". To the right of the input field, a red error message states "Valid Case ID is Required !!!". Below the input field is a white "Submit" button.

Figure: 5.18 Incomplete Case Search

5.12 Owner received Email

Figure: 5.19 Owner received Email

traffic police case



bd.trafficpolice@gmail.com <bd.trafficpolice@gmail.com>

1:52 AM

To: amiamitswe@gmail.com



Hello Mr/Miss. Amit Samadder

Your Driver Mr/Miss. Abir Samadder

Driver Mobile No is : +8801917784210

Vehicle NO : BA1234

Create some unwanted activities in : Dhanmondi - 32, Dhaka

Here Case ID is : RJS2UU

Last date for case dismiss is : 28-Jun-2018

You are requested to dismiss the case within the date

For more information please contact 0199-99-99999

or contact with nearest traffic Surgeon

Thank You

Figure: 5.19 Owner received Email

Chapter 6

Conclusion

6.1. Critical Evolution and Team Attainment

Finally we successfully developed our system “Bangladesh Traffic Police Case Management System” we have face a lot of problem for gathering information and team work. We have try our level best and finally make a system.

6.2. Limitations

Like all the things is not 100% perfect in the world like that my application also has some limitation. But I had 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 claim against the traffic police if they misbehave with victim.
- V. Image should not be greeter then 400kb or Camera should not be greeter the 1.33 Megapixel.
- VI. Payment system is manual not automatic.

6.3. Obstacles & Achievements

All testing was done carefully and each test was up to the required standards of the user's. 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.

6.4. Future Scope

Future scopes are below:

- I. We will add 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 victim.
- IV. We will make an android application.
- V. We will update our application periodically.

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