ParibahanBD

Submitted by

Md. Fazle Rabbi

ID: 171-35-2027

Department of Software Engineering

Daffodil International University

Supervised by

Md. Fahad Bin Zamal

Assistant Professor

Department of Software Engineering

Daffodil International University

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

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APPROVAL

This project titled on "ParibahanBD", submitted by Md. Fazle Rabbi (ID: 171-35-2027) to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfilment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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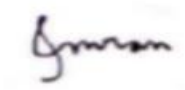

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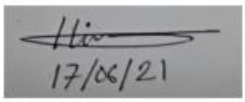

Farhan Anan Himu
Lecturer
Department of Software Engineering
Daffodil International University

Internal Examiner 2

Professor Dr. Mohammad Abul Kashem
Department of Computer Science and Engineering
Dhaka University of Engineering and Technology

External Examiner

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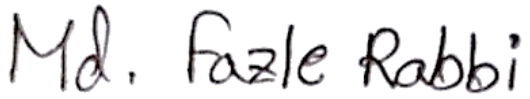
DECLARATION

I hereby declare that project titled "ParibahanBD" has been completed by me under the supervision of Mr. Md. Fahad Bin Zamal, Assistant Professor, Department of Software Engineering, Daffodil International University for the purpose of achieving degree of Bachelor of Science from Daffodil International University. This is also declared by me that neither this project nor any part of this project has been used or submitted elsewhere for any kind of degree or awards.



……

Md. Fazle Rabbi
ID: 171-35-2027
Department of Software Engineering
Daffodil International University

……

Mr. Md. Fahad Bin Zamal **Supervisor**

Assistant Professor
Department of Software Engineering
Daffodil International University

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First and foremost, all the praise and thanks go to the Almighty Allah for all the blessings for all my project work, giving me patience and enabling me to complete this project on time.

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I am grateful to my parents as well as all the members of the family. My whole study journey would not have been so easy without their endless support and co-operation.

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Finally, I would like to express my love to my batch mates, to the DIU members for their kind co-operation and comfort that helped me finish all the work.

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ABSTRACT

The method in this paper speeds up the checking of driving license applicants, relative to today, in a more effective and straightforward way. Procedure for manual checking. There is also a manual testing method Such constraints such as time-intensive, expensive and heavy Controlled by the examiner's expertise in carrying out the test. Obtaining a driving license is a daunting process. The government will keep an eye on things. Both residents' voices are heard in this effort. Images can be scanned and saved. Whenever a person crosses the border, the police search his picture and can review the traffic laws. Just using your finger, you can obtain a license. Again, with the assistance of a GPS-enabled device, the precise positions of the traffic police to the BRTA control unit. The control room is where you'll find him. It is very easy and comfortable to use a driving monitoring device.

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CHAPTER 1

INTRODUCTION

1.1 Project Overview

It is seen from the survey that a mechanism for verifying the driving license has been introduced. The device includes the receipt of the SMS. The method involves the collection, sorting, wireless delivery, fingerprint matching, and authentication process of terminal fingerprints. Things have been raised about false identification. A plan for a low price and a high-performance wireless driving license authentication feature that includes a modern wireless conducting license solution that can allow traffic police and BRTA to solve such a challenge and accomplish the quick and high-time real-time system.

1.2 Project Purpose

This solution will provide BRTA Transport Service access to citizens through a web-based application. This website empowers citizens with instant access to various information, verify, services and utilities related to the Transport Sector. Aimed to bring convenience to citizens and transparency in the system so that will reduce the hassle of daily life problems of a driving citizen.

1.2.1 Background

Nowadays carrying a driving license and registration paper of vehicles are too irritating. Sometimes we forget to carry them with us.

And for this reason, we face many problems and pay a lot of penalty.

Whenever we live in 2020 but people of Bangladesh are not even sincere about the traffic rules and regulation. Sometimes a bunch of people park their cars or bike on the road for no reason for a long time, and the traditional traffic jam problem of our Dhaka city will arise. Some people are showing their physical power and breaking the rules of traffic.

1.2.2 Benefits & Beneficiaries

We have beneficial aspects of this solution. They are pointed out below:

- Time consuming
- Reduce from extra hassle
- Digital Solution
- QR Code Generate for Easy Driving License.

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- Easy to manage
- Ensure better service for BRTA,
- Easy Complain Report & Support for Citizen,
- User-friendly service.

1.2.3 Goals

- Make this application in Live Server
- Increase people awareness about Traffic rules
- Make system Digital

1.3 Stakeholders

There are two types of Stakeholders in our Solutions. They are:

- **Citizen**

In this System the major and sensitive role is played by the Citizen. Citizens can Generate Digital Driving License, Complain Submission, QR Code Generate, PDF Download.

- **Authority (Admin)**

In this System the secondary important role plays by Authority, they can assessment Driver information, check the Complaint Report and take action.

1.4 Project Schedule

Project Schedule is important for every project to complete on time.

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1.4.1 Gantt Chart

It is a graphic view of overtime-planned tasks. It's a very efficient way to show on a particular day what work is planned to be completed. It also helps to demonstrate the start and finish times of my project.

Activities		W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15
Planning	Ideas															
	Problem definition															
	Proposal planning															
Requirements	Requirement Specification															
	Requirement analysis															
QA -1	Quality assurance															
System Design	Design specification															
	Interface design															
	Database design															
Development	Development system modules															
	Integrate system modules															
QA -2	Test Cases															
Testing	Unit testing															
	Black box testing															
Resolve Issues	Resolve issues found															
Release	Software release															

Figure 1.4.1: Gantt chart

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1.4.2 Project Timeline

The Project timeline record is given below:

Task	Date
Topic Selection Seminar	**20/10/2020**
Brainstorming Project Topic & Name Selection	21/10/2020 – 28/10/2020
Submit Project Proposal	28/10/2020
Requirement Specification	30/10/2020 – 15/01/2021
Mid Term Defense	25/02/2021
System Analysis & Design	30/02/2021 – 05/03/2021
Development System	06/03/2021-11/05/2021
System Testing	20/05/2021 – 25/05/2021
Complete Project	**26-05-2021**

Table 1.4.2: Project Timeline

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CHAPTER 2

SOFTWARE REQUIREMENT SPECIFICATION

2.1 Functional requirement: Citizen

Requirement ID	FR.C.2
Requirement Name	Digital Driving License
Description	Citizens can make a digital driving license given some requirement.

Requirement ID	FR.C.3
Requirement Name	Complain Submission
Description	Citizen can submit any type of complain with description

Requirement ID	FR.C.4
Requirement Name	QR Code Generate
Description	Citizen can create Driving license info into a QR Code for Security Purpose

Requirement ID	FR.C.5
Requirement Name	PDF Document
Description	Citizen can download own information in a PDF format

2.2Functional requirement: Authority (Admin)

Requirement ID	FR.A.1
Requirement Name	Log in
Description	Authority can log in using email and password

Requirement ID	FR.A.2
Requirement Name	See All Complains

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Description	Authority can see all Citizens Complain Submission

Requirement ID	FR.A.3
Requirement Name	Driver Information Assessment
Description	Authority can assessment Driver information

2.3 Performance Requirements

Reliability, safety, security, and availability are all part of the dependability criterion, but reliability is the most important. These requirements are also required.

2.3.1 Capacity Requirements

Both forms of user data must be handled by the device.

CR-1	System will handle many data
Description	The system must be able to accommodate a wide range of data types.
Stakeholder	Admin

2.4 Dependability Requirements

Four dimensions are used to assess dependability. Availability, Reliability, Safety, and Security are only a few examples. As a result, our device must meet these four dimensions.

2.4.1 Reliability Requirements

The likelihood that the machine will run without loss is referred to as reliability.

RR-1	System must be available 24/7
Description	The system must be available at all times, updated, and free of malware.
Stakeholder	N/A

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2.4.2 Fault-Tolerance Requirements

It is critical to ensure 0% crush and correct performance for consumers in order to ensure fault-tolerance.

FTR-1	System operates all the user access without system error
Description	Both users can access our system at a time, system must be handled request without any errors
Stakeholder	N/A

2.4.3 Safety-Critical Requirements

In my project, there are no safety-critical requirements.

2.5 Maintainability and Supportability Requirements

It is important to provide after-sales assistance or service to end customers.

2.5.1 Maintenance Requirements

MR-1	System helps to manage complain and driving license.
Description	It is very important.
Stakeholder	Admin

2.5.2 Supportability Requirements

There is some dimension of supportability requirements. They are:

- Maintainability
- Configurability
- Compatibility
- Serviceability

2.5.3 Adaptability Requirements

My project has no conditions for adaptability.

2.6 Security Requirements

The importance of security specifications for device solutions cannot be overstated. It should be based on practical needs. Software Protection is concerned with the application system's security. There are some specifications in terms of protection. They are:

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- Sign in a Citizen and Admin
- Get access according to logged in user
- Sign out as a Citizen and Admin

2.6.1 Access Requirements

In my project, there is no prerequisite for entry.

2.6.2 Integrity Requirements

In my project, there is no provision for authenticity.

2.6.3 Privacy Requirements

In any scheme, it is important to have privacy standards. Any consumer can join the system by checking their details and using their accessibility settings to ensure privacy.

2.7 Usability and Human-Interaction Requirements

The primary goal of any device solution is to make it user-friendly and simple to use.

2.7.1. Ease of Use Requirements

Our Solution is easy to use and understandable

EUR-1	System must be usable & easy for the user
Description	This solution is easy for user to manage system
Stakeholder	Citizen and Admin

2.7.2 Understandability Requirements

In my project, there are no well-defined criteria.

2.7.3 Accessibility Requirements

In my project, there are no clear usability criteria.

2.7.4 User Documentation Requirements

In my project, there are no conditions for user documentation.

2.7.5 Training Requirements

In my project, there are no training specifications.

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CHAPTER 3

SYSTEM ANALYSIS & DESIGN

3.1 Use case

User profile: 1

User Class: Citizen	Characteristics	Requirement Implied
User type	Primary	Must give input
Age range	18-65	Minimal Design
Number of users	Unlimited	Bandwidth should be high
Education	Educated	Simple interface
Language Skill	English	Simple English
Computer/ Mobile Knowledge	Yes	Type option or Click option
Training	Not required	Not required
Goal	Digital Driving License, Complain Submission, QR Code, PDF Download	Must see Licenses Information, Complains Details, Download PDF Format, QR Code Create

User profile: 2

User Class: Authority	Characteristics	Requirement Implied
User type	Primary	Must see output
Age range	35-40	Minimal Design
Number of users	2	Bandwidth should be normal
Education	Higher education	Simple interface
Language Skill	English	Simple English
Computer/ Mobile Knowledge	Yes	Only type or click option
Training	Required	2 days training will be provided
Goal	Assessment Complain, Assessment License & Information	Must See Dashboard, Complaint Details, Citizen Driving Licenses Information

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3.2 Use Case Diagram

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

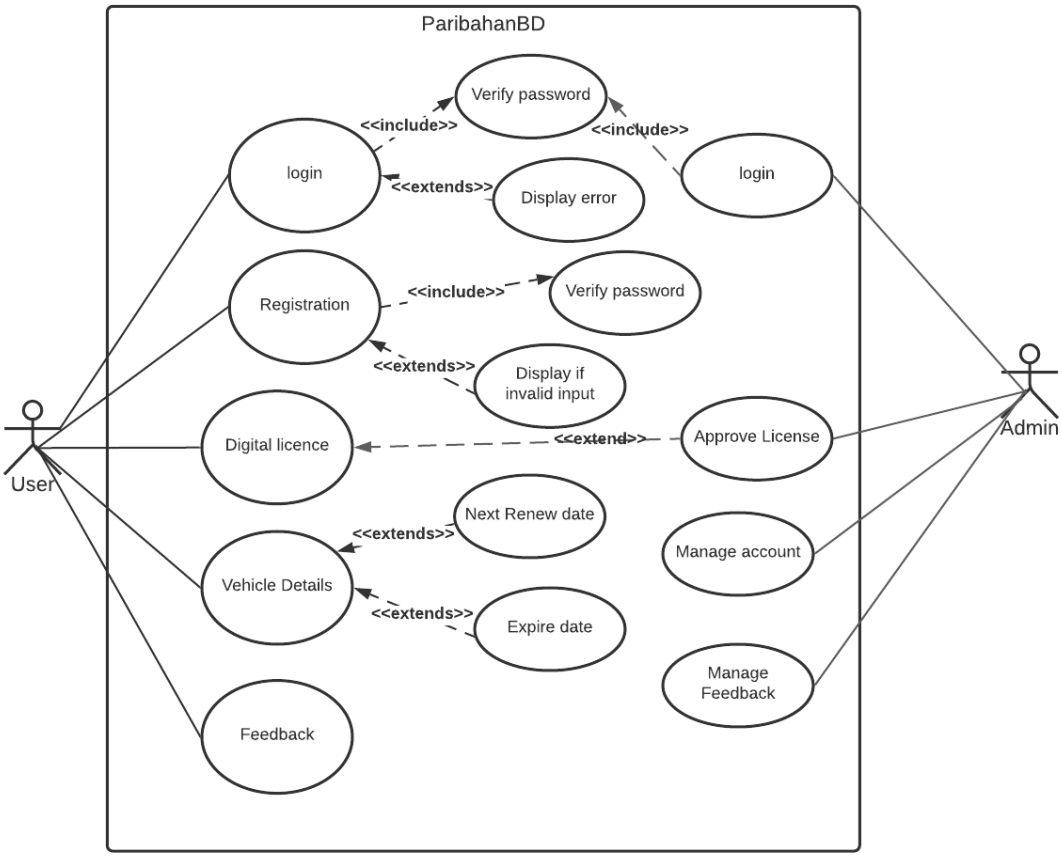

Figure 3.1: Use case for ParibahanBD

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3.3.1 Use Case Description (Citizen)

Name of Use Case:	Citizen
Description:	Citizen Input Information for Digital Driving License, Complain Submission, QR Code Generate, PDF Download
Actors:	Citizen
Preconditions:	1. Citizen must be Registered 2. Must be Verified
Postconditions:	
Flow:	1. Citizen login System 2. Check License Information 3. Create Digital License 4. Complain Submission 5. Download PDF
Alternative Flows:	
Exceptions:	Easy License Show, Smart City Easy Traffic Solution
Requirements:	The following requirements must be met before execution of the use case 1. Citizen Must Be Registered 2. Must Be Input Details Driving License Information

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3.3.2 Use Case Description (Admin)

Name of Use Case:	Admin
Description:	Authority Assessment Driver Information and Assessment all Complains
Actors:	Authority (Admin)
Preconditions:	1. Authority Must Be Registered
Postconditions:	
Flow:	1. Authority Login their Portal 2. Assessment Driver Information 3. Assessment All Citizen Complains
Alternative Flows:	
Exceptions:	Easy Assessment in Smart Way, Time Consumption
Requirements:	The following requirements must be met before execution of the use case 1. Must Be Registered

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3.4 Activity Diagram

3.4.1 User Login Activity

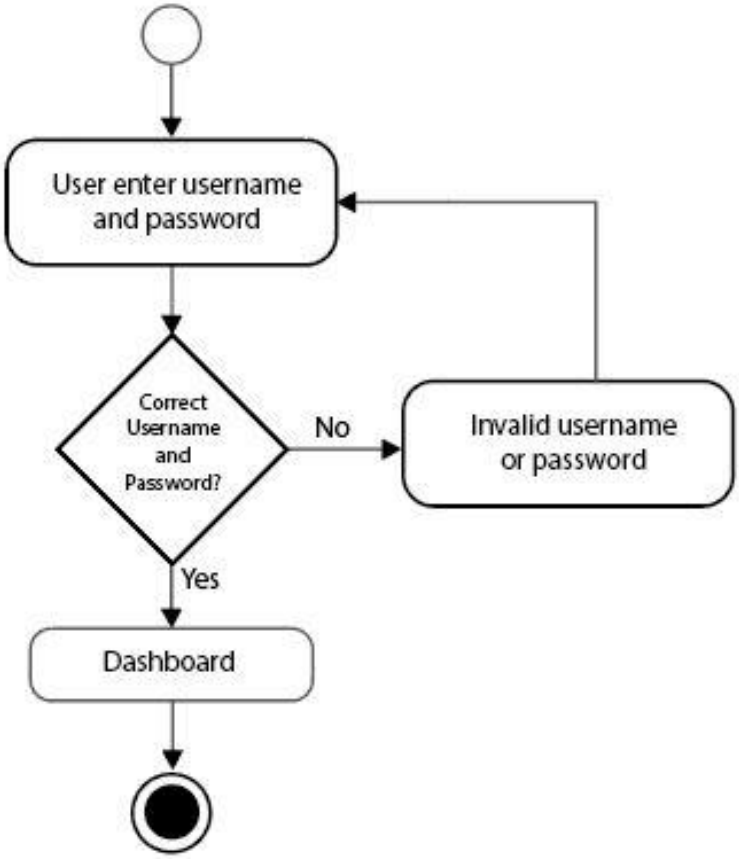

Figure 3.4.1: User Login Activity Diagram

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3.4.2 User Register Activity

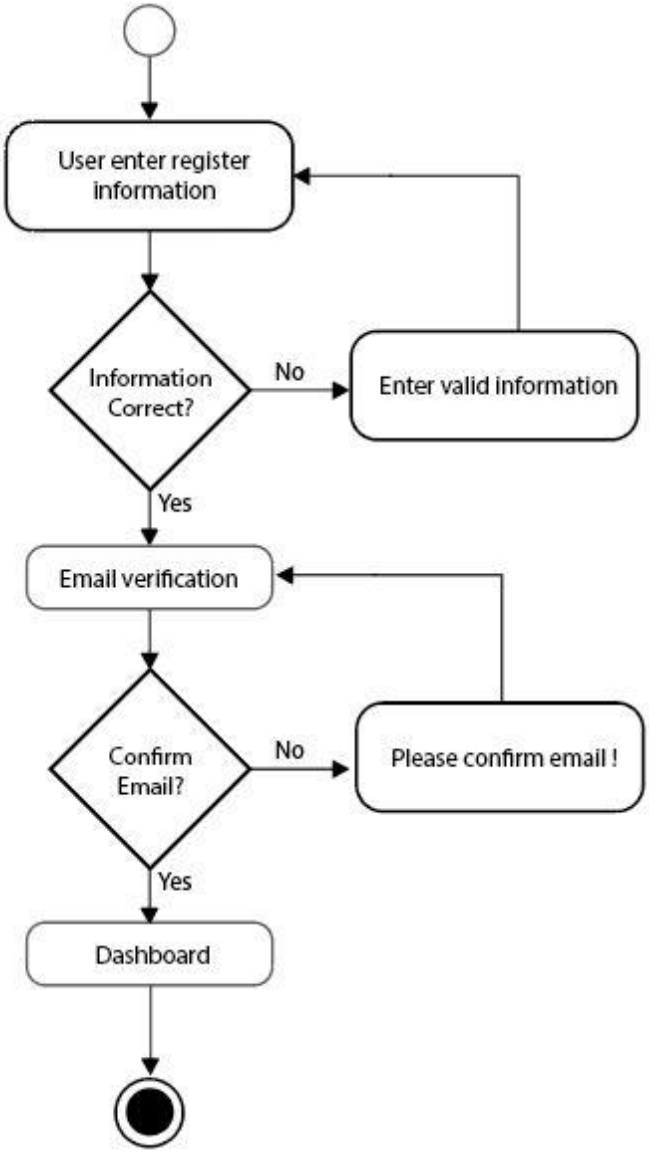

Figure 3.4.2**:** User register Activity Diagram

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3.4.3 User RC Application Activity

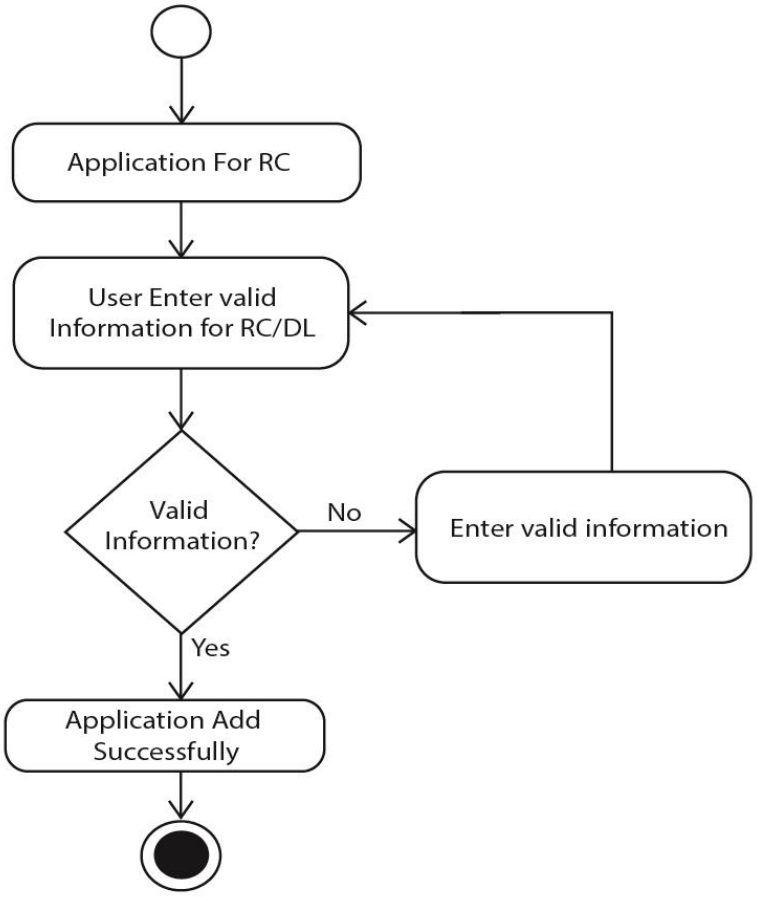

Figure 3.4.3: User RC Application Activity Diagram

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3.4.4 User Activity

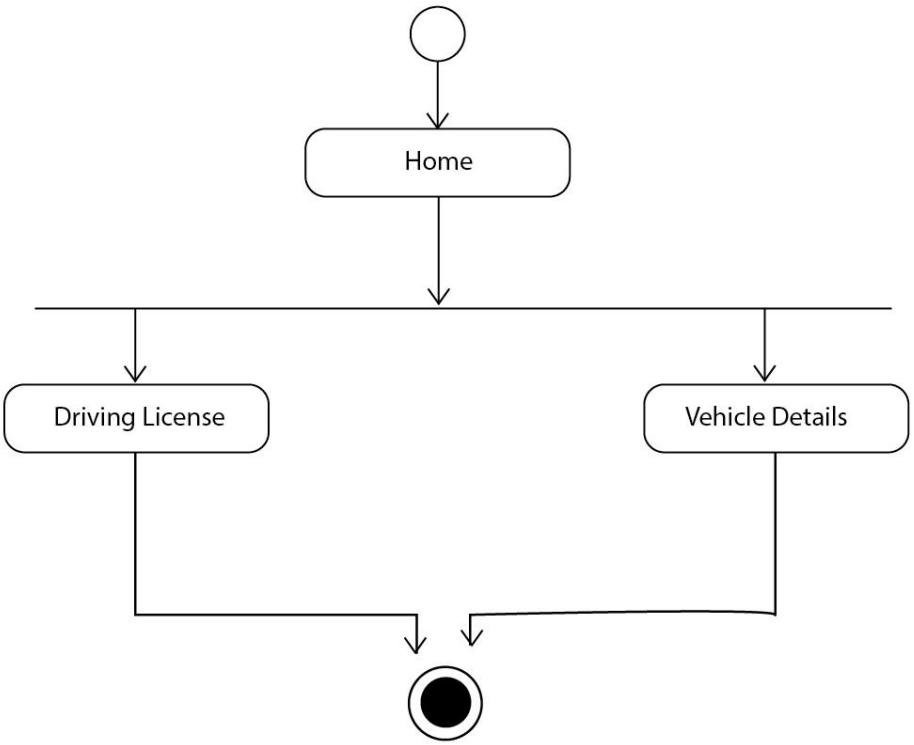

Figure 3.4.4: User Activity Diagram

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3.4.5 User Payment Activity

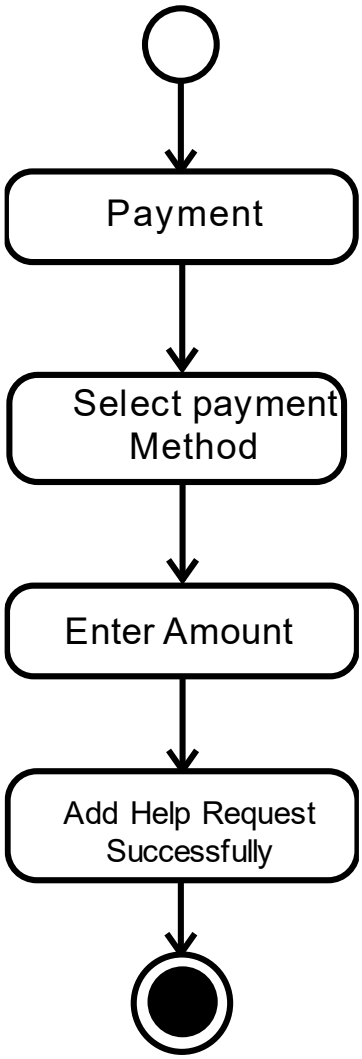

Figure 3.4.5: User Payment Activity Diagram

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3.4.6 User feedback Activity

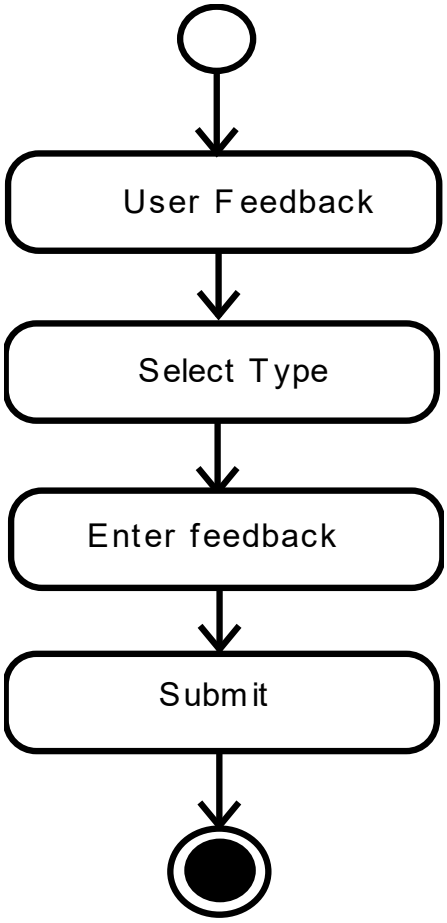

Figure 3.4.6: User feedback Activity Diagram

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3.4.7 Admin Login Activity

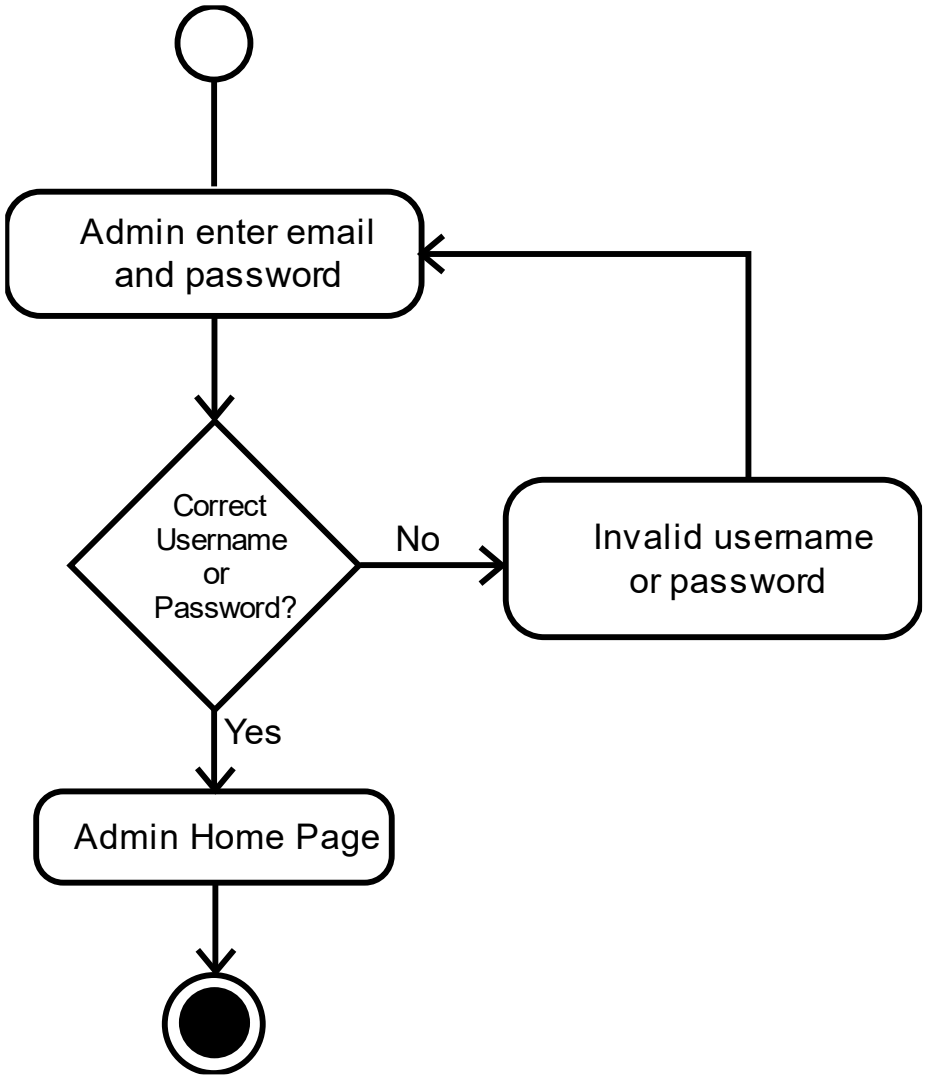

Figure 3.4.7: Admin Login Activity Diagram

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3.4.8 Admin Manage License

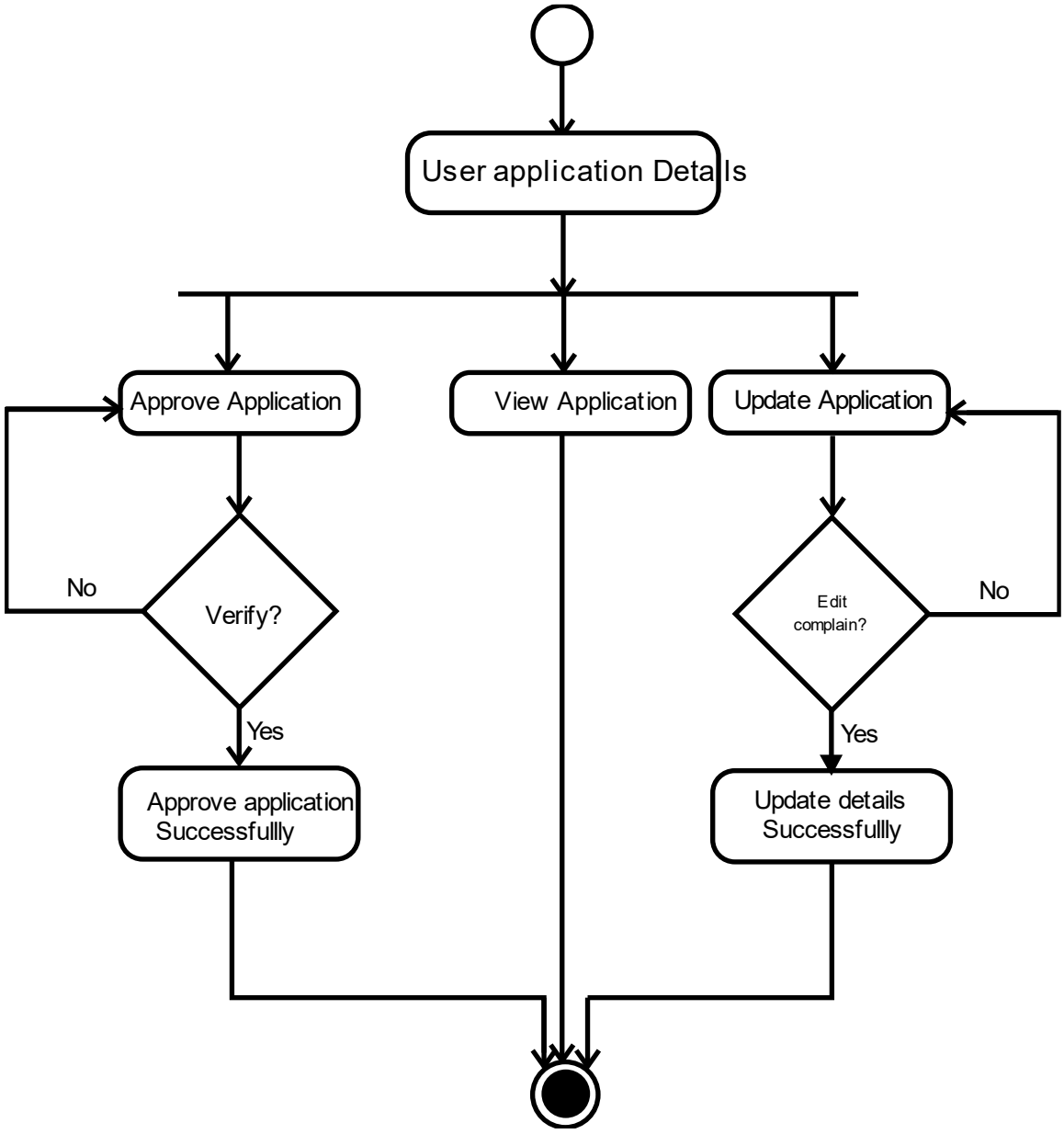

Figure 3.4.8: Admin manage License Activity Diagram

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3.4.9 Admin Dashboard Activity

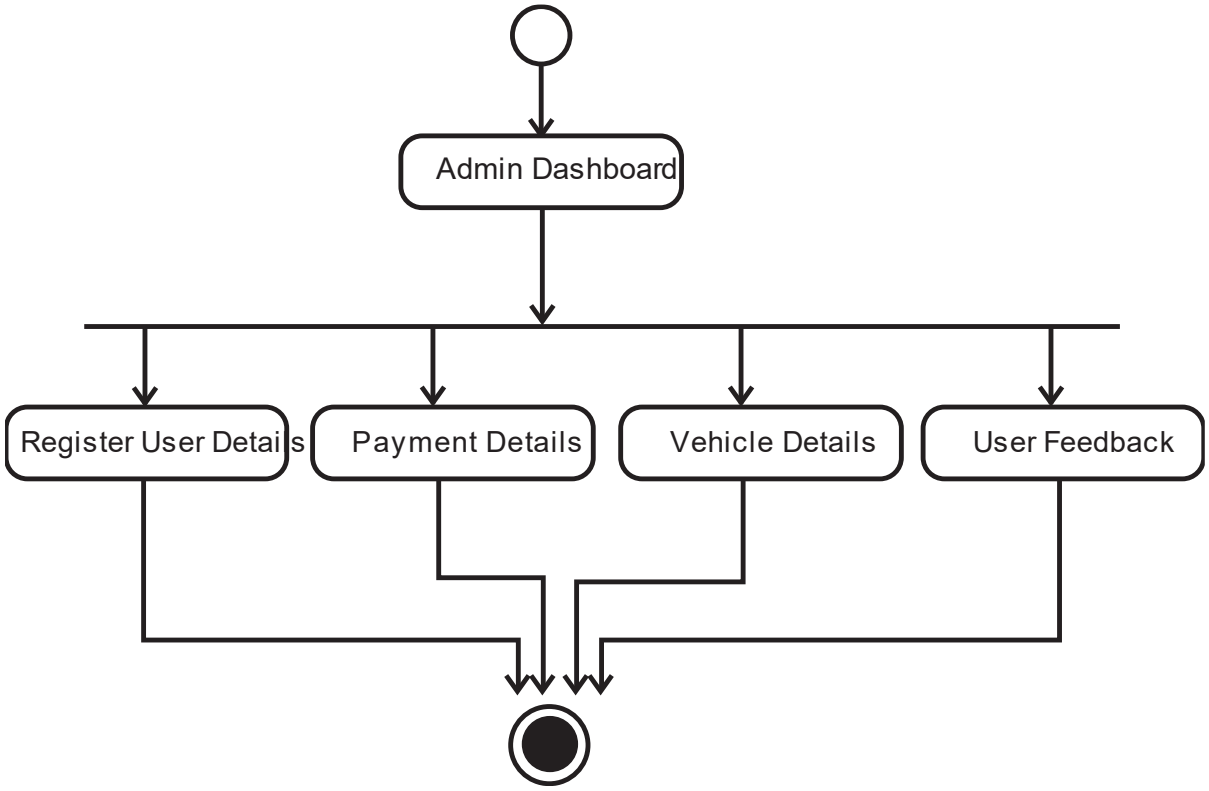

Figure 3.4.9: Admin Dashboard Activity Diagram

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3.5 System Sequence Diagram

3.5.1 Citizen Sequence Diagram

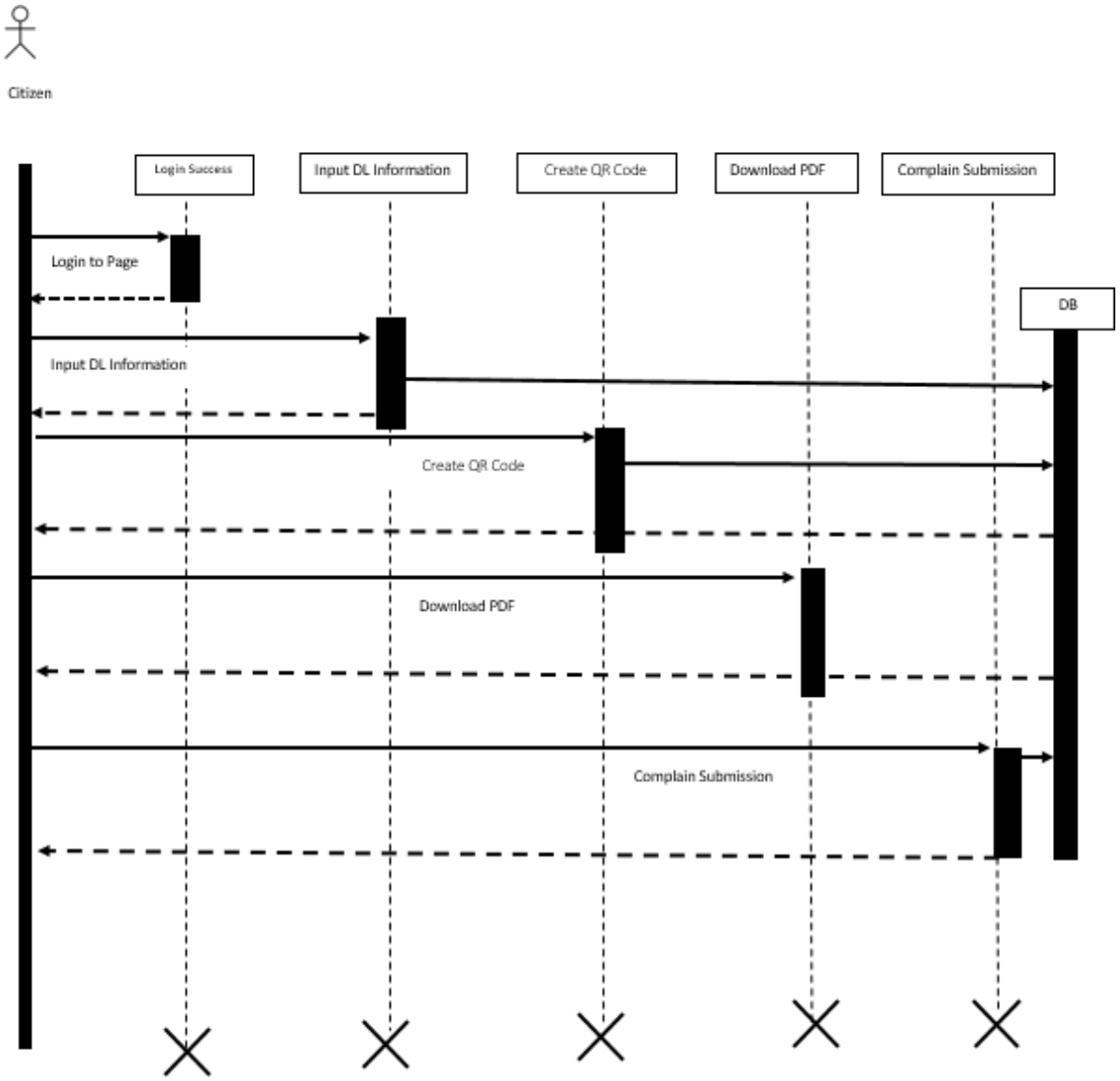

Figure 3.5.1: Citizen Sequence Diagram

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3.4.2 Admin Sequence Diagram

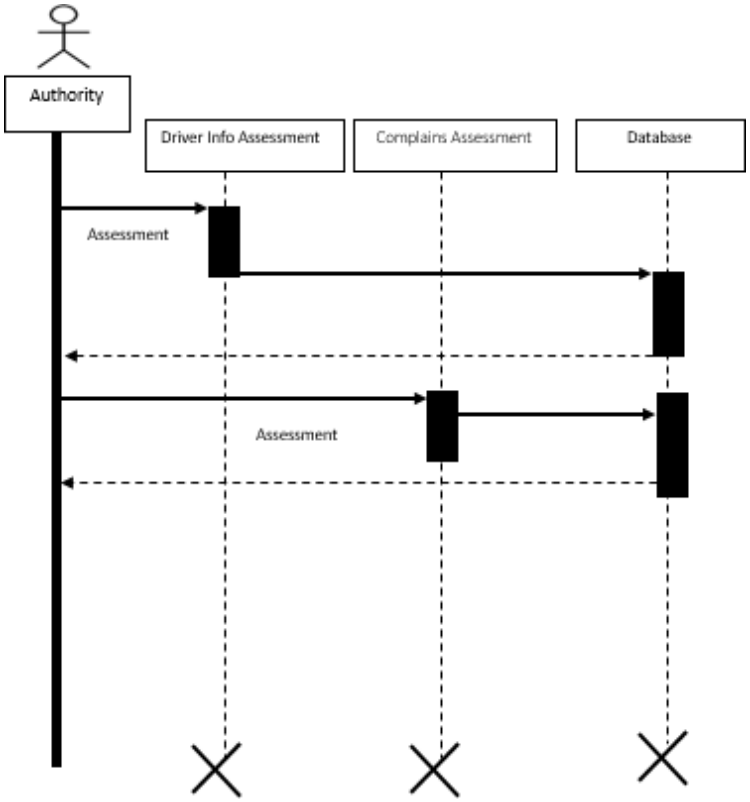

Figure 3.4.2: Admin Sequence Diagram

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3.5 System Entity Relation Diagram

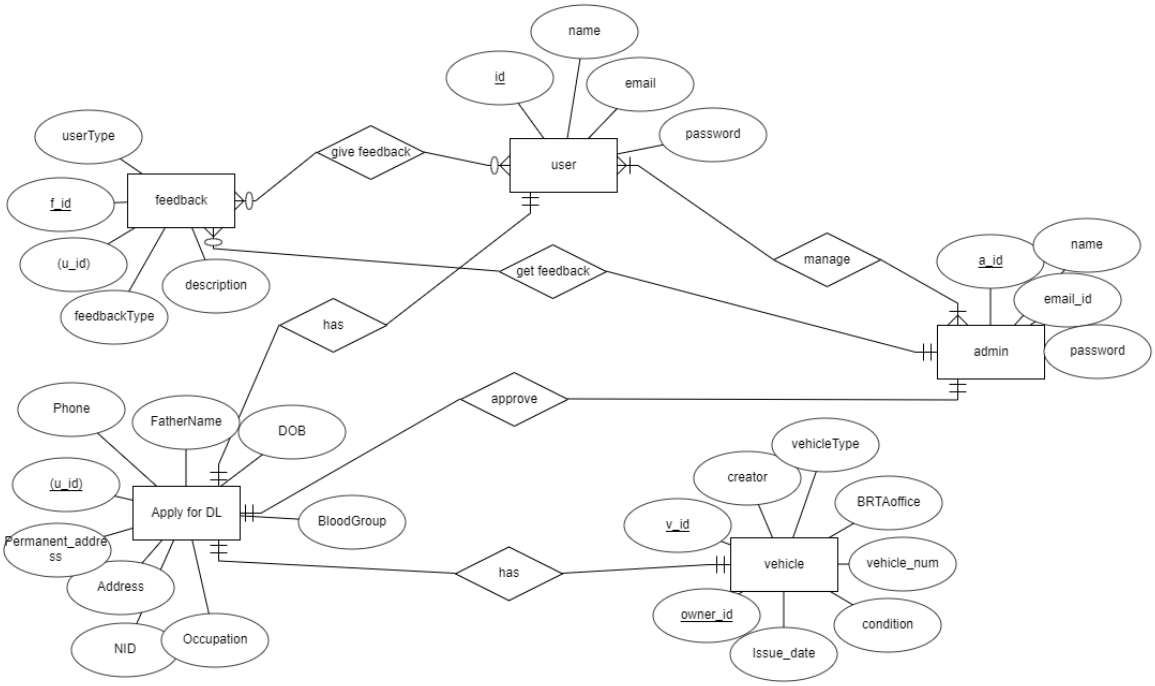

Figure 3.5: Entity Relation Diagram

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3.7 Design and Implementation Constraints

3.7.1 Framework or Software Language:

‘ParibahanBD is written by PHP using Laravel framework with a bootstrap template for user interface and data stored in MySQL database.

3.8 Development Tools and Technology:

- IDE: Atom
- Database: MySQL
- UI: HTML, CSS, Bootstrap, JavaScript
- Framework: Laravel 6
- Language: PHP
- Web-Server: XAMPP Server

3.9 Project Organization

3.9.1 Software Process Model

The first Process Model to be implemented was the Waterfall Model. Every process must be completed in a Waterfall model before the next phase can begin and there is no overlap between the phases. The model of the waterfall is the earliest SDLC technique used for software development. The whole process of software development is broken into different stages in "The Waterfall" strategy. The product of one stage serves sequentially as the reference for the next step. This suggests that every step in the phase of creation continues only if the previous stage is complete. The waterfall model is a sequential modeling process in which development through the phases of Conception, Initiation, Analysis, Design, Construction, Testing, Production/Implementation and Maintenance is seen as continuously flowing downward (like a waterfall).

As the Waterfall Model depicts the process of software creation in a linear sequential flow, it is also often referred to as a model of the linear sequential life cycle.

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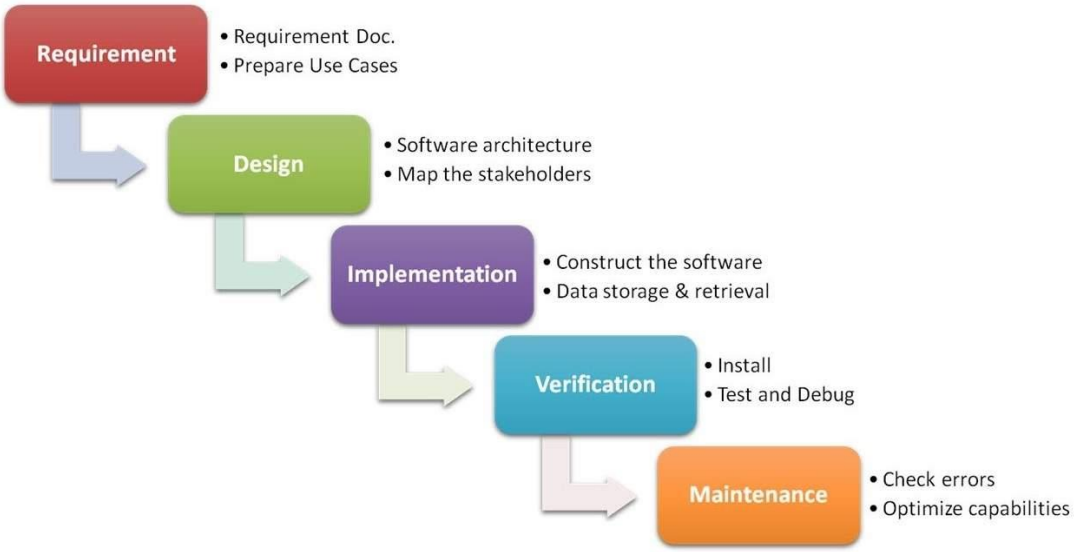

Figure3.9.1: Waterfall Model

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CHAPTER 4

SYSTEM TESTING

4.1 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.

4.1.1 Features to be tested

There are some features below:

- Login
- Application for RC

4.2 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.

4.2.1 Test 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.

4.2.2 Test Category

- Integration Testing
- Module Testing

4.2.3 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.

4.3 Testing Environment

There are some key areas to set up for testing

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

4.4 Test Cases

Testing Case No-1 (Integration Testing)

Test Case ID.1	Module name: Citizen and Admin
Test Priority: High	Test Date: 22.05.2021
Test Title: Citizen & Admin Login Verification with valid email & password	Test executed by: Md. Fazle Rabbi
Description: Test Admin & Student Login Page	Test executed date: 22.05.2021
Pre-condition:	Users and admin 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: admin Student: Email: rabbi@gmail.com Password: 12345678
Expected Results:	User should able to login
Actual Result:	User logged in successfully
Status (Pass/Fail):	Pass
Post-condition:	Successfully Logged in.

Table 4.4.1: Testing Case (Citizen and Admin login)

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Testing Case No-2 (Module Testing)

Test Case ID.2	Module name: Citizen
Test Priority: High	Test Date: 25-05-2021
Test Title: Add teacher with validation	Test executed by: Md. Fazle Rabbi
Description: Admin can add teacher	Test executed date: 25-05-2021
Pre-condition:	User must login and insert valid data
Test steps:	1. After login go to Application for RC 2. Insert data all the field 3. Click Submit button
Test Data:	Executed all correct data
Expected Results:	RC Successfully
Actual Result:	RC Successfully
Status (Pass/Fail):	Pass

Table 4.4.2: Testing Case (Application for RC)

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CHAPTER 5

USER MANUAL

5.1 User Login Page

The User will login with their email and password on this tab.

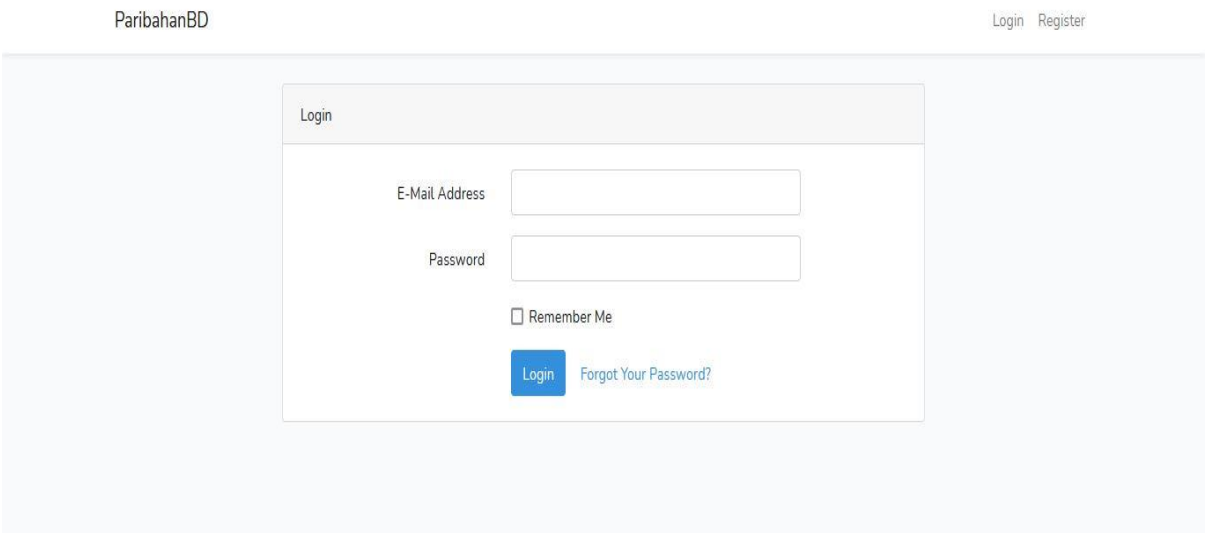

Figure 5.1 UI (User Login Page)

5.2 User Register Page

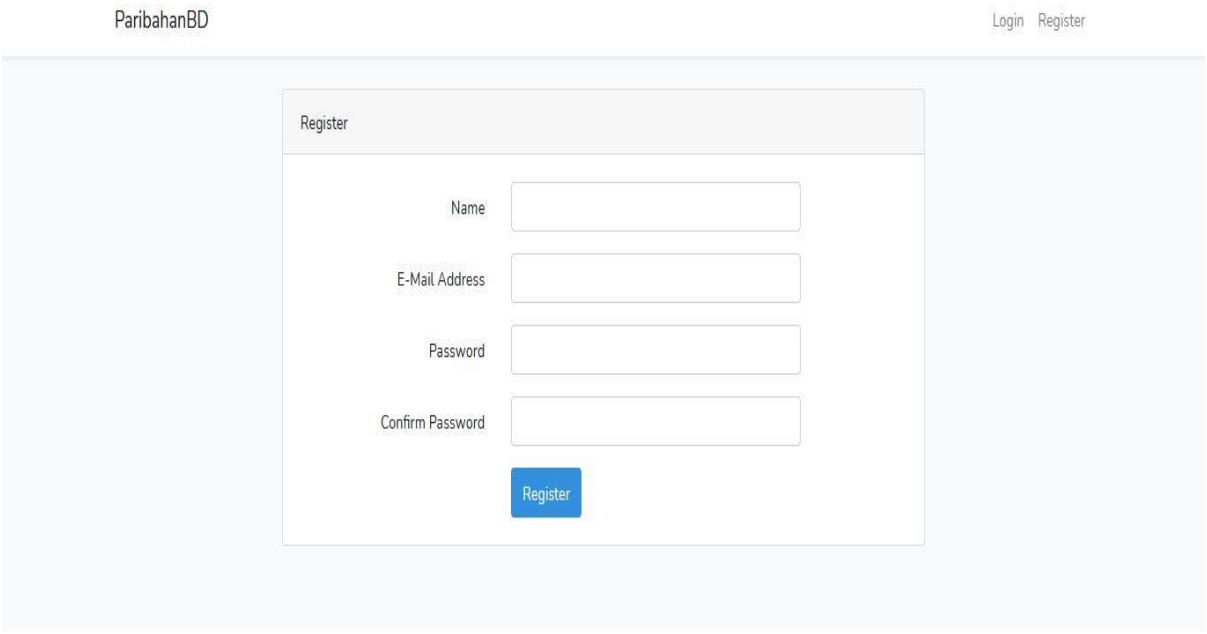

Figure 5.2 UI (User Register Page)

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5.2 User Dashboard

Users can view all aspects of the menu & dashboard with data.

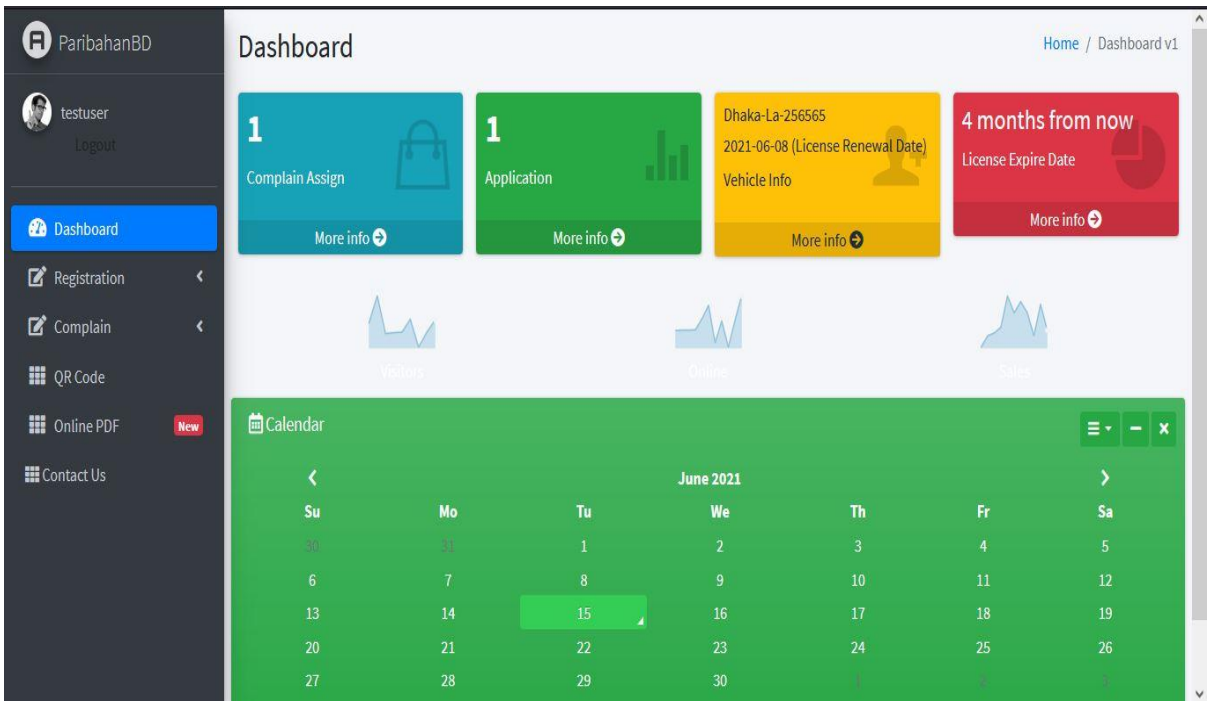

Figure 5.2 UI (User Dashboard Page)

5.3 Application form for virtual RC/DL

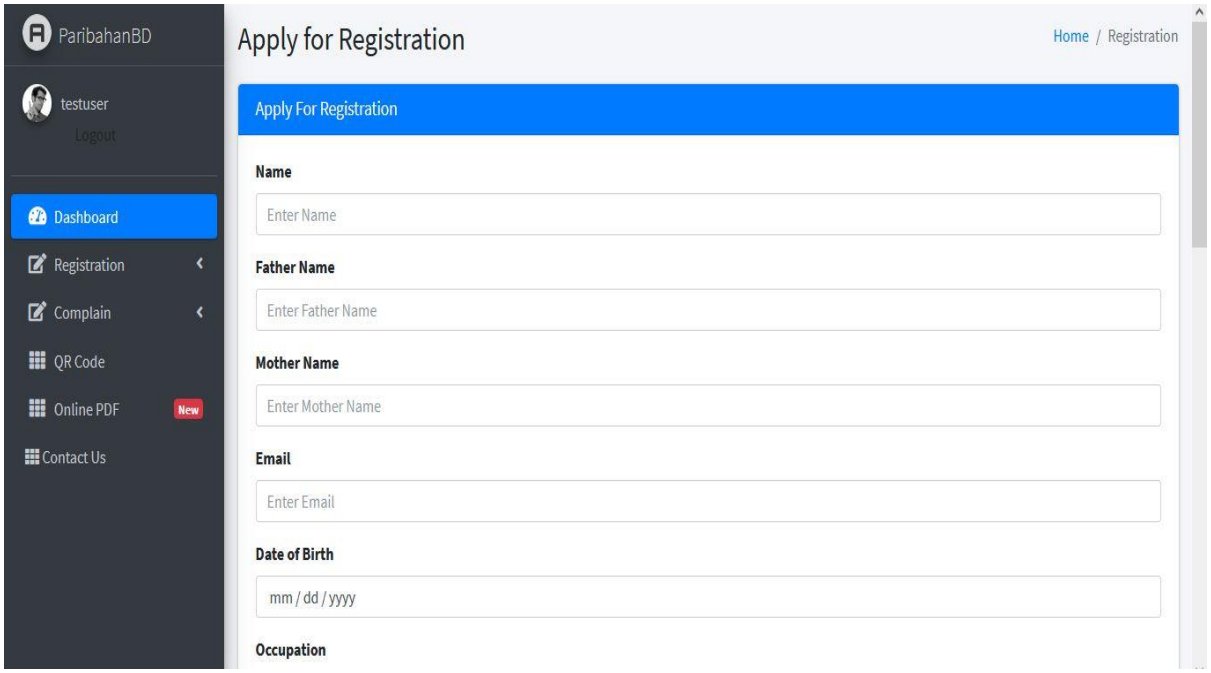

Figure 5.3 UI (User virtual RC/DL)

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5.4 User Application View

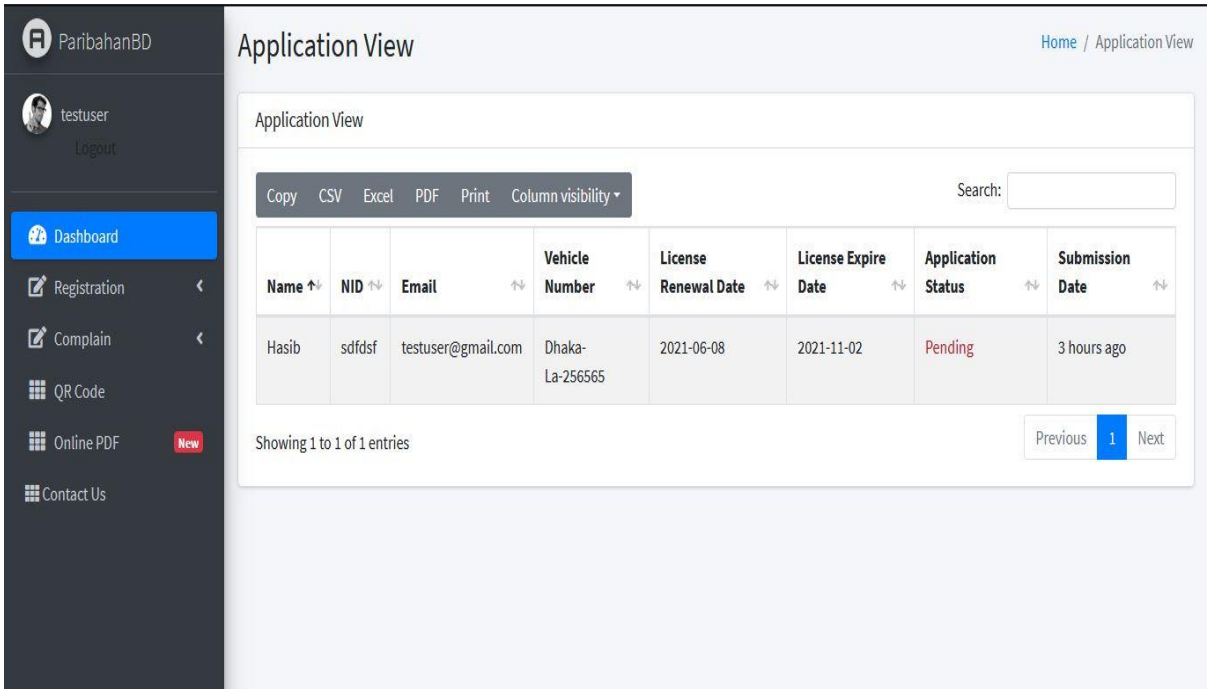

Figure 5.4 UI (User Application View)

5.5 Create Complain

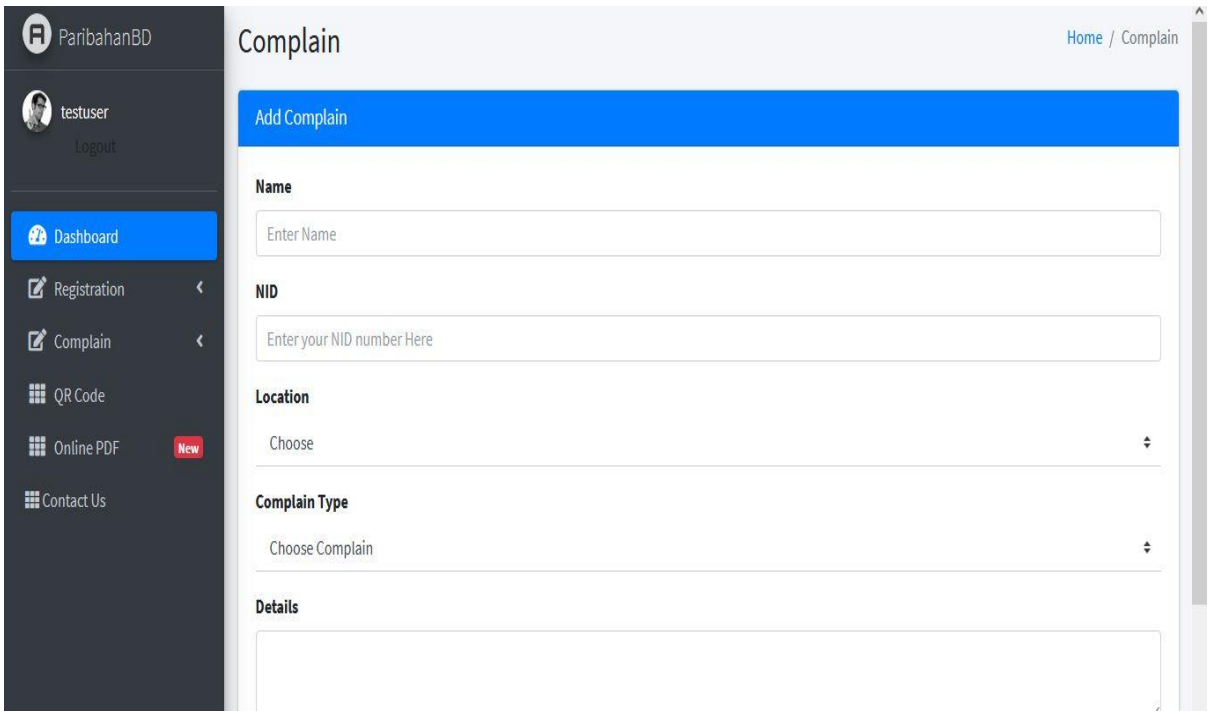

Figure 5.5 UI (User create complain)

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5.6 Show complains details

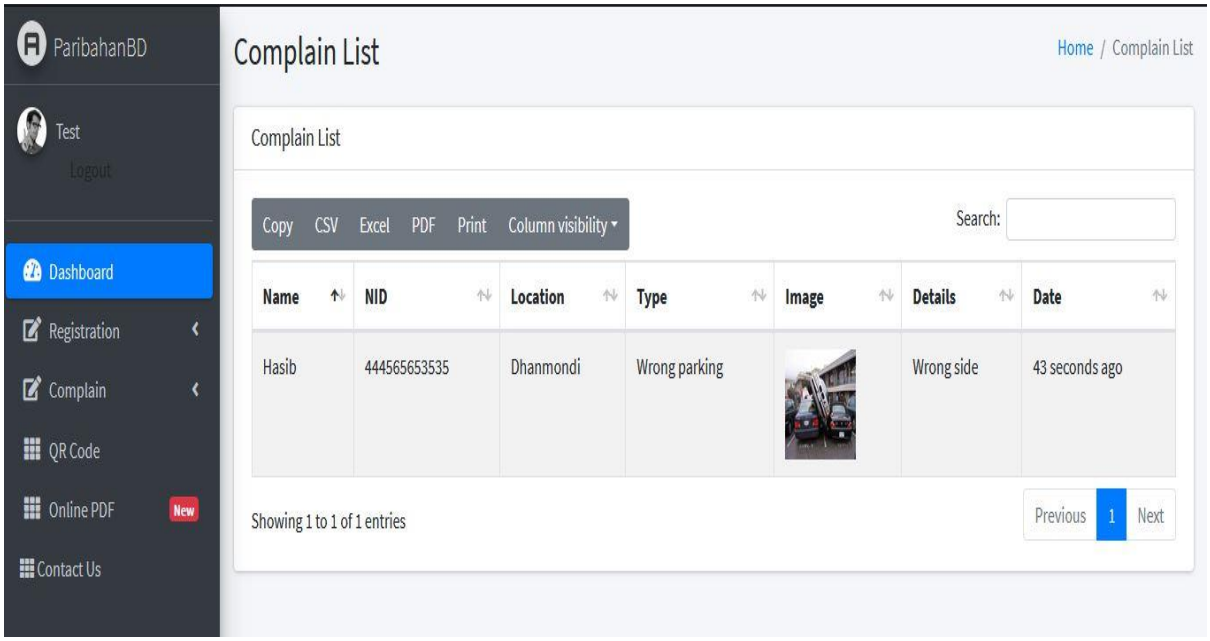

Figure 5.6 UI (user Show complains details)

5.7 Admin Login

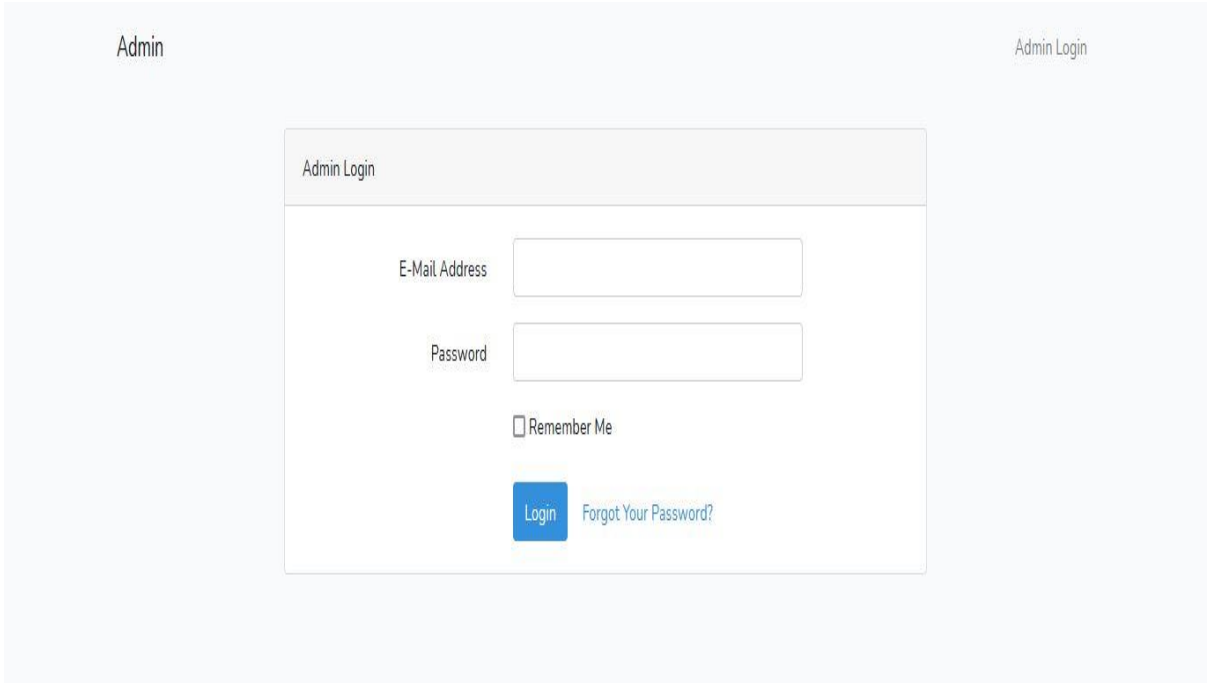

Figure 5.7 UI (Admin Login)

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5.8 Admin Dashboard

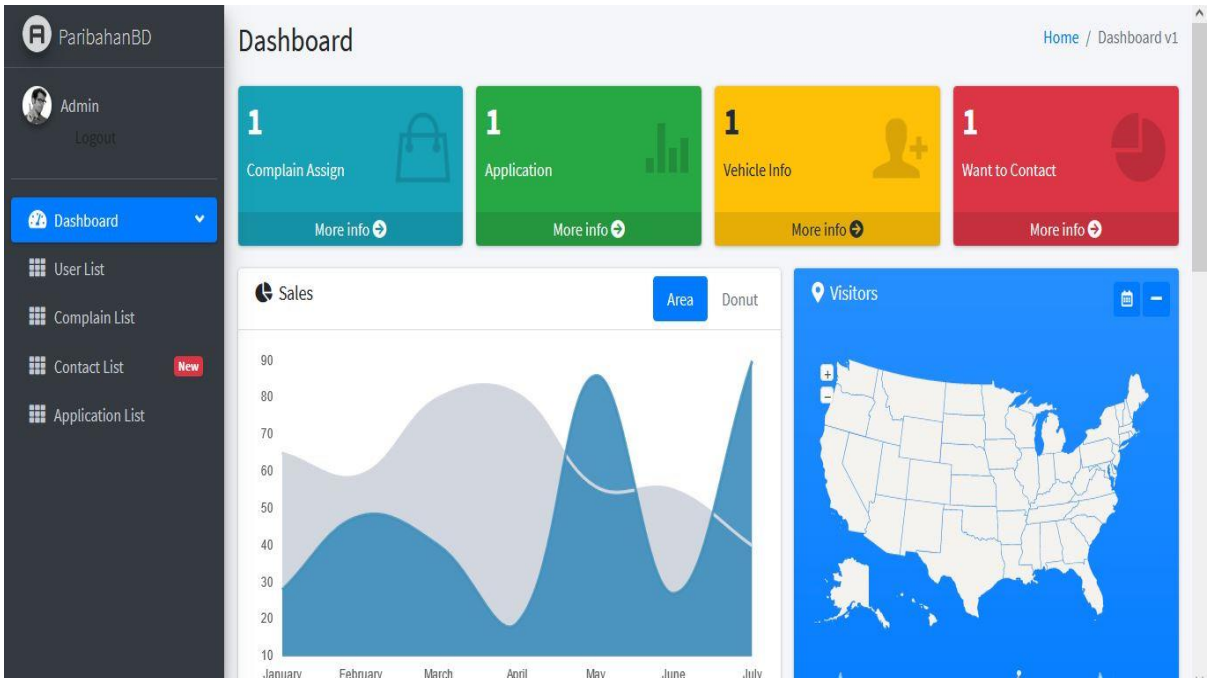

Figure 5.8 UI (Admin Dashboard)

5.9 User List

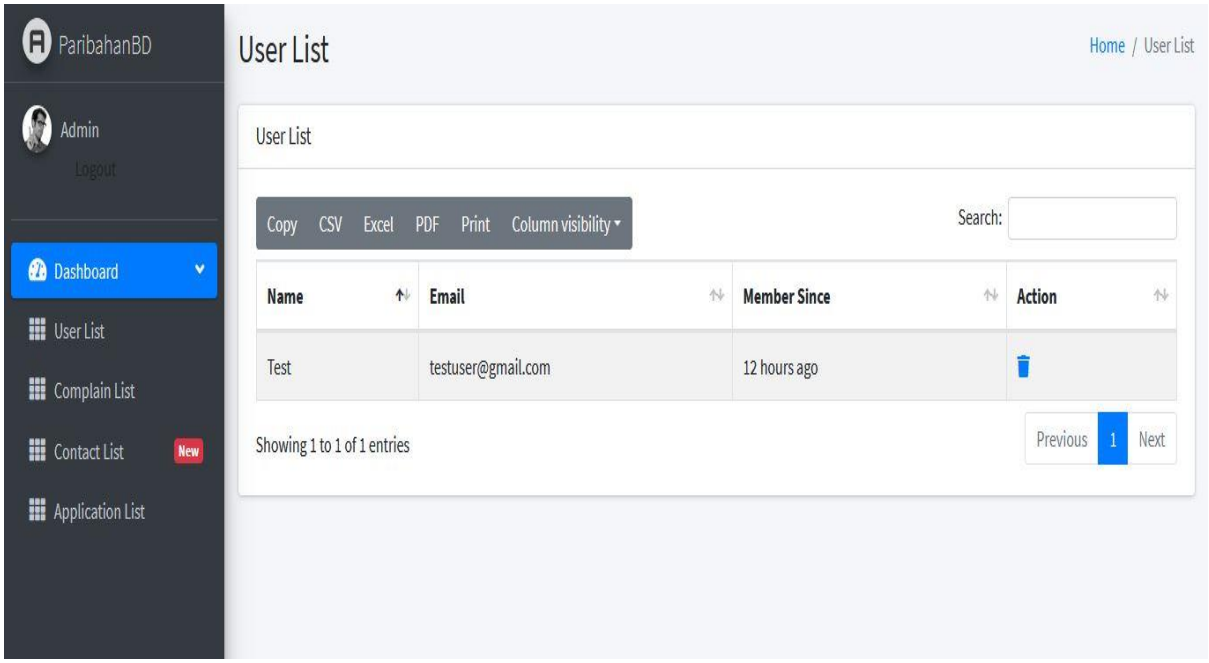

Figure 5.9 UI (User List)

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5.10 Admin Show All Register User Info

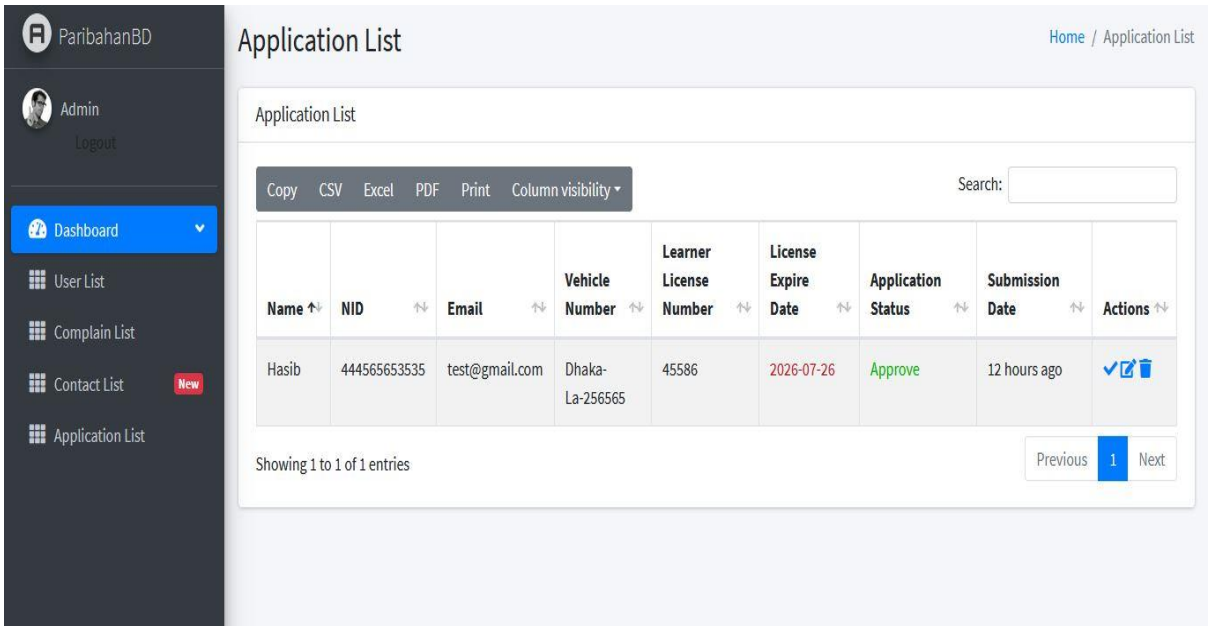

Figure 5.10 UI (User Application Info)

5.11 Complain List

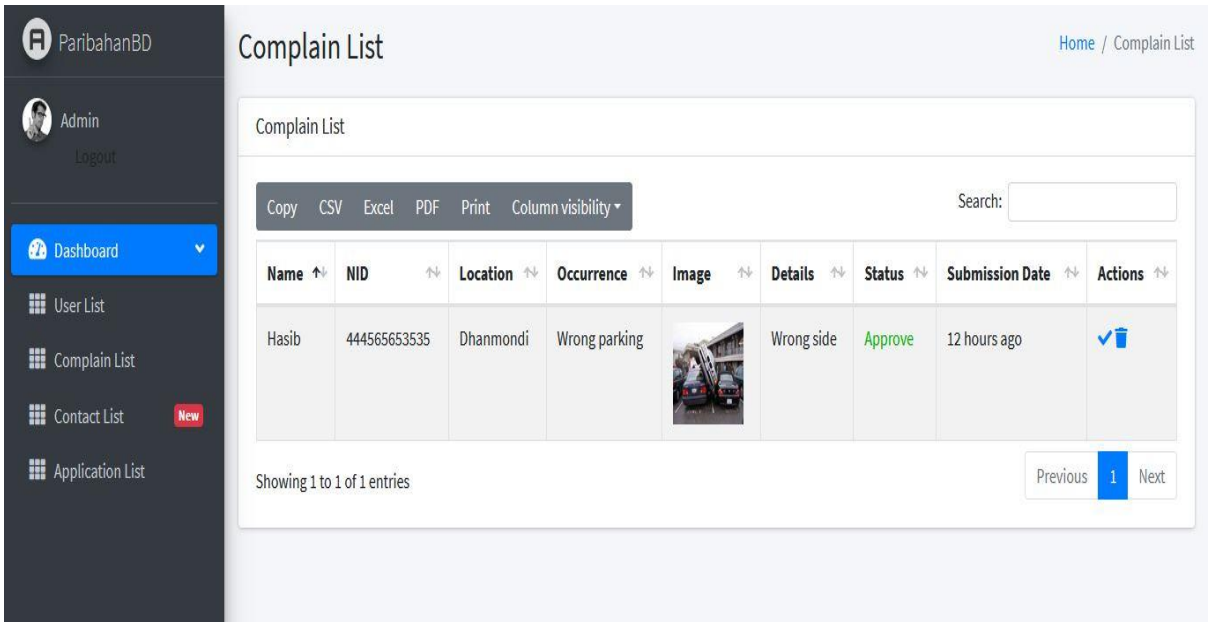

Figure 5.11 UI (Complain list)

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5.12 QR Code Scan for Digital Driving License

Figure 5.12 UI (QR code)

5.13 Contact List

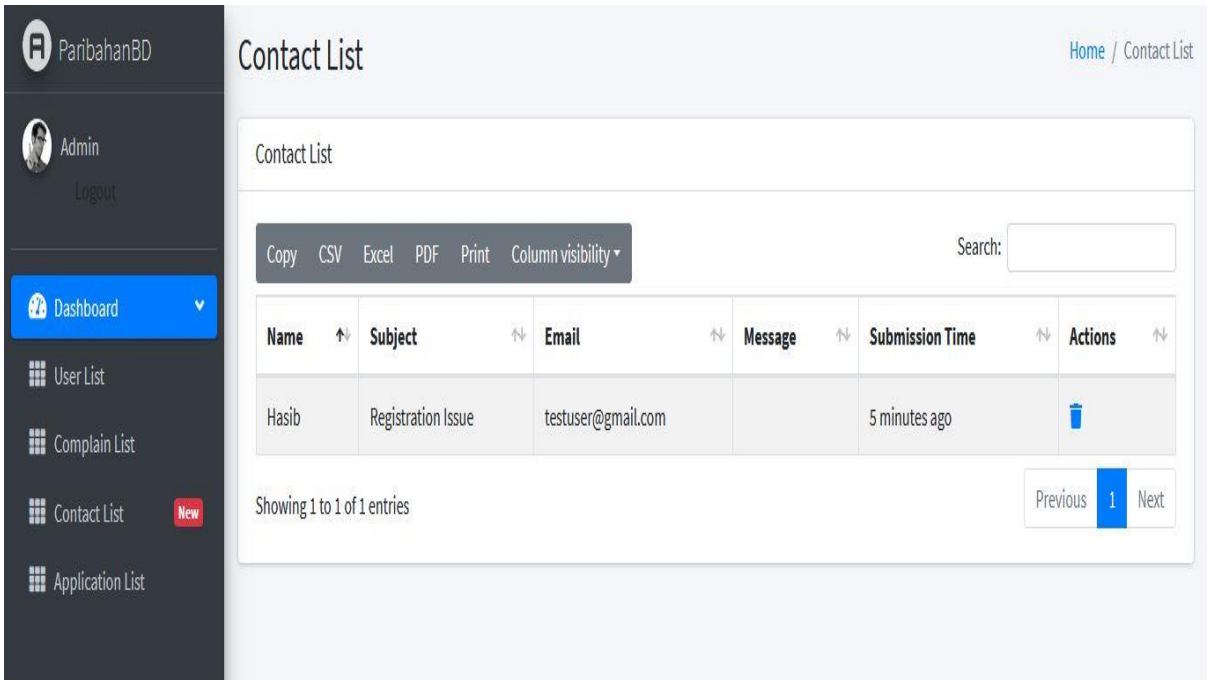

Figure 5.13 UI (Contact List)

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5.14 Provisional License PDF

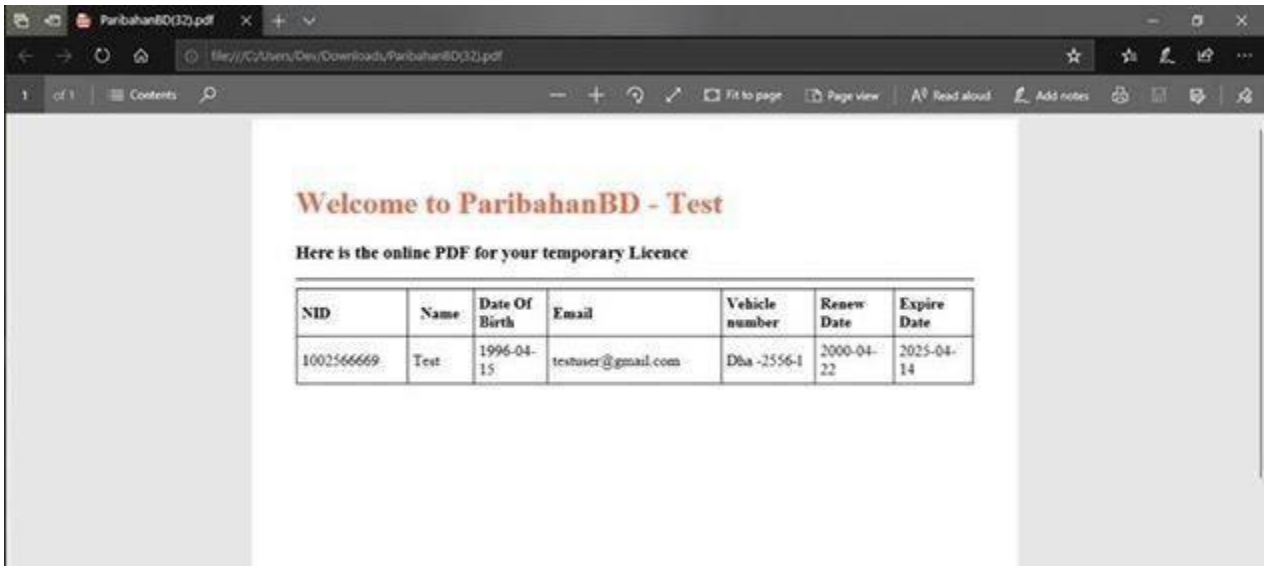

Figure 5.14 UI (License PDF)

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CHAPTER 6

PROJECT SUMMARY

6.1 GitHub Link

http://www.github.com/rabbi

6.2 Limitations

I ran into several roadblocks in the way. I'm still studying the required technologies, but I haven't been able to overcome these obstacles yet. But I'm optimistic that given enough time, I'll be able to study advanced topics and improve the code significantly.

Mobile version: The user would choose it on their mobile device because it is a travel-related app. I was unable to create a mobile version of the program due to my lack of experience with mobile devices and a lack of time.

6.3 Obstacles and Achievements

From the beginning of the process, I've gained much too much useful information for developers.

To begin with, I have no idea how to properly create a design, such as how to write algorithms and diagrams for project work such as database design. Before now, I had no idea what the algorithm meant or how much of it a programmer needs to construct a project. Many key aspects of the language I used to develop this structure are critical. Before starting the logical section, I check to see if the database architecture and project UI are complete; if they are, then executing the code would be a breeze. In a summary, creating this software was a major milestone for me.

6.4 Future Scope

The software being developed is the software of good quality. I'm doing my hardest to fulfill the true need for the stage of the procedure. But still, there is space to expand more. I have introduced the program and do my hardest to produce an exceptional system.

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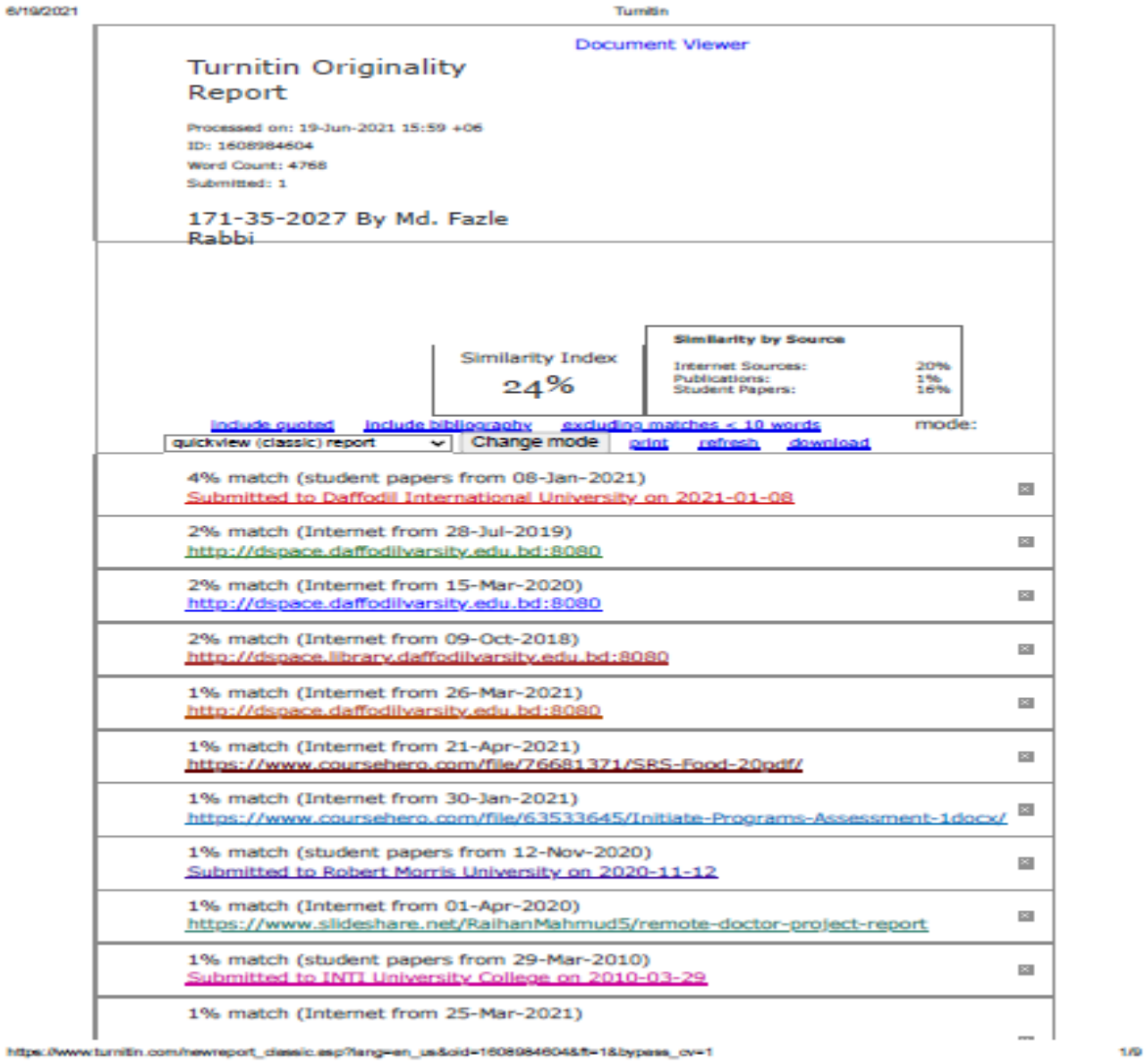
6.6 Plagiarism Report



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ParibahanBD Submitted by Md. Fazle Rabbi ID: 171-35-2027 Department of Software Engineering Daffodil International University Supervised by Md. Fahad Bin Zamal Assistant Professor Department of Software Engineering Daffodil International University This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering. © All right Reserved by Daffodil International University APPROVAL This project titled on "ParibahanBD", submitted by Md. Fazle Rabbi (ID: 171-35-2027) 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 i © Daffodil International UniversityHASH(0x7f1e0d4a08d0) for the purpose of achieving degree of Bachelor of Science from HASH(0x7f1e0d4979c0). Fahad Bin Zamal Supervisor HASH(0x7f1e0d4a7f88) and foremost, all the praise and thanks go to the Almighty Allah for all the blessings for all my project work, giving me patience and enabling me HASH(0x7f1e0d4a8090) respected supervisor Md. Fahad Bin Zamal for giving me his proper direction and for helping me to finish all the work in the end. I am especially grateful to my supervisor for his assistance throughout the project. His excellent guidance, advice, valuable constructive advice, has HASH(0x7f1e0d4ac360) have the opportunity to study at HASH(0x7f1e0d4abad8) our honorable department Head of Department, SWE, for encouraging me and giving me such an opportunity. I want to thank all my respected teachers who teach us in a great, interesting and understandable way. I am grateful to them for making my journey the easiest and most enjoyable. I am grateful to my parents as well as all the members of the family. My whole study journey would not have been so easy without their endless support and co-operation. I am HASH(0x7f1e0d4abd78) ultimate

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