

VEHICLE LICENSE MANAGEMENT SYSTEM

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This project is submitted to the Department of Computer Science and Engineering,
Daffodil International University in partial fulfillment of the requirements of
Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project/internship titled “VEHICLE LICENSE MANAGEMENT SYSTEM” submitted by MD.NUR ASIF RAHMAN, ID No: 171-15-9307 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 13th September, 2022.

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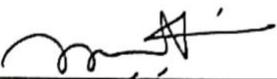


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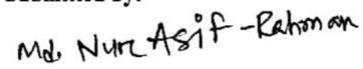
We hereby declare that; this project has been done by us under the supervision of Mr. Md. Aynul Hasan Nahid (Lecturer) Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

The creation of a system for applying for driving licenses was the subject of this study. The traditional technique for applying for a driving license in Bangladesh has been quite manual in the sense that the payment and delivery are both done by hand. It is noted that record keeping is largely manual, subject to disorganization and irreparable loss of data, and that users are always required to travel great distances from wherever they live to the license station in order to make payments and obtain driving licenses. Although this method is simple and understandable, it poses problems in the long run. As a result, the development and implementation of a web-based driving license application system aims to decrease the number of time-consuming procedures involved in obtaining driving licenses, provide safe and affordable ways to store and maintain user data, and enhance the functionality of vehicle users. The computer languages utilized in this project's design include HTML (Hyper-text Markup Language), PHP (Hyper-text Preprocessor), CSS (Cascading Style Sheet), Bootstrap, React, JavaScript, and MySQL. The approach is called Structured System Analysis and Design Methodology (Structured Query Language).

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Since the start of the driving license registration process in Bangladesh in 1987, records have largely been kept manually, which hasn't helped to increase the effectiveness of general automotive services in recent years. Computers are now recognized as very effective tools that have significantly contributed to the effective administration of information. Additionally, it has contributed more to the nation. The idea of computerizing this operation, however, becomes extremely necessary in order to eliminate the manual data processing method from which many problems have developed owing to the large number of car owners. Computerization has benefited in many spheres of life. In this project, the new approach that was developed is covered in detail along with the issues that have plagued the goals of motor vehicle registration. In order to identify the numerous issues that have been experienced when registering automobiles manually, this effort is being done to computerize the various data processing issues. This hypothesis contrasts the issues consumers have while registering their automobiles with the new system, which is more accurate and efficient in processing data. Such programs may be created using a variety of programming languages, including PASCAL, JAVA (Just Another Vague Acronym), VISUAL BASIC, and C++ (C Object-Oriented Programming Language), among others. However, the study will use PHP, JavaScript, React, a database (MySQL), and an Apache server (XAMPP).

The revolution in information and knowledge currently sweeping the globe is radically altering how people go about their daily lives. Governments all around the globe are implementing e-government to improve services to individuals and companies, foster social and economic growth, and increase the efficacy and efficiency of government operations.

Computers are essential to the growth of any business since they handle massive amounts of data quickly or at extraordinary speeds while also solving some of the more complicated challenges that humans confront. In the majority of our businesses, the recent emphasis on information and data processing has developed negatively, as in the

case of vehicle license plate and driver's license registration. Although motor vehicle driving license registration has been around for a while, the old system of registration was in use and did not significantly contribute to road safety until the new system of driving license registration was developed, which uses reflective sheeting that is easier to read at night. This project's principal objective, a new system of motor vehicle and plate number registration, was implemented in Bangladesh in 2008 and is managed by the motor licensing officer. It was implemented to strictly enforce adherence to traffic laws and regulations and to provide accurate information on the behavior of road users. Therefore, the purpose of this study is to computerize the registration of license plates and motor vehicles in order to increase competence, effectiveness, and efficiency.

The BRTA's motor licensing office only focuses on the registration and inspection of driving licenses; it does not provide any additional services, such as vehicle tracking, management of learner's permits and drivers' licenses, observation of drivers and vehicle operations, or the recording of accident and crime reports.

In order to register for a driving license, applicants had to personally bring the certified copy of their resident's registration as well as other paperwork to the municipal, state, and district offices.

In the past, the process of registering a driver's license required manually recording the information about each vehicle, from cars to buses to trucks and heavy machinery later, on ledgers, as well as keeping track of other relevant data, including registration, roadworthiness test certificates, change of ownership, engine and chassis numbers, and the expiration of the driver's license. Due to the tremendous inefficiency of this method, information could not be recovered when ledgers were destroyed or lost, which happens often.

1.2 Motivation

These are the issues that the department of driving license application and registration is having with the manual procedure for collecting a driver's license for a newly purchased car (Licensing office BRTA). The few elements stated below have made it more difficult for the noble aim to materialize:

- i. Participation of Unauthorized Officers: According to the researchers' observations, unauthored offices are engaged in this task, particularly when it comes to the registration of illegal cars, which can promote fraud.
- ii. Wrongly Charging Fees: The in-charge officer is obligated to provide the improper bill to vehicle owners, which may be the consequence of an under or overvaluation of the cars. This could be done with the intent to commit fraud or because the officer at work made a mistake.
- iii. Wrong Sales Allocation: Employees of one state's motor vehicle application office engage in the registration of automobiles that do not belong in that state.
- iv. Improper Accounting: The cashier managing the money earned has a tendency to make mistakes throughout this procedure, leading to some degree of inaccuracy in the job.
- v. Finding a record or information warning a vehicle owner might be challenging at times owing to incorrect information keeping as a consequence of negligence or the sheer number of records stored.
- vi. Physical, mental, and mental strength are all used in mental and manual labor. The officer in charge has mental strain as a result of having to organize all of the records for the vehicles within his control. He experiences the effects of manual labor since he must write everything out.
- vii. Excessive Time Consumption: Depending on the type of vehicle, the motor licensing officer must write and enter the information of the vehicle after the person whose vehicle is to be registered has paid the licensing authority the required amount of money along with a properly completed application, write personal information about the person whose vehicle is to be registered, and determine whether the vehicle is a commercial, private, or other type of vehicle. When all of them are combined, a lot of time has been spent on them.

1.3 Objective

According to the problem statement, it is clear that the issues with the manual method of registering motor vehicles aim to be replaced by a better system, a computerized system, which will help find solutions to the issues.

- i. Shortening the time needed for car registration and gathering data on all owners.
- ii. To guarantee a very high degree of accuracy during the registration of a certain type of vehicle or class of vehicles that are prone to mistakes in the manual approach.
- iii. Creating a system that will enable the development and assignment of an unbounded identifying mark or number (that is, the vehicle plate number).
- iv. To switch from the current manual method of registration to a computerized one that will make the process easier for both the car owner and the registration officer.
- v. This program's ability to be accessed illegally will be restricted, thus a password will be generated for the application software. The person in charge of the task will be the only one who has access to this password.
- vi. This also seeks to provide a current summary of the money made by registering drivers' licenses during a specific time period.

1.4 Expected Outcome

Due to the ongoing development of technology, computers are now required in order to process large amounts of data quickly or at extraordinary speeds. The goal of this project is to increase competence, efficiency, and effectiveness in the issue of license plates, driving licenses, and other associated tasks. The following outcomes are anticipated from this project: to increase the efficiency of the principal licensing officer in processing driving license registration documents; to create a method that will make it simple to store and retrieve vehicle and owner registration data in the future; to identify the quickest and easiest way to access vehicle owner registration data and missing vehicles; and to create a simple method for generating and allocating plate numbers.

1.5 Report Layout

Chapter 1: Introduction

We attempted to cover the project's introduction, motivation, aims, and predicted conclusion in Chapter 1. Finally, the report layout is used to convey the overall concept.

Chapter 2: Background

The backdrop of the application has been explored in this chapter. We also locate and describe the project's connected activities and scope. The difficulties are also explained here.

Chapter 3: Requirements Specification

The whole focus of this chapter will be on requirements specification. Modeling of business processes, analysis of requirements gathered, project use case model and description. Finally, there are design requirements and a logical data model.

Chapter 4: Design Specification

This chapter will go through the project's design. The requirements for front-end, back-end, interaction design, UX, and implementation are all outlined here.

Chapter 5: Conclusion and future scope

This is where we bring everything about the project to a close. Also, jot down some ideas for future projects.

CHAPTER 2

BACKGROUND

2.1 Introduction

In this chapter, we will explain and discuss some of the current websites or applications that are similar to our work. We'll strive to highlight the positive and negative aspects of various websites and apps.

We'll also talk about how our website will vary from other applications and websites, as well as what features we can include from those sites into our own to make it better.

Finally, we'll talk about the issues and breadth of our website's problem.

2.2 Related Works

In order to assess the issues and practicality of our suggested solution, which we will go into more depth about below, we looked at numerous existing applications and websites.

You may discover a list of some of the most well-liked websites and programs below.

- BRTA Service Portal
- Driving License Verification
- Car Dokan
- BDDTI.COM

2.3 Comparative Analysis

Described related work is based on the service types the other sites are providing and their way of procedure. Not every site prove license apply, view registered cars, register car, pay fees at a time. Some sites are just providing driving skills as a trainer but not authored as a license giver. But in this work, user can apply for license and admins can add, view, and update registered cars. Also, authorities can provide license to the applied folks. All these processes can be done through this website only.

2.3.1 BRTA (Bangladesh Road Transport Authority)

The BRTA Service Portal (BSP) will enable citizens to register as service recipients for learner driving licenses, smart card driving licenses, driving license renewals, duplicate driving licenses, and all other pertinent services as drivers, owners, and vehicle dealers.

[1]

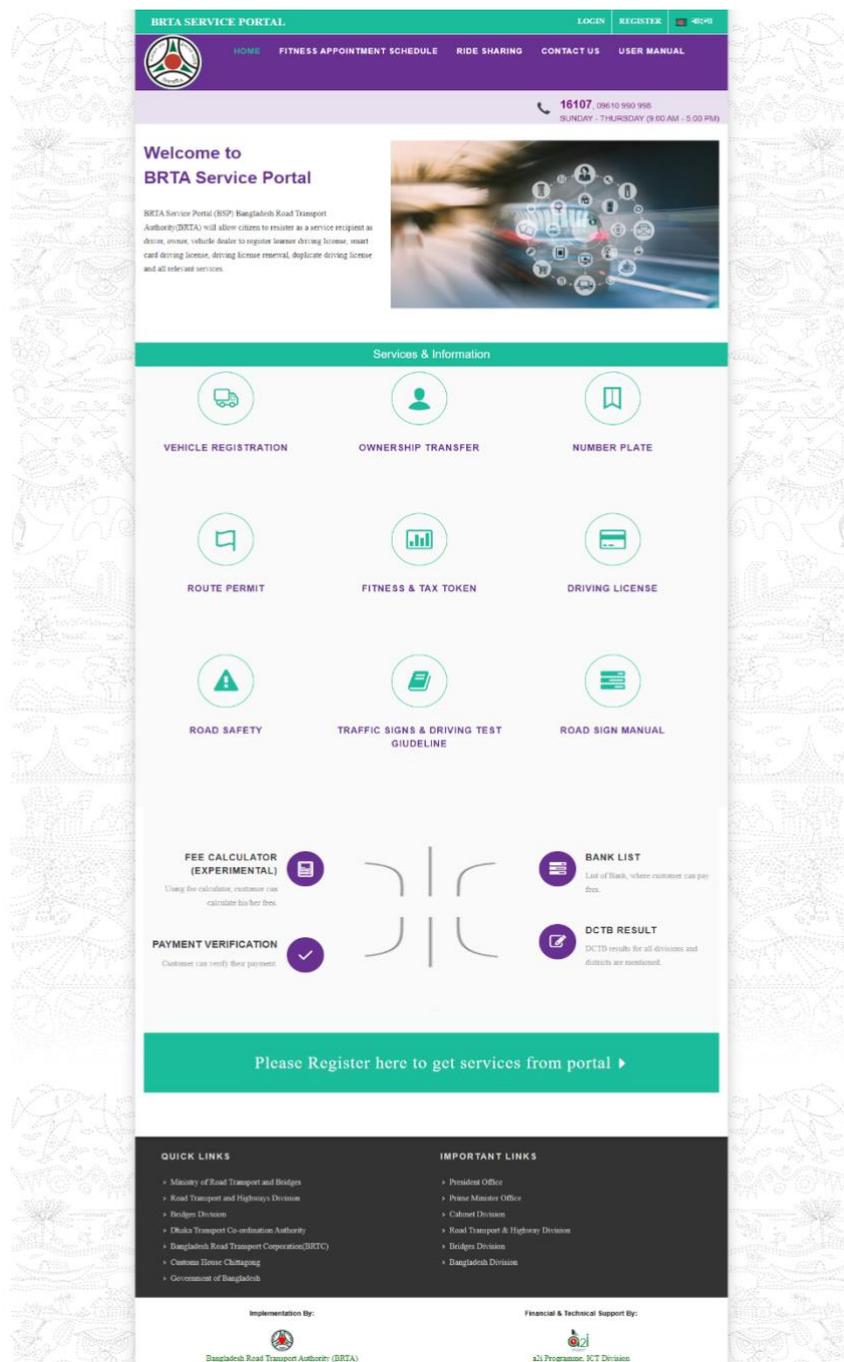


Figure 2.1 BRTA

2.3.2 Driving License Verification

Submissions from service seekers are sent to the BRTA in Dhaka for authentication of the license acquired in Bangladesh. The Consulate General grants an authentication certificate in the driver's favor after getting a favorable report from BRTA.[2]

The screenshot displays the website for the Consulate General of Bangladesh, Sydney. The header includes the consulate's name and a search bar. The main content area is titled "Driving License Verification" and contains the following text:

The Consulate General of Bangladesh offers a 'Driver's License Authentication' service to Bangladesh Nationals living in New South Wales and Queensland. Applications received from the service seekers are forwarded to BRTA, Dhaka for verifying the authenticity of the license obtained in Bangladesh. After receiving a positive report from BRTA, the Consulate General issues an authentication certificate in favour of the driver's license holder.

* Note: Applicants living only in **NSW & Queensland** are eligible to apply for 'Driver's License Authentication' service at the Consulate General of Bangladesh, Sydney. Applicants from all other states and territories must approach the High Commission of Bangladesh in Canberra for this service.

Service-seekers may also utilise postal services to obtain their desired services from the Consulate. For services that require physical presence, please secure your visiting slot by booking appointment.

Below the text are several expandable sections:

- + Requirements
- + Online Appointment Booking
- + Fees and Payment
- + How and Where to Apply
- + Delivery

On the right side of the page, there is a "Welcome Message" section featuring a portrait of a man in a suit and tie. Below this is a "Bangladesh Investment Development Authority" section with the BIDA logo. Further down are sections for "Bangladesh Trade Portal" (with BTP logo), "Bangladesh Parjatan Corporation", "Events / Trade fare", and "Follow us on" with social media icons for Facebook, YouTube, and Twitter.

The footer of the page includes the copyright notice: "© 2022, Consulate General of the People's Republic of Bangladesh, Sydney. All Rights Reserved." and "Made with ❤️ by Misfit Tech".

Figure 2.2 Driving License Verification

2.3.3 Car Dokan

The main and most reliable source of all automotive information in Bangladesh, including news, specs, and prices, is CarDokan.Com.[3]

CAR DOKAN HOME CAR COMPARE TIPS & TRICKS BLOG

Car Driving License In Bangladesh (Complete Guide)

by glibh... January 5, 2022 at 7:04 PM

CAR DRIVING LICENSE IN BANGLADESH (COMPLETE GUIDE)

A driving license is a very needed paper for driving. It is not just a paper. It is the government-issued permission for driving. You will need to have a driving license to drive in any country. It will be used when driving a driving license. An application of a driving license, then you can get a driving license, and the driving license renewal process.

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- 1. What is a Driving License?
- 2. Importance of the Driving License in Bangladesh
- 3. How to Get a Driving License?
- 4. Driving License Renewal Process
- 5. Learner Driving License
- 6. Professional Driving License
- 7. BRTA Driving License Online Application

What is a Driving License?

A driving license means official permission from the government for driving. Generally, it can be issued after driving test. A license issued under the governmental authority and permits the holder to operate a motor vehicle is called a driving license. A driving license holder must have passed a test to receive a license card. There is a driving test to check the experience of driving license and getting a driving license.

Importance of the Driving License in Bangladesh

Bangladesh Road Transport Authority (BRTA) is the authority that issues driving license in Bangladesh. Among the 63 administrative units, BRTA is established in 32 districts. A driving license is crucial for a motor vehicle driver after all. It is not only a paper. It is the government permission for driving a motor vehicle on the road. If you don't have a driving license, you will not be able to drive a vehicle. Without a driving license, driving is a crime. You may have been arrested by Bangladesh police for the crime if there has been a driving license with you.

How to Get a Driving License?

First, you have to apply for a license or application driving license in the prescribed form of the BRTA, and then you can apply for the original license. There are some important documents for applying for a driving license.

Some Required Documents For Applying For A Driving License

- 1. Copy of national ID card certificate or passport
- 2. Recently stamped and 2 copies passport size photograph
- 3. Medical certificate by a registered doctor
- 4. Form, such as Tk.200.00 only for motorcycles, and Tk.500.00 for motorcycle and light vehicles

After getting a medical or lung license, you can apply for a smart card driving license if you want. If you want to get a smart card driving license, you must require some documents also.

Some Required Documents For Getting A Smart Card Driving License

- 1. Apply to the prescribed form by the BRTA office
- 2. A copy of medical certificate and health certificate (prescribed will be required)
- 3. Medical certificate by a registered doctor
- 4. Professional license for Tk.1500.00 (with 5-year renewal) and Tk.2042.00 for amateur license (with 3-year renewal)
- 5. Recently taken 2 copies of passport size photo
- 6. Police license report should be submitted if the license is a professional—medical certificate by a registered doctor

Driving License Renewal Process

There have been types of driving license. One is a professional driving license, and the other one is a learner driving license. A professional driving license is for those who are driving a car professionally. And learner driving license is for those who drive the car as their hobby.

Learner Driving License

At first, the lowest fee (including 10 days of theory - Tk. 200 and after the theory - Tk. 2000) fee to be submitted with the necessary papers to the BRTA office. If the papers are granted again then the customer's biometric will be taken on the same day. After completing the printing process, it will be confirmed to the customer by BRTA.

Professional Driving License

The customer's approval for a professional driving license has to take part in a practical examination. After passing the examination, they have to pay a fee for including 10 days of theory - Tk. 1500 and after the theory - Tk. 1522 and apply from with the required papers. If the papers are granted again then, the customer's biometric will be taken on the same day. After completing the printing process, it will be confirmed to the customer by BRTA.

Required papers

- 1. Form 1, i.e., the application form for renewal of the driving license. This form can be collected from your nearest BRTA office or can be downloaded online.
- 2. Form 1 and 5A for declaring your medical fitness. You can collect the form from the BRTA office or can download it online.
- 3. Fingerprint driving license
- 4. Age and address proof
- 5. Passport size photographs
- 6. Fitness (self-declared) certificate for a new or heavy motor vehicle

BRTA Driving License Online Application

Bangladesh Road Transport Authority is the full form of BRTA. You can download all the required papers for applying for a driving license from the internet for free. To download, click the following link:

[Download The Online Application Papers PDF Copy](#)

This article is all about the driving license. I hope I have mentioned all the details about a driving license. For printing this article, some important information will be taken from a valid site on the internet. If there is any wrong data, please inform us in the right one by adding a comment on the comment box. Stay with us for the next update.

Previous Post: [Read Essential Car Driving Safety Equipment](#)

Next Post: [Read Licenseless Car In Bangladesh \(2022\)](#)

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Figure 2.3 Car Dokan

2.3.4 BDDTI.COM

They provide driving instruction in the city of Dhaka through a list of driving schools in the city. [4]

The screenshot displays the BDDTI.COM website interface. At the top, there is a navigation bar with the logo and contact information: "Call Us: 0910-19833" and "Mail: contact@bdti.com". Below the navigation bar is a large banner image showing a group of people standing in front of a white car. The main content area is titled "Our Most Popular Courses" and lists six options: Auto Car Driving, Manual Car Driving, Bike Driving, Scooter Driving, Defensive Driving, and Bicycle Riding. Each course has a brief description and a "Read more" button. Below this is a section titled "Facilities Of Training With Us" which lists: Expert Trainers, Hostel Facilities, AC Large Classroom, Job Placement, Driving Certificate, and Reasonable Price. The "Driving License Services" section includes "National Driving License" and "International Driving License". A statistics bar shows "652 Total Applied", "643 Happy Students", and "1.1 Average Rating". The "Learners Feedback" section features several testimonials with star ratings. Below this is an "About Our Driving Training Institute" section with a description and contact details. The "Our Sister Concern" section lists logos for Vidy Academy and Adhikar Education. The "Our Location" section provides addresses and contact information for four branches: Dharmadil Branch, Uttara Branch, Gulshan Branch, and Mirpur Branch. The footer contains the copyright notice: "© 2022 Driving School in Dhaka | BDDTI.COM | All Rights Reserved".

Figure 2.4 BDDTI.COM

2.4 Scope of The Problem

One of the main sources of corruption in our nation is the vehicle license. Eliminating the vehicle license would also be an action against corruption. The first area where the time complication begins is with the vehicle license. Without conducting a comprehensive investigation, the officials giving licenses cause numerous accidents around the city. If the driving permits are issued properly, this would be a step towards preventing accidents. Our vehicle license management system's main goal is to offer a cutting-edge technology solution for the convenience of vehicle license operations including registration and learner's permits, among other things. With the least amount of mistake and difficulty, it will significantly lessen the issues encountered with the current system.

2.5 Challenges

Any activity or endeavor you undertake is likely to encounter difficulties and roadblocks. Those are the toughest challenges that we must all overcome. As a result, we too face certain challenges with our project. Being new to this kind of platform, we faced some challenges while starting our project, but we made every effort to create a website that was both user-friendly and aesthetically pleasing as well as as informative as possible in order to help others. Although we made every effort to ensure that our product was error-free, we still need to test it more carefully. The fact that our entire project is based around tour schedules is another factor. If people do not share their opinions or experiences, it will be impossible for us to gather information and enhance our website. We must thus ensure that everything works in both our advantage and the favor of others. These things could provide us with challenges that we must overcome.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Introduction

This section will describe how the application is presented, what the service does, who may access it, and how to utilize it. It will show what data is necessary to create this project and how it works. It's important since it shows how the system's needs interact with one another.

3.2 Analysis of Requirements

- The program will assist users in submitting and viewing their licensing applications.
- A user must register their car in the authority's database before applying for a license for that vehicle.
- Users can log in and register to protect their privacy.
- For the website, authorities will receive a special admin allowance.
- License applications can be viewed by authorities, who can either accept or reject them.
- Using the admin site, authorities can add or remove fines and the list of vehicles.
- Users will have access to making reservations online whenever they want.

3.3 Use Case Diagram

Use case diagrams are primarily used to summarize some of the connections between use cases, actors, and systems. It occasionally deviates from the order. In essence, it clarifies a system's context, records the requirements, and verifies the system design. It specifies the system of a project's actor's desired features, and the actor can also create, read, update, and delete. The actor user and admin can access various functions, as seen in figure 3.1. The user is connected to the register/login function, the application for a car license, and the fees, and the administrator is connected to the admin panel and the log in function.

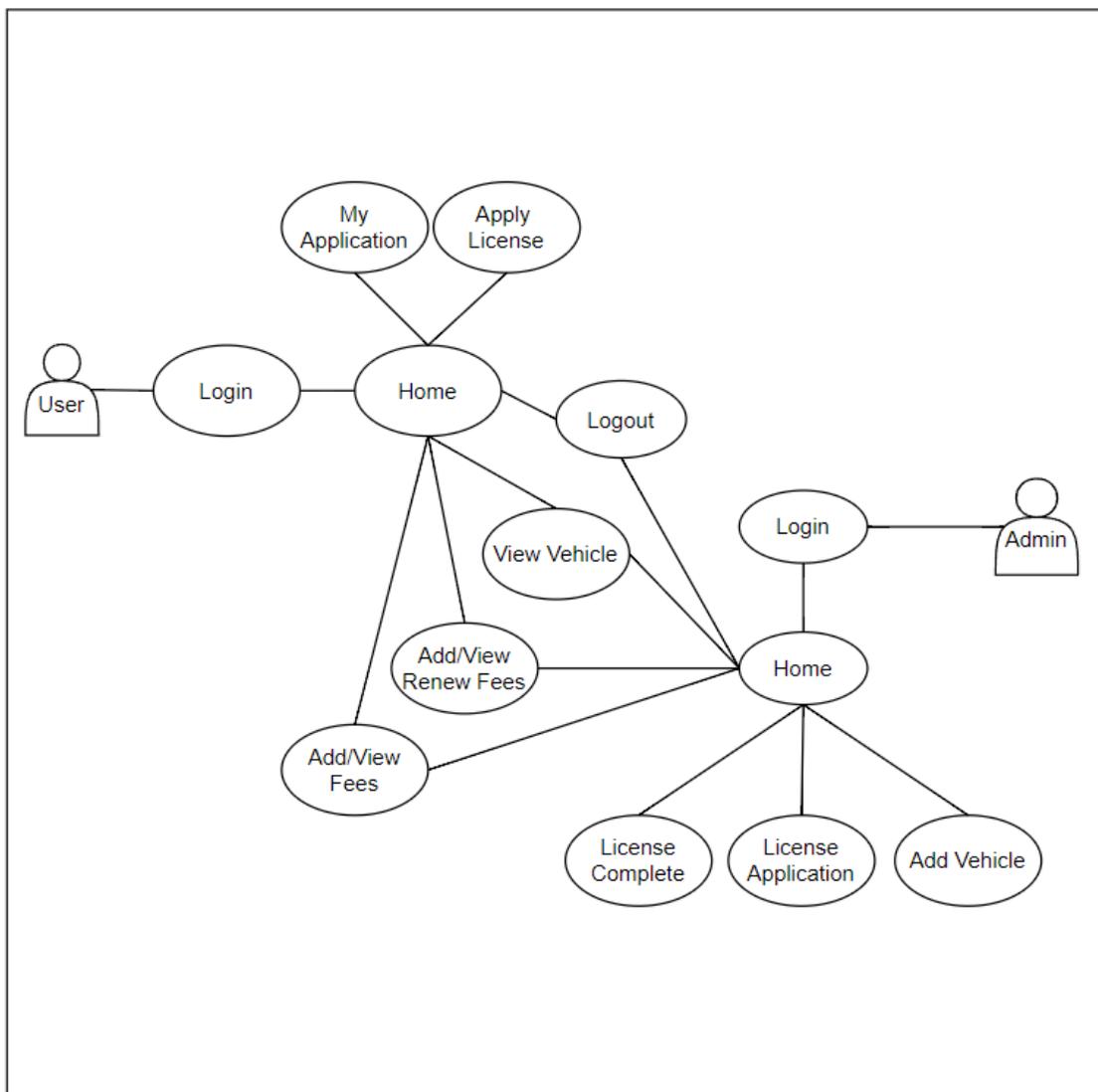


Figure 3.1: Use Case Diagram

3.4 Tables of Use Case Diagram

Table 3.1: User Vehicle License Apply

Use Case Name	Apply for Vehicle License
Actor	User
User Action	System Response <ol style="list-style-type: none">1. Vehicle Type2. Vehicle Chassis Number3. Vehicle Engine Number4. Displays Vehicle Model5. Displays Vehicle CC6. Displays Vehicle Importer7. Displays Registration Fee8. Input Apply Form

Table 3.2: Admin Action on Confirmation of an Application

Use Case Name	Admin Action
Actor	Admin
User Action	System Response <ol style="list-style-type: none">1. Add Vehicle and View Vehicle2. Vehicle License Applicant List and Complete List3. Add and View Registration Fee List4. Add and View Renew Fee List

3.5 Component Diagram

Generally component diagrams lay out the actual system being developed at several high levels of capability. Each component has a distinct goal. It explains the parts that go into creating functions. However, it does not expressly specify the capabilities. As shown in figure 3.2, we primarily utilize it for our project to depict the physical components, organizational structures, and interactions among those components.

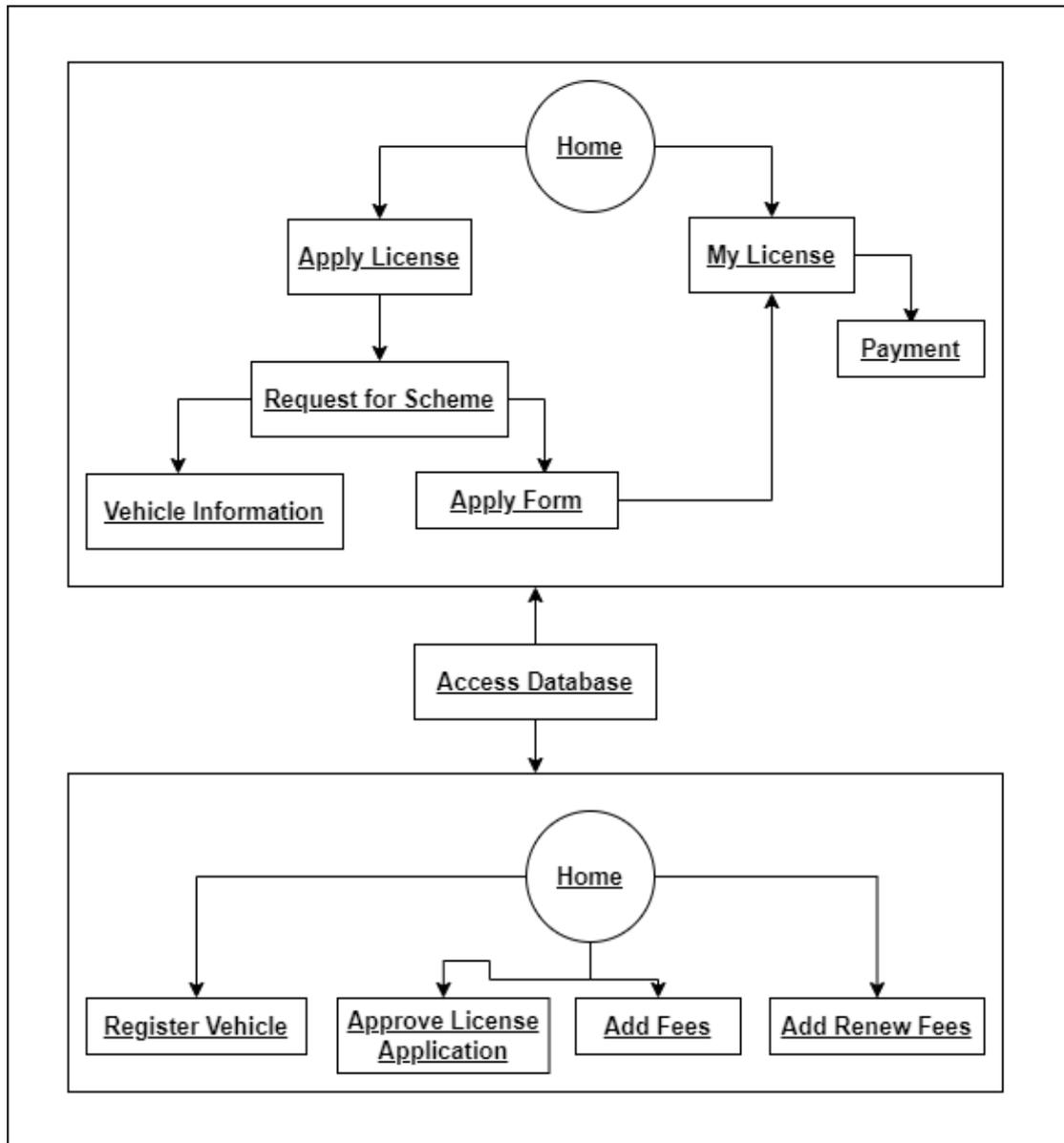


Figure 3.2: Component Diagram

3.6 Data Flow Diagram

In order to display our system graphically, we employed data flow diagrams. It displays the transmission and reception of data. It functions by accepting data and producing output using several procedures with the aid of a database. Each process is identified by a unique name, as shown in figure 3.3.

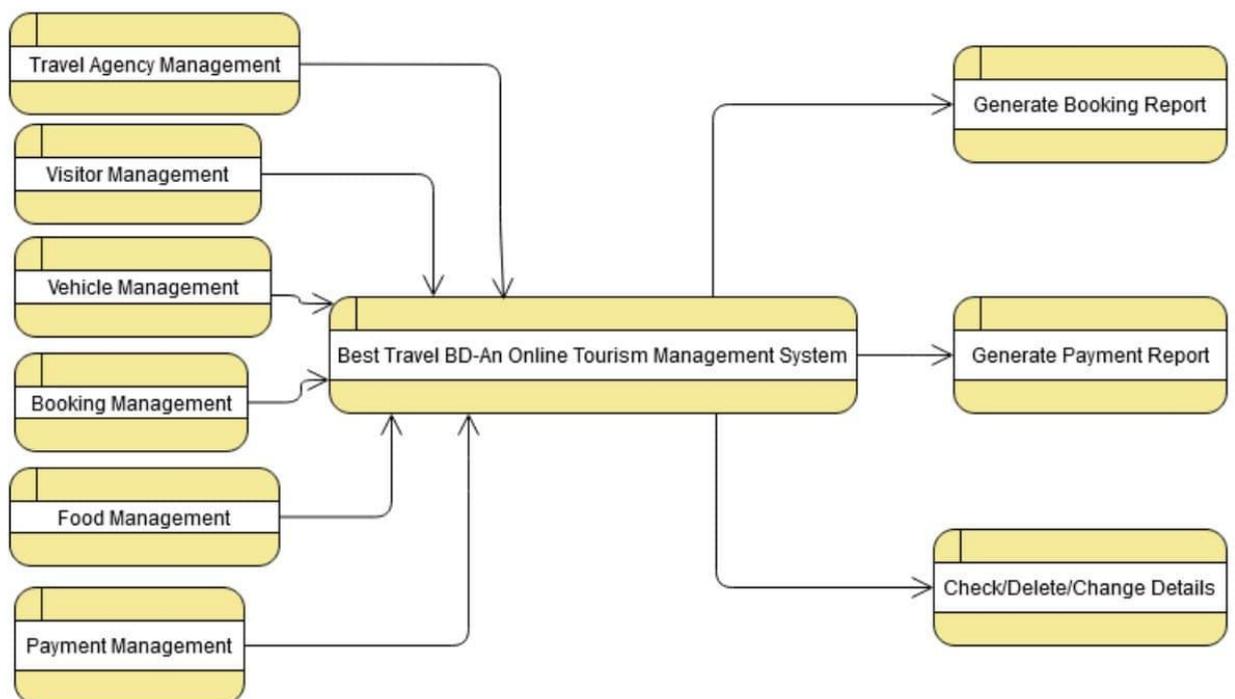


Figure 3.3: Data Flow Diagram

3.7 Sequence Diagram

It helps us understand how our system functions by delivering and receiving orders. It functions between system's active objects. A sequence diagram details how operations are carried out and depicts all conceivable system routes. Figure 3.4 shows how communications are conveyed from one person to another, how they respond, and when. The passing of messages may be seen horizontally, while time can be seen vertically. This time is for the order and not for duration.

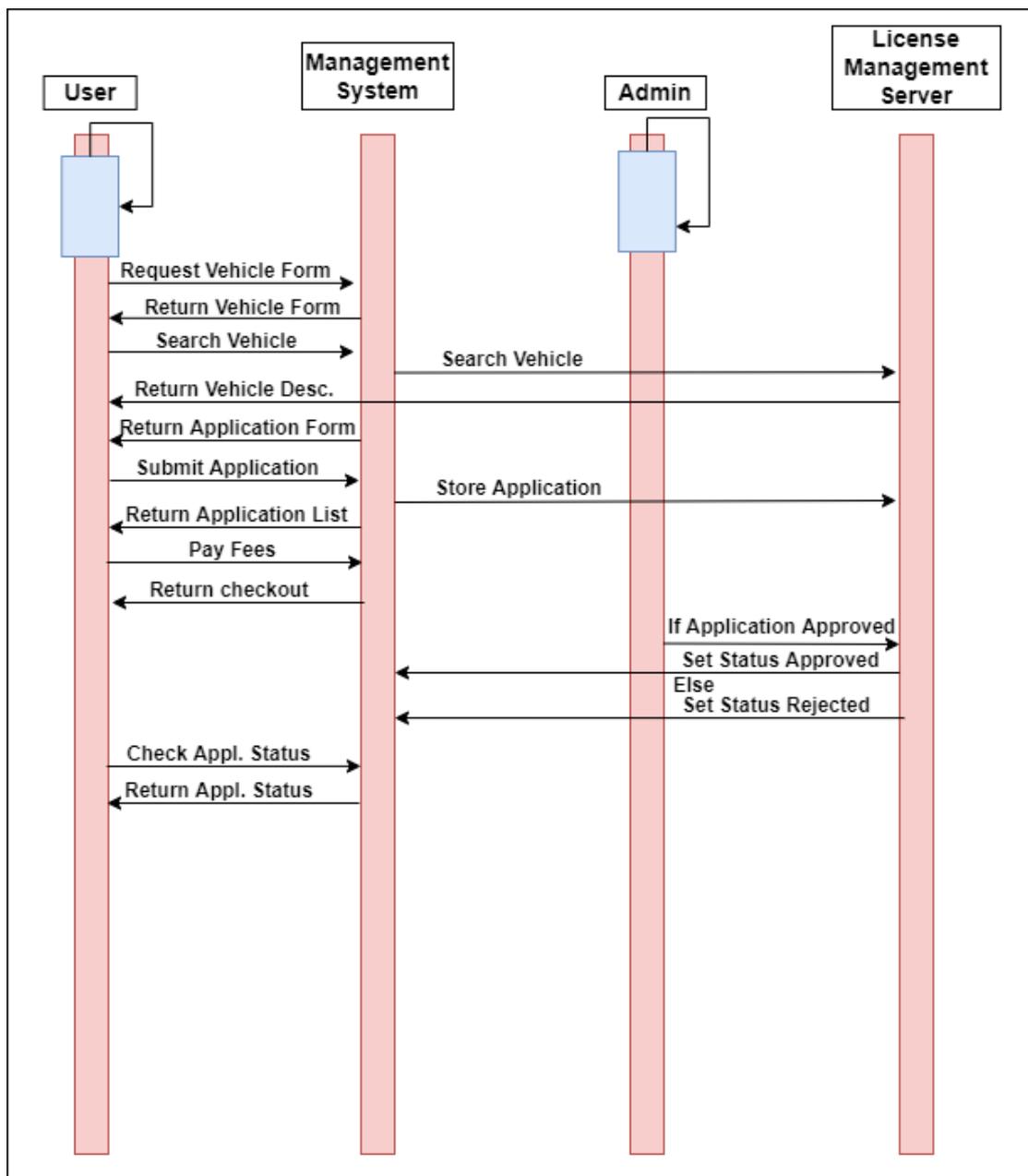


Figure 3.4: Sequence Diagram

3.8 Design Requirement

- i. This system will have two types of users: Visitors and Admin.
- ii. This approach enables consumers to apply quickly using a single form.
- iii. The user may access information about their car and the registration charge.
- iv. The admin can handle anything using the admin panel.
- v. The admin portal allows for database management.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Introduction

The project's user interface will be discussed in this chapter (UI). The most important design to complete is the user interface since without a nice and user-friendly UI, people won't be motivated to use the program. This chapter will discuss the Web's front end and back-end designs as well as the App.

4.2 Web View

The front end and back end of the website that we designed is shown here.

4.2.1 Front-End Design

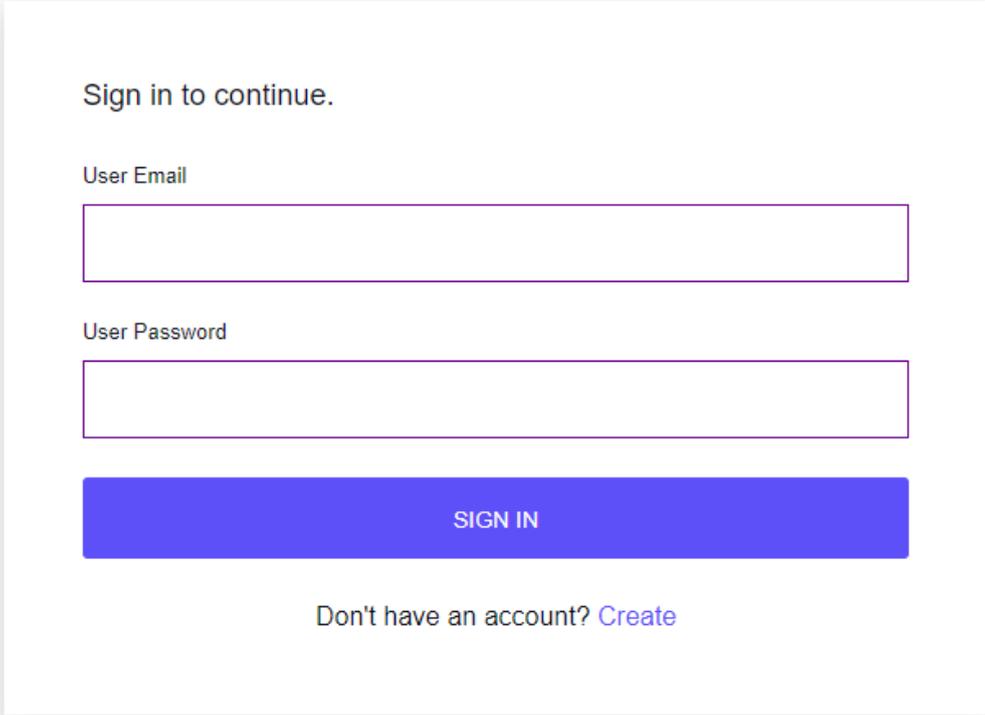
Front-end design refers to how a website appears to users. It is a means of interaction between users and databases. A client-side development is referred to as front-end design. The frontend design is typically the most crucial element in web design. For the icons on our website, we utilized glyph icons [5] and font amazing [6]. Bootstrap is a free front-end tool that streamlines and expedites web development [7]. Along with optional JS extensions, Bootstrap offers templates for fonts, menus, buttons, tables, navigation, modal dialogs, picture carousels, and much more. The components of the website's design are as follows:

Because they are easy to use and modify, we decided to utilize Bootstrap and Node.js [8] for the front end. A framework called Bootstrap makes building websites simpler and quicker. It provides HTML [9] and CSS-based [10] design templates for typography, forms, buttons, tables, navigation, modals, photo carousels, and more. You may also utilize JavaScript plug-ins [11] with it. On the other hand, Node.js may be used in both the frontend and the backend. To facilitate user interaction with the website, a straightforward front-end interface was created. In essence, this style makes a website more appealing to visitors. As a Vehicle License Management System, we also need to think about how to improve the aesthetics of our website. That is why we utilize sliders and maintain several types of colors or sections.

Our website is responsive. The website's designs are seen below:

4.2.2 Log in page

To access the website, user need to log in using valid e-mail and password.



Sign in to continue.

User Email

User Password

SIGN IN

Don't have an account? [Create](#)

Figure 4.1 Log in page

4.2.3 Registration Page

If the users don't have any valid account in the website, then they can register fulfilling a simple form.

New here?

User Name

User Email

User Phone

User NID

Date Of Birth

New Password

Re-type Password

I agree to all Terms & Conditions

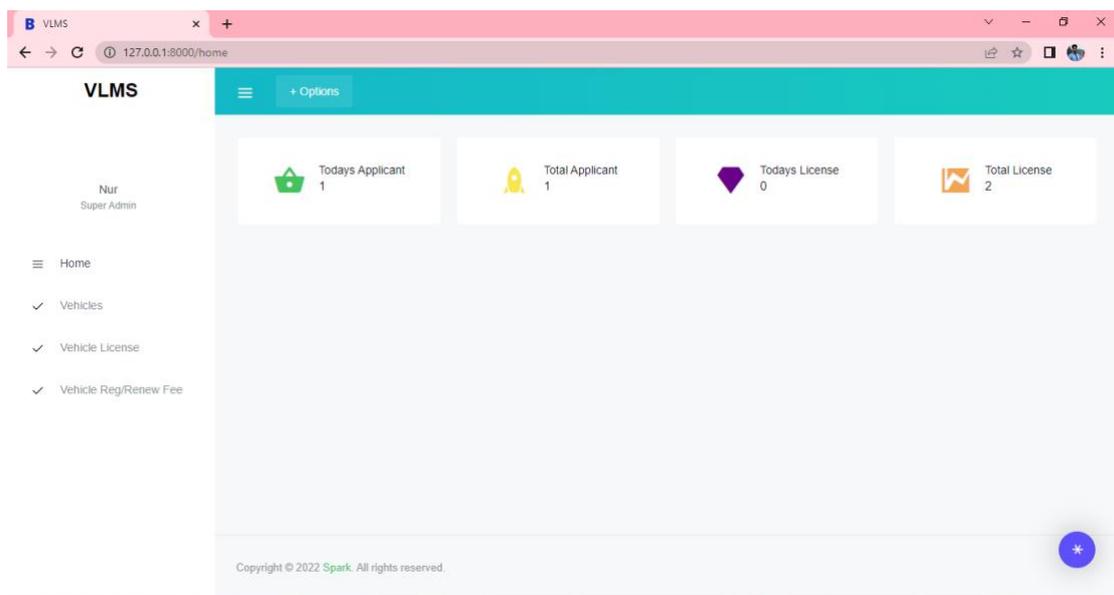
SIGN UP

Already have an account? [Login](#)

Figure 4.2 Registration Page

4.2.4 Home Page for Admin

Admins have super authorization for the website.



- ☰ Home
- ✓ Vehicles
- ✓ Vehicle License
- ✓ Vehicle Reg/Renew Fee

Figure 4.3 Home Page for Admin

4.2.5 Home Page for User

User home page is quite simple with fewer options only those what they need.

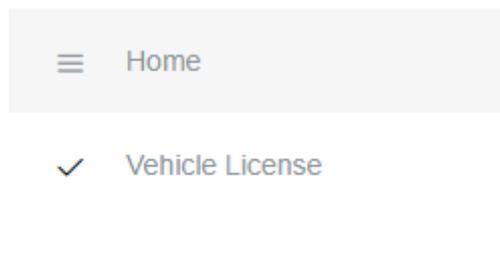
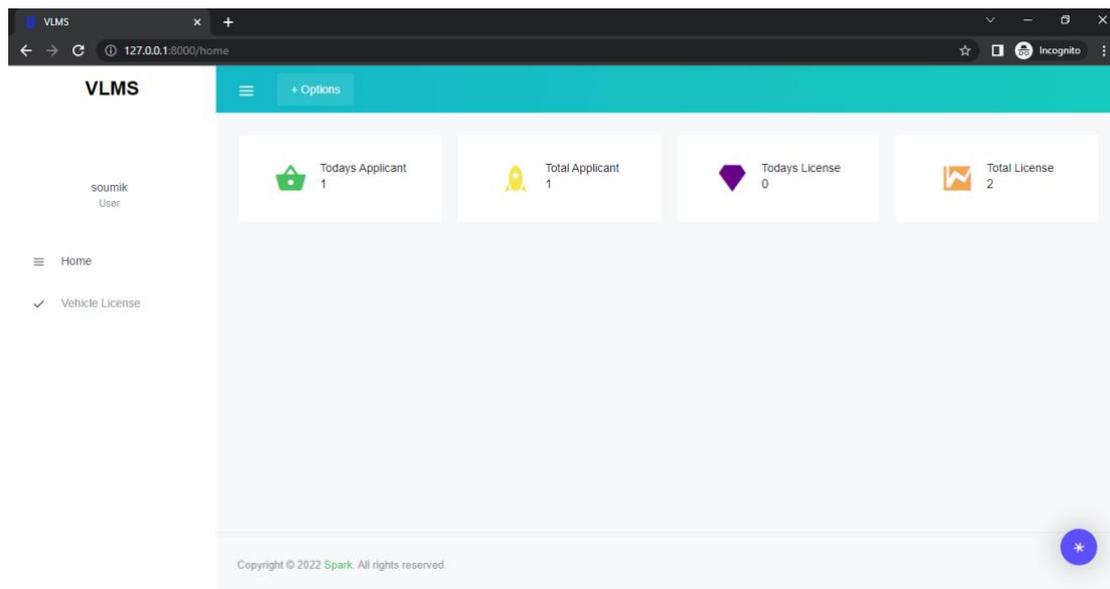


Figure 4.4 Home Page for User

4.2.6 Admin Add Vehicle

In this page only admin can register new vehicles.

The screenshot shows the 'Add Vehicle' form in the VLMS admin interface. The form includes the following fields:

- Vehicle Type: A dropdown menu with 'Two Wheeler' selected.
- Vehicle Brand: A text input field.
- Vehicle Model: A text input field.
- Vehicle Chassis Number: A text input field.
- Vehicle Engine Number: A text input field.
- Vehicle CC: A text input field.
- Importer: A text input field.
- Submit: A green button at the bottom right.

The left sidebar shows the user 'Nur Super Admin' and a navigation menu with options like Home, Vehicles, Add Vehicle, View Vehicle, Vehicle License, and Vehicle Reg/Renew Fee.

Figure 4.5 Admin Add Vehicles

4.2.7 Admin View Vehicles

This page shows the already registered vehicles.

The screenshot shows the 'View Vehicle' page in the VLMS admin interface. It features a 'Data Table' with the following columns: S/N, Vehicle Type, Vehicle Brand, Vehicle Model, Others, and Actions. The table contains two entries:

S/N	Vehicle Type	Vehicle Brand	Vehicle Model	Others	Actions
1	Two Wheeler	bajaj	d50	CC : 150 C No : 645454 En No : 54545k Date : 2022-08-14 13:06:18 Importer : jhight	<input type="checkbox"/>
2	Two Wheeler	Hero	hunk	CC : 125 C No : 54321123 En No : 12345678 Date : 2022-08-14 17:46:02 Importer : Acl motors	<input type="checkbox"/>

The page also includes a search bar, a 'Show 10 entries' dropdown, and pagination controls at the bottom.

Figure 4.6 Admin View Vehicles

4.2.8 Admin Applicant List

This page to see user license application list.

The screenshot shows the VLMS Admin Applicant List page. The page title is "Applicant List". The user is logged in as "Nur Super Admin". The page displays a table with one entry for a license application. The table has columns for S/N, License No, User Details, Vehicle Details, Status, and Actions. The entry has S/N 1, License No gghjh-KA-8201188450, and Status Processing. The user details are: Name: soumik, Father: hggh, Mother: ugyghg, NID: 3424566876, Phone: 01785858756, and Address: jgghgj.gghjh.hgghg - (hgghghf). The vehicle details are: Brand: bajaj, Model: d50, CC: 150, C No: 645454, and En No: 54545k. The page also shows a search bar, a "Show 10 entries" dropdown, and pagination controls.

S/N	License No	User Details	Vehicle Details	Status	Actions
1	gghjh-KA-8201188450	Name : soumik Father : hggh Mother : ugyghg NID : 3424566876 Phone : 01785858756 Address : jgghgj.gghjh.hgghg - (hgghghf)	Brand : bajaj Model : d50 CC : 150 C No : 645454 En No : 54545k	Processing	<input type="button" value="v"/>

Figure 4.7 Admin Applicant List

4.2.9 Admin Complete List

Admin can see here the approved applications for license.

The screenshot shows the VLMS Admin Complete List page. The page title is "Complete Applicant List". The user is logged in as "Nur Super Admin". The page displays a table with two entries for approved license applications. The table has columns for S/N, License No, User Details, Vehicle Details, Status, and Actions. The first entry has S/N 1, License No hgghf-KA-4554301260, and Status Approved. The user details are: Name: soumik, Father: hghf, Mother: jghgh, NID: 3424566876, Phone: 01785858756, and Address: hggh.hghgf.gghyghf - (hghf). The vehicle details are: Brand: bajaj, Model: d50, CC: 150, C No: 645454, and En No: 54545k. The second entry has S/N 2, License No Dhaka-KA-6871774892, and Status Approved. The user details are: Name: soumik, Father: xyz, Mother: yxz, NID: 3424566876, Phone: 01785858756, and Address: Dhaka,Dhaka,Mohammadpur - (opposite of state college). The vehicle details are: Brand: Hero, Model: hunk, CC: 125, C No: 54321123, and En No: 12345678. The page also shows a search bar, a "Show 10 entries" dropdown, and pagination controls.

S/N	License No	User Details	Vehicle Details	Status	Actions
1	hgghf-KA-4554301260	Name : soumik Father : hghf Mother : jghgh NID : 3424566876 Phone : 01785858756 Address : hggh.hghgf.gghyghf - (hghf)	Brand : bajaj Model : d50 CC : 150 C No : 645454 En No : 54545k	Approved	<input type="button" value="v"/>
2	Dhaka-KA-6871774892	Name : soumik Father : xyz Mother : yxz NID : 3424566876 Phone : 01785858756 Address : Dhaka,Dhaka,Mohammadpur - (opposite of state college)	Brand : Hero Model : hunk CC : 125 C No : 54321123 En No : 12345678	Approved	<input type="button" value="v"/>

Figure 4.8 Admin Complete List

4.2.10 Admin Registration Fee

Application fee needed for user is set by admin here and they can also see the previous fee list.

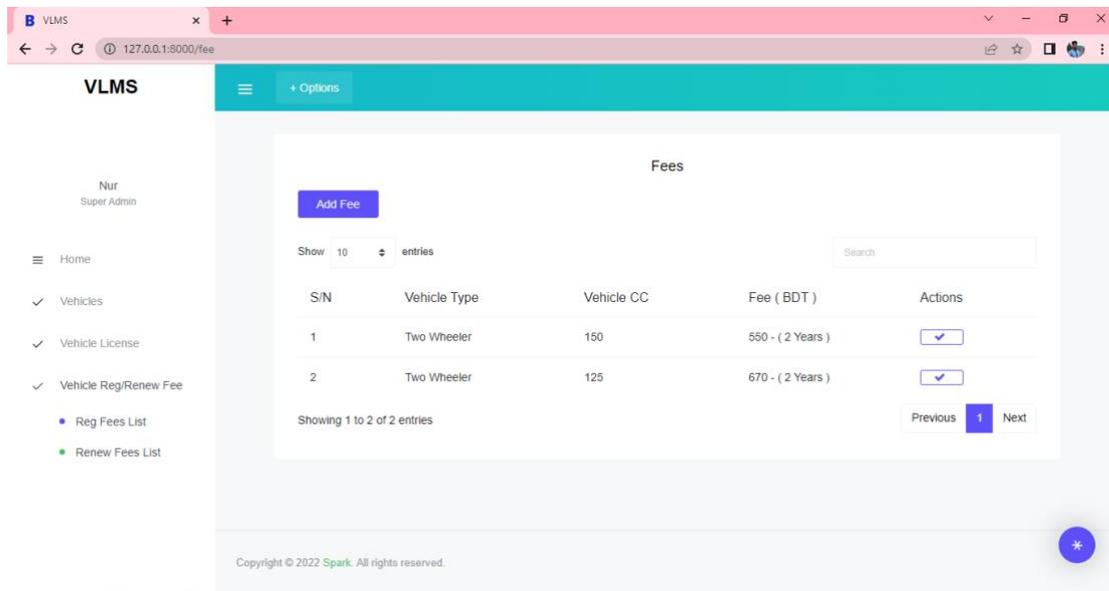


Figure 4.9 Admin Registration Fee

4.2.11 Admin Renew Fee

License renew fee needed for user is set by admin here and they can also see the previous renew fee list.

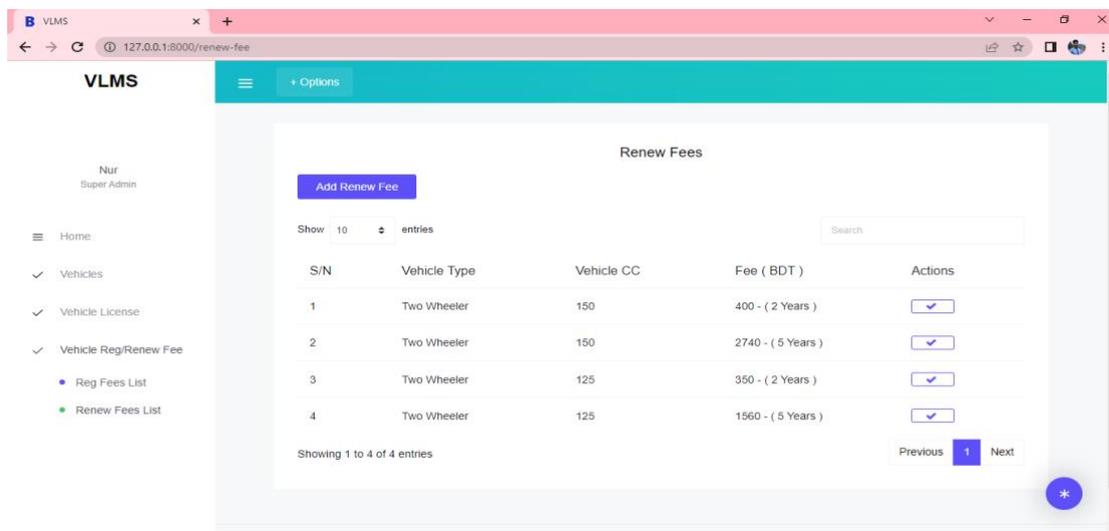


Figure 4.10 Admin Renew Fee

4.2.12 Admin Logout

By clicking on this button, admin can logout from the account.

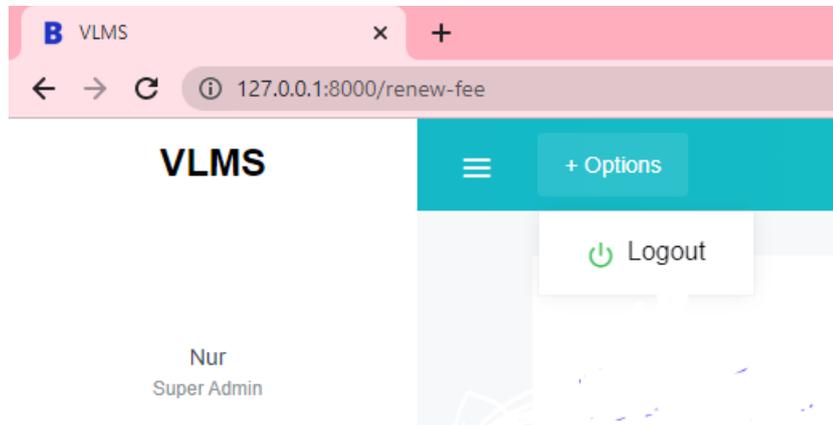
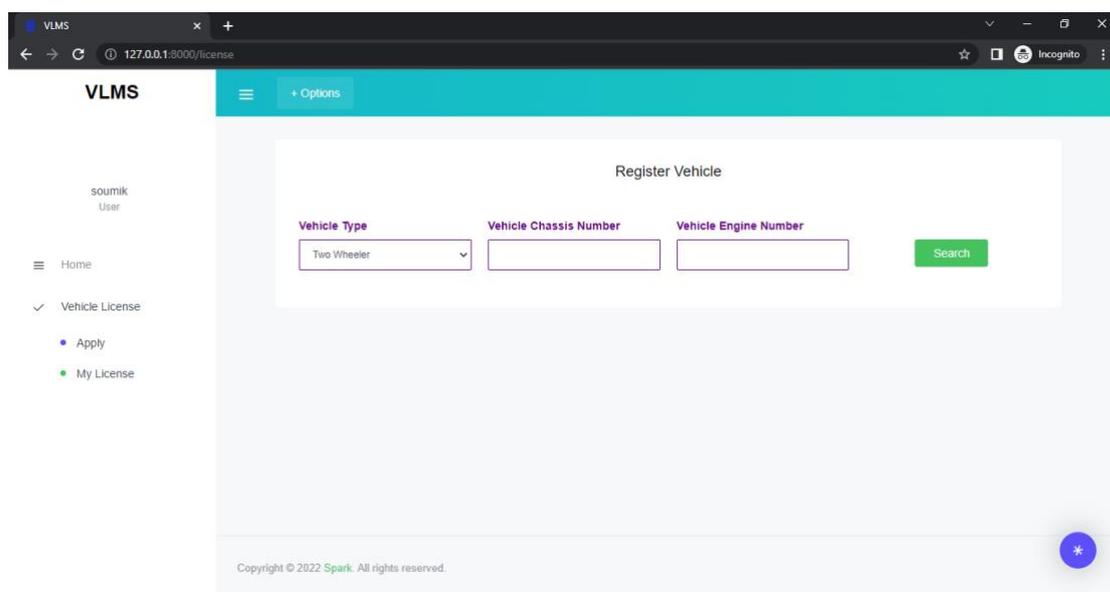


Figure 4.11 Admin Logout

4.2.13 User License Apply

When a user tries to apply for a new license, they have to search their vehicle first. They have to put their car's chassis number and engine number.



If the vehicle is registered already in the website, then this form will appear where user need to fill-up and submit the application.

Figure 4.12 User License Apply

4.2.14 User My License

User can see their application and go for payment.

S/N	License No	User Details	Vehicle Details	Status	Actions
1	hghgf-KA-4554301260 2019-08-16 To 2023-08-16	Name : soumik Father : hghf Mother : jghgh NID : 3424566876 Phone : 01785858756 Address : hghg,hghgf,gyghygf - (hghf)	Brand : bajaj Model : d50 CC : 150 C No : 645454 En No : 54549k	Approved	Paid

Make Payment With SSLCommerz

Your Payment Details

- Registration Fee
10000
- Tax
0
- Total (BDT) 10000

[Continue to checkout](#)

© 2019 Company Name

- [Privacy](#)
- [Terms](#)
- [Support](#)

Figure 4.13 User My License

4.2.15 Back-End Design

The Back-End of a website is its most important component. It serves as the framework for the entire system. The server side of things is referred to as the "back-end." Scripting languages or server-side languages, database management, protection, authentication, authorization, data validation, data backups, and other elements are only a few of the backends' many features.

The Laravel framework [12] and Raw-PHP [13] were used to build the website's back end. The following is a list of the main causes. Hypertext Preprocessor, or PHP, is a back-end programming language that offers a ton of free-to-use features. PHP can only be combined with HTML. PHP is an advanced open-source database server built on a data store that can support several concurrent web servers. MySQL is an open-source scripting language that would be used to create web-based applications [14]. Together, PHP and MySQL programmers might produce a very dependable and adaptable Web service.

4.2.16 Database

To build the system's database, we used MySQL. A database is just a collection of data that has been arranged. Additionally, you may adapt the knowledge to better meet your own requirements. Because MySQL combined them all, it is known as an RDBMS.

The most popular open-source relational SQL database management system is called MySQL. Popular relational database management system (RDBMS) MySQL is used to create web-based software programs. A relational database structures data into one or more data tables where different data kinds can be linked to one another. Programmers may create, modify, and retrieve data from relational databases using the programming language SQL, as well as control user access. In addition to relational databases and SQL, an RDBMS like MySQL handles users, permits network access, and simplifies database integrity testing and backup creation. It also interacts with an operating system to implement a relational database in a computer's storage system.

Table	Action	Rows	Type	Collation	Size	Overhead
failed_jobs	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K B	-
fees	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16.0 K B	-
licenses	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16.0 K B	-
migrations	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_unicode_ci	16.0 K B	-
password_resets	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K B	-
personal_access_tokens	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	48.0 K B	-
renew_fees	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16.0 K B	-
users	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	80.0 K B	-
vehicles	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16.0 K B	-
9 tables	Sum	14	InnoDB	utf8mb4_general_ci	272.0 K B	0 B

Figure 4.14: Database Tables

id	uuid	connection	queue	payload	exception	failed_at
----	------	------------	-------	---------	-----------	-----------

Query results operations

Create view

Bookmark this SQL query

Label: Let every user access

Bookmark this SQL query

Figure 4.15: Database Failed Jobs Table

id	fvehicle_type	fvehicle_cc	duration	fee	created_at	updated_at
1	Two Wheeler	500		10000	2022-08-14 09:24:40	NULL
2						

Figure 4.16: Database Fees Table

id	user_id	registration_number	lvehicle_type	lvehicle_chassis_number	lvehicle_engine_number	lvehicle_brand	lvehicle_model	lvehicle_cc
1	2	gggdf-KA-5088321815	Two Wheeler	123456	654321	Toyota	Corolla	500

Figure 4.17: Database Licenses Table

id	migration	batch
1	2014_10_12_000000_create_users_table	1
2	2014_10_12_100000_create_password_resets_table	1
3	2019_08_19_000000_create_failed_jobs_table	1
4	2019_12_14_000001_create_personal_access_tokens_ta...	1
5	2022_06_18_083745_create_vehicles_table	1
6	2022_06_18_203915_create_licenses_table	1
7	2022_06_19_105727_create_fees_table	1
8	2022_06_20_095312_create_renew_fees_table	1

Figure 4.18: Database Migrations Table

email	token	created_at

Figure 4.19: Database Password Reset Table

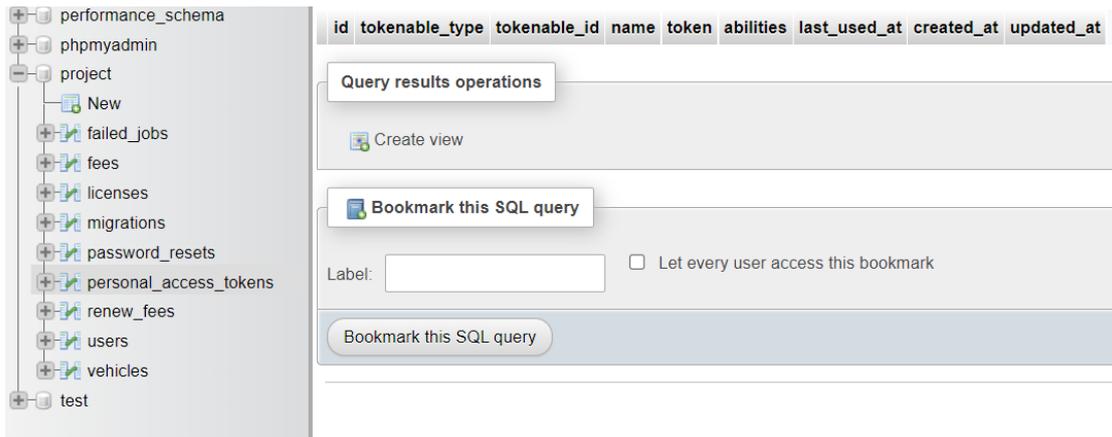


Figure 4.20: Database Personal Access Tokens Table

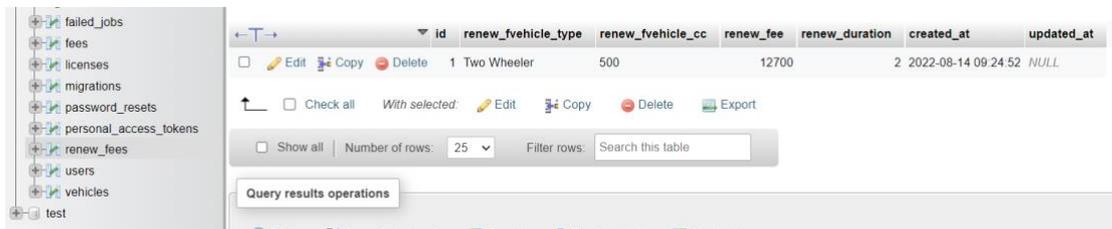


Figure 4.21: Database Renew fees Table

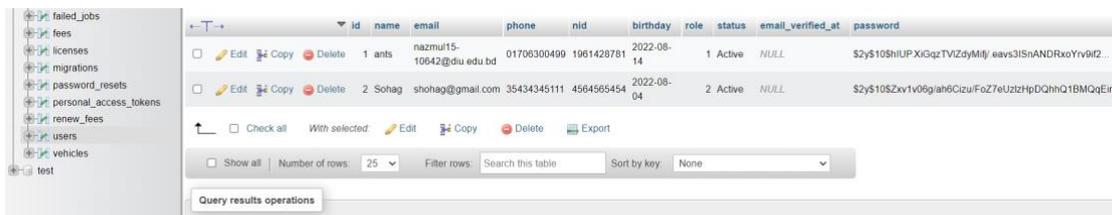


Figure 4.22: Database Users Table

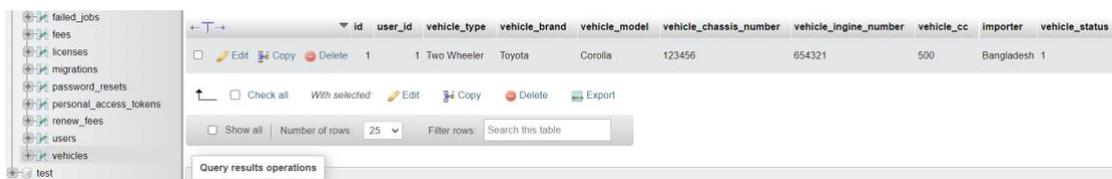


Figure 4.23: Database Vehicles Table

CHAPTER 5

CONCLUSION AND FUTURE VISION

5.1 Introduction

Everyone needs a driving license in order to operate a motor vehicle in a public area. Before taking the driving exam, a person must have a learner's permit in order to receive a driving license. The licensing authority must receive the learner's license application in the appropriate format, together with the required documents and payments. The candidate must be able to read and write either Bengali or English and not be a foreign national. The licensing authority must receive an application in the approved form from the successful driving test applicant, together with the necessary paperwork & costs. Every development project has a long-term vision and strategy. The future characteristics and plans for this project are discussed in this chapter.

5.2 Future Scope

Nothing is constant in our world. We must modify our strategies as needed since necessity changes throughout time. We'll be developing a fresh, intriguing feature for our system.

- Improving of payment gateway and convert mail system to SMS.
- Live our site and app for real life experience.
- Develop the app to a better one.
- We'll use firebase to create the database of the app.
- A suggestion or recommendation system will be created, allowing users to get a variety of options based on their needs.
- We must add a blog site, it would be crazy.
- Ensure the security system more strictly.
- We'll include an area for client feedback.
- Increase the availability of our website and app.
- We will add special alert posters to avoid road accidents.
- It will be more trustworthy.
- It will be able to save more time and cost.

- We will add exciting images that will make the site look more professional.
- We will incorporate blockchain technology with license system, which will be a beneficial mix because this technology can bring more security and transparency.

5.3 Conclusion

The Vehicle License Management System offers online license applications, permanent license issuance, and tax. All of the organization's users have praised the initiative. Given that it makes use of the GUI offered in the user dialog, it is simple to utilize. Screens that are easy to use are offered. Software utilization reduces work while increasing efficiency. It has been successfully used as a project management tool. People are more likely to apply for and carry their driver's license when it is easy to obtain one. Through this procedure, many unintentional occurrences can be averted. Also, in manual system, the corruption we used to see is no more as they can pay their fees through online and it is ensured that individuals don't need to pay any extra money. At last, user's privacy and security are being ensured using authentication system. The website is marked as beneficial by all the users.

CHAPTER 6

Impact on Society, Environment and Sustainability

6.1 Introduction

Once a project is finished, its impact on society must be investigated and evaluated. This chapter's three parts describe the effects of the Vehicle License Management System project. This project will have a tremendous impact on humanity, as discussed in the section on how it will affect society or the state. Then there are ethical issues to think about. To understand how this project can benefit patients and the medical industry of a country, the ethical component of the study was carefully evaluated. The project's long-term viability was also taken into account. It is discussed how this concept might develop in the future and benefit more people.

6.2 Impact on Society

The society has been significantly impacted by this initiative. Our project is an online-based system for car licenses that has the power to greatly influence society. We have recently noticed that, despite our money and power, we are always bound and unable to leave, despite our wish to do so. Because of that, we were unable to do our regular tasks that involved unforeseen trips. One of the main factors influencing the urge to leave the house is the accessibility of essentials. While everyone may make any request at any moment without prior notice or declaration, not every time our demands can be met. Sometimes we anticipate the physical work we used to do to be done online so we don't have to leave our familiar surroundings. Our projects allow users to apply for a car license while sitting on their sofa, using a phone or computer to visit our website, and doing so quickly and conveniently without having to leave the house. Without taking on unsafe situations or dealing with any other unfavorable situations, they can earn their complex car licenses that they desire. When obtaining for a driver's license in the past, people had to deal with numerous unethical situations and a drawn-out procedure. People felt helpless in this situation because of concerns including the money trap, nepotism, and time complexity. However, the most exciting aspect of our website is that, in the event that there is a lack of physical cash but the user has a bank

account, they can easily complete any type of online payment transaction for any amount. It's not just for a difficult situation; it's also for your habit of making all of your purchases online without really using cash or coins made of metal or paper money. Paper money and metal coins both need to be produced using natural resources. There is a chance of being scammed because physical money can be fraudulently reproduced and because this cannot always be verified. However, if it is used for online transactions, it may not have a physical existence but still exists in a virtual setting. Physical money can also be misplaced, stolen, or destroyed. Our goal is to give our customers a sense of security regarding theft, money loss, and destruction as well as a dependable, safe, and secure payment system that is legally protected. Without having to go or interact with others, people will be encouraged to obtain a driver's license, increasing their risk of contracting a virus or being a victim of fraud or theft. Additionally, they won't have to endure clogged roads or lose precious time waiting for their destination to appear.

6.3 Impact on Environment

Government is putting a lot of effort into creating inexpensive items as a result of the widespread and quick growth of online services. Additionally, they are putting a lot of effort into creating productive procedures and processes that optimize output with the least amount of work and expenditure. They have no idea of the damaging effects on the environment and are therefore unconcerned. We are all aware that practically the entire world is now connected to the Internet. Additionally, public services successfully communicate, coordinate, and convert manual activities to digital. Nevertheless, certain undesirable consequences, like wind, can happen. damaging radiation, pollution, and so forth. Primary effects are primarily brought on by IT infrastructures like terminals, mobile devices, and network infrastructures; secondary effects are brought on by applications like changes to warehousing, mass transit, or wrapping; and tertiary effects are primarily brought on by consumption patterns and rebound effects. Online transactions minimize the use of actual currency, which also decreases the printing of currency. More trees will survive in the struggle for existence the slower the rate at which paper currency is produced. Along with trees, environmental habitats are used to make metal. Regardless of whether they're formed of metal or paper money, coins are made of high-quality metals, and producing them is expensive since it requires a lot of

trees to be felled and the exploitation of natural metal resources. Customers can utilize an expanding range of online payment methods thanks to our initiative. Another cause of deforestation will be eliminated as a result of the decreased demand for paper money and metallic coins, and the quantity of natural resources utilized to create coinage will be put to better use. Coins made of metal and paper serve as a breeding ground for potentially fatal viral germs. People won't physically come into touch with money thanks to our project, which lowers the danger of virus. The ecosystem will be significantly impacted by becoming disease-free.

6.4 Ethical Aspects

Several ethical issues to think about for my final project

Saving time: With the help of this project's online payment system, paying car licensing fees locally or elsewhere will no longer require a trip to the bank. Nowadays, traffic is a big problem, and many squander hours waiting in it without moving around as much as they should. To get a license, people don't have to squander their time. Simply apply online by supplying the necessary details.

Saving money: Because they do not need to physically go anywhere to obtain a driving license, people will not travel. The cost of travel increases along with the price of fuel. Travel is not free. The money that would have been spent on travel can be saved by applicants who utilize our website rather than visiting a physical location.

Risk-free transaction: The general people is very concerned about financial fraud. Both the government and the applicants are wary of being taken advantage of when a large transaction is involved. If people pay with real money or metal coins, it is possible. Customers are not obliged to provide us actual cash that may be counterfeit in order to make transactions through our website. They will employ an online payment system for fees that is linked to reputable security firms and hence challenging to forge. As a consequence, the beneficiary may be sure that the transaction was real and genuine.

Less reliance on natural resources: Humans must produce paper money and metal coins, which require a variety of resources, including the selection of materials, the building of a factory for production, workers, personnel, current design trends, anti-fake

systems, authentication, dependability, anti-cloning, natural materials, and the collection of materials. These items cost a lot of money to produce and need a lot of ingredients. The money of the country is not simply any currency. As a result, it needs thorough authenticity, trustworthiness, and widespread awareness. Because paper money is composed of tree fiber, we must remove forests to manufacture it. This metal coin requires a special sort of metal in addition to a combination of metals to avoid cloning and counterfeiting. None of the elements described above will be necessary if we incorporate more and more online fee payment methods into our project. Natural resources will thus prevail in the battle for survival.

6.5 Sustainability Plan

We greatly respect the never-ending race for progress. We will be introducing a lot more items that are being thought about in the future. Customer feedback: At the moment, we do not have an area where visitors may rate and comment on our website, but we want to introduce one in the future. Where the respectable users may contribute their ratings of 1 to 5 stars and offer their reviews of the license system, our services, and their personal experiences. This will be displayed to everyone who visits our website, not just the reviewer. It will provide information about our services to others. Improve user interface: A user will find a website easier to use if it is more appealing. In the future, we'll improve the website's usability to encourage visitors to apply for a license and drive legally. Smartphone App: In the coming years, we intend to turn our idea into a mobile Application that will be accessible on all versions of androids and simple to use.

APPENDIX

UX- User Experience

UI- User Interface

JS- JavaScript

HTML- Hypertext Markup Language

CSS- Cascading Style Sheets

PHP- Hypertext Preprocessor

MySQL- My Structured Query Language

SMS- Short Message Service

REFERENCES

- [1] Learn about BRTA, available at << <https://bsp.brta.gov.bd/>>>, last accessed on 04-08-2022 at 9:00 PM.
- [2] Learn about Driving License Verification, available at << <https://cgbdsydney.gov.bd/consular-services/driving-license-verification/#>>>, last accessed on 04-08-2022 at 9:30 PM.
- [3] Learn about Car Dokan, available at << <https://cardokan.com/>>>, last accessed on 05-08-2022 at 7:00 PM.
- [4] Learn about bddti.com, available at << <https://bddti.com/about-driving-school-in-dhaka/>>>, last accessed on 04-08-2022 at 7:40 PM.
- [5] Learn about glyphicons.com, available at << glyphicons.com/>>, last accessed on 07-08-2022 at 9:00 PM.
- [6] Learn about fontawesome.com, available at << fontawesome.com/>>, last accessed on 07-08-2022 at 9:00 PM.
- [7] Learn about getbootstrap.com, available at << getbootstrap.com/>>, last accessed on 07-08-2022 at 9:00 PM.
- [8] Learn about node.js, available at << <https://nodejs.org/en/>>>, last accessed on 07-08-2022 at 9:00 PM.
- [9] Learn about learn-html.org, available at << <https://learn-html.org/>>>, last accessed on 05-08-2022 at 8:25 PM.
- [10] Learn about css, available at <<<https://www.w3schools.com/css/>>>, last accessed on 06-08-2022 at 8:55 PM.
- [11] Learn about learnjavascript.online, available at << learnjavascript.online/>>, last accessed on 07-08-2022 at 9:00 PM.
- [12] Learn about Laravel, available at << <https://laravel.com/>>>, last accessed on 07-08-2022 at 9:00 PM.
- [13] Learn about learn-php.org, available at << learn-php.org/>>, last accessed on 07-08-2022 at 9:00 PM.
- [14] Learn about mysqltutorial.org, available at << mysqltutorial.org/>>, last accessed on 07-08-2022 at 9:00 PM.

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