A Report on

“Dinajpur Driving School”

Course Title: System Analysis and Design Sessional

Course Code: CSE 420

Department: Computer Science and Engineering

Level -4 semester -I

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CERTIFICATE

This is certifying that Md Iftekhar Hossain Tushar, Azizur Rahman Maruf submit this project work entitled **"Dinajpur Driving School**" is carried out in partial fulfillment for the award of the degree of bachelor of science (engineering) in Computer Science and Engineering. This is a record of their own work carried out by them under of supervision and guidance.

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Associate Professor

Dept. of Computer Science and Engineering.

Hajee Mohammad Danesh Science & Technology University, Dinajpur

Acknowledgment

We would like to express our thanks of gratitude to Hasi Saha, Associate professor, department of Computer Science and Engineering who gave us a golden opportunity to do this project and also provided support in completing in our project. His heartiest & kind Cooperation during our project work makes the dream real & we succeed to complete our project. While we were preparing this project file, various information that we found helped us in chapter of profile adding and we are glad that we were able to complete this project and understand many things. Through preparation of project was an immense learning experience and we included many personal qualities during this process like responsibility, punctuality, confidence and others. We would like to thank to our supervisor who supported us all the time, cleared our doubts and to our parents who also played a big role in finalization of our project file. We are taking this opportunity to acknowledge their support and we wish that they keep supporting us like this in the future. A project is a bridge between theoretical and practical learning and with this thinking we worked on the project and made it successful due to timely support and efforts of all who helped us. Once again, we would like to thank our classmates and friends also for their encouragement and help in designing and making our project creative. We are in debt of all these. Only because of them we were able to create our project and make it good and enjoyable experience.

Abstract

“Dinajpur Driving School” is a pioneering initiative committed to promoting road safety and cultivating responsible driving behavior in the region. This abstract provides an overview of the comprehensive approach adopted by the driving school to impart essential skills, knowledge, and attitudes necessary for safe and efficient driving.

The driving school employs state-of-the-art facilities and modern teaching methodologies to deliver a structured curriculum covering traffic rules, defensive driving techniques, and vehicle maintenance. Through a combination of theoretical instruction, practical training, and simulation exercises, students gain a holistic understanding of road dynamics and are equipped with the skills required to navigate diverse traffic scenarios

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CHAPTER 1

INTRODUCTION OF PROJECT

1.1 Summary

Literature survey:

For Literature Survey, we have visited website related to our system. We have also visited some website for learning methods related to html, css, JavaScript, php, and MySQL language for DBMS.

System Analysis:

In System analysis part, we have studied about requirement specification of our project. There is included functional and non -functional requirements of our project. We have also designed Software requirement specification called SRS for our system.

Testing parts are:

1.Unit testing

2.Fnctional testing

3.Non-Functional testing

4.compatability testing.

5.performance testing.

6.Accessibility testing.

1.2 Introduction of problem

The modern world is characterized by an increasing reliance on automobiles for daily transportation needs. As the number of vehicles on the road continues to rise, the demand for efficient and effective driving education programs becomes imperative. To address this need, the Driving School Management System is proposed as a comprehensive solution to streamline and enhance the operations of driving schools.

1.3 Problem statement and explanation

1.3.1 problem statement

Traditional driving schools often face challenges in managing their day-to-day activities efficiently. Paper-based systems and manual processes can lead to errors, delays, and a lack of transparency in the management of student records, scheduling, instructor assignments, and overall administration. Additionally, there is a growing need for driving schools to adapt to technological advancements to provide a more interactive and engaging learning experience for students.

1.3.2 Project Description

The Driving School Management System is a comprehensive software solution designed to streamline the operations of driving schools, providing a user-friendly platform for efficient management of administrative tasks, scheduling, student records, and communication. This project aims to enhance the overall learning experience for students and simplify the administrative processes for driving school staff.

1.4 Project useful to Society

Efficient Administration:

The system streamlines administrative tasks, reducing the workload on staff involved in managing student records, scheduling, and communication.

Automation of routine administrative processes minimizes errors, ensuring accurate and up-to-date information.

Enhanced Scheduling:

Improved scheduling functionality allows for better coordination of driving lessons, theory classes, and instructor availability.

Real-time visibility into schedules helps prevent conflicts and ensures a smooth flow of activities.

Improved Communication:

The system facilitates seamless communication between students, instructors, and administrative staff.

Automated notifications and alerts keep all stakeholders informed about upcoming lessons, changes in schedules, and other important updates.

1.5 Technologies Requirements

- Personal Computer with a operating system.
- HTML, JavaScript, CSS.
- Browsers—Google chrome, safari, Firefox, Internet Explorer.
- XAMPP.
- php

1.6 Background theory

1. Here in first page will be home page to introduce our project motive.
2. Next will be gallery section here we can see all the image of driving.
3. In about us section here people will know about our motive and what are we doing and how are we doing all the work.
4. There will be an Apply section and in it we have three parts as bike, car and heavy vehicle.
5. In contact section we have given information to contact us mail and phone number.
6. Lastly we have log in option and here we have two option one for user log in and another for authority.

CHAPTER 2

LITERATURE REVIEW

For this we have study course material of html, css, JavaScript, php and programming language. And we have visited some of the driving school and gain some of knowledge and try to implement a better solution for us propose system we have visited feeding

Raiganj Motor Training School, Taraknath Motor Training School, Taraknath Motor Training School

CHAPTER 3
SYSTEM ANALYSIS

3.1 Introduction

3.1.1 Purpose

The purpose of this document is to provide the reader with general, background information about the software "DINAJPUR DRIVING SCHOOL" system.

3.1.2 Scope

This document is intended for all the users to understand the usage and maintenance of the software who will know the basic knowledge of computer.

3.1.3 Documentation Conventions

Throughput this documentation, the following conventions have been used:

- Fonts: Times new Roman
- Size 16 for main heading
- Size 14 for sub heading
- Size 12 for the rest of the document

3.2 OVERALL DESCRIPTION

3.2.1 Product Perspective

The Driving School, from a product perspective, serves as a comprehensive software solution designed to meet the specific needs and challenges faced by driving schools. Here's a detailed overview of the product perspective:

3.2.2 Product Function

Home section

About us section

Program section

Apply section

Authority log in

User log in

3.2.3 Constraint, Assumption and Dependencies

XAMPP is simply a local host or server that is used to test clients or websites before publishing them to a remote web server. The XAMPP server software on a local computer provides an appropriate environment for testing MYSQL, PHP, Apache, and Perl projects. So we have used XAMPP for our project purpose and for front end we have used html, css, javascript.

3.3 Special Requirement

3.3.1 User Interface

Home section, about us section, Program section, apply section, Contact section, log in section all this section will be viewed in user interface.

3.3.2 Hardware Interface

Personal computer for user to view.

3.3.3 Software Interface

Any windows-based operation system, My SQL server, XAMPP.

3.4 Functional Requirement

3.5 Other non-functional Requirement

- Scalability
- Reliability
- Regulatory
- Maintainability
- Serviceability
- Utility
- Security
- Data integrity
- Capacity
- Availability
- Usability
- Interoperability
- Environmental

CHAPTER 4
SYSTEM DESIGN

4.1 System Flow Chart Diagram

The system flow diagram is one of the graphical representations of the flow of data in a system in software engineering. The diagram consists of several steps that identify where the input is coming to the system and output going out of the system.

4.1.1 Authority Flow

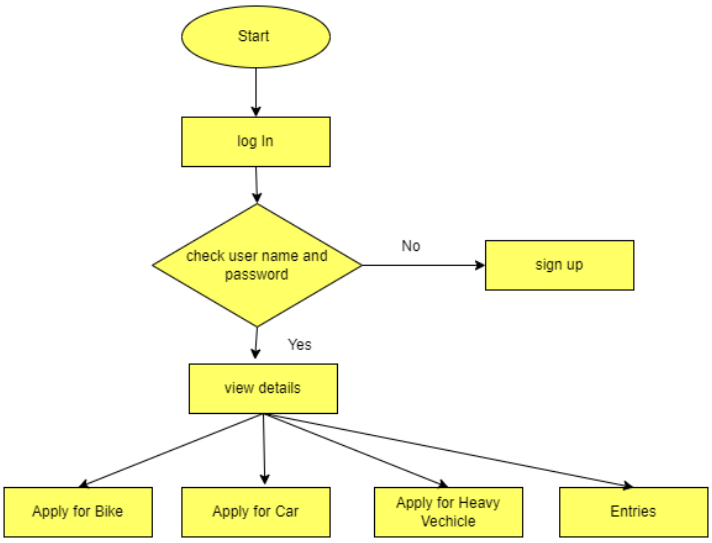


Figure: Authority flow diagram

4.1.2 System Flow for User

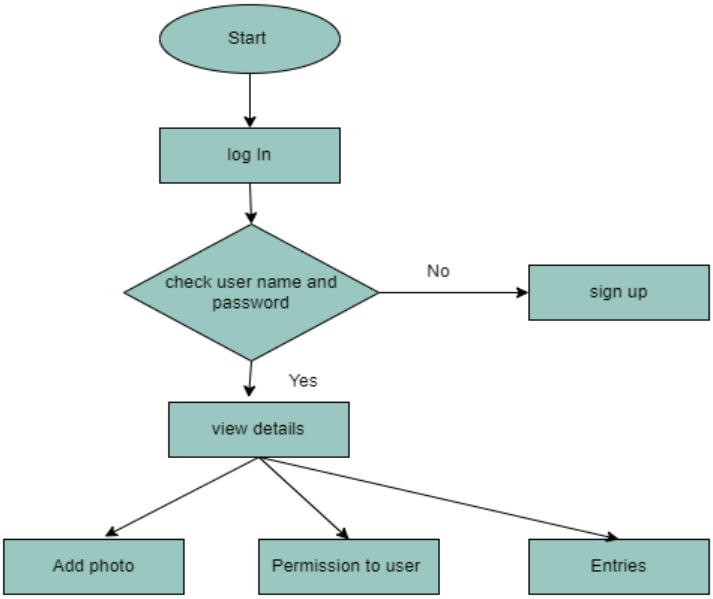


Figure: User flow diagram

4.2 UML Diagram

Unified Modeling Language (UML) combines techniques from data modeling (entity relationship diagram) and component modeling. It can be used with all processes, throughout the software development life cycle, and across different implementation technologies

4.2.1 Use case Diagram

In UML, use-case diagrams model the behavior of a system and help to capture the requirements of the system.
Use-case diagrams describe the high-level functions and scope of a system. These diagrams also identify the interactions between the system and its actors. The use cases and actors in use-case diagrams describe what the system does and how the actors use it, but not how the system operates internally.

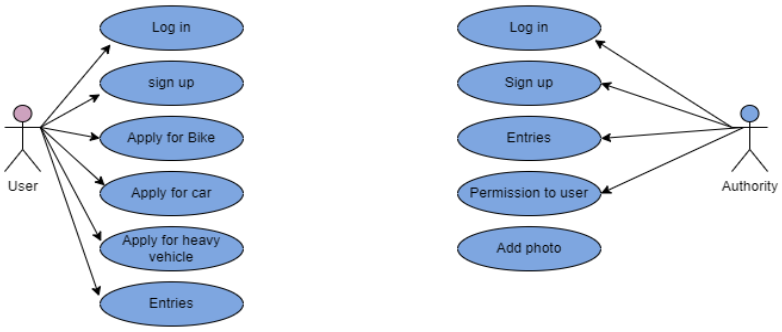


Figure: Use case diagram

4.2.3 Process Diagram

A Process Flow Diagram (PFD) is a type of flowchart that illustrates the relationships between major components at an industrial plant. It's most often used in chemical engineering and process engineering, though its concepts are sometimes applied to other processes as well. It’s used to document a process, improve a process or model a new one. Depending on its use and content, it may also be called a Process Flow Chart, Flowsheet, Block Flow Diagram, Schematic Flow Diagram, Macro Flowchart, Top-down Flowchart, Piping and Instrument Diagram, System Flow Diagram or System Diagram.

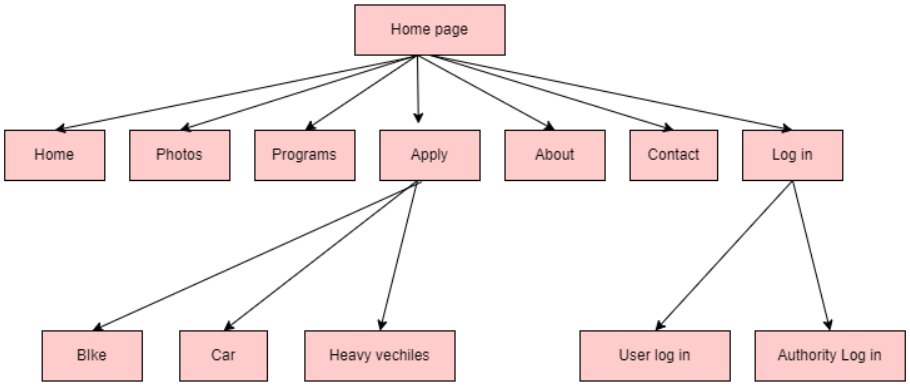


Figure: Process diagram

4.2.4 Activity Diagram:

Activity diagram represent the dynamics of the system. It focuses on representing various activities or chunk of processing and their sequence of activities Activity diagram are used to show the work flow of a system.

Activity for user:

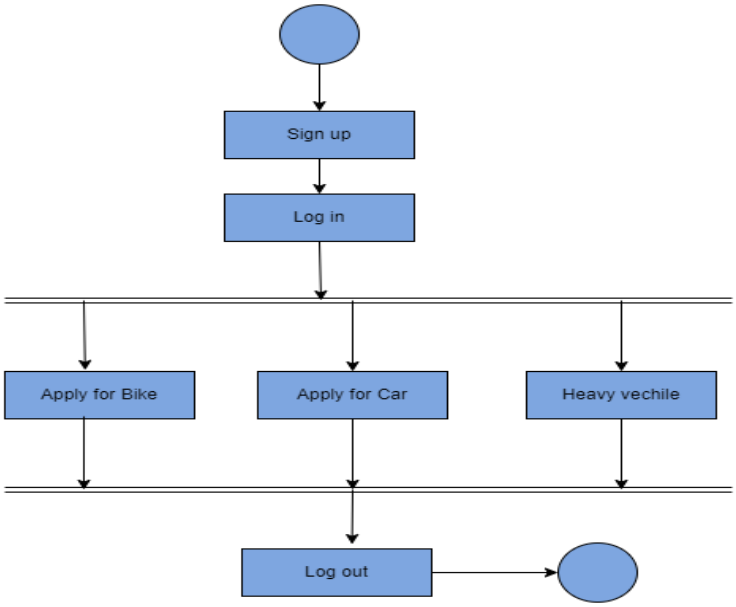


Figure: User activity diagram

Activity for Authority:

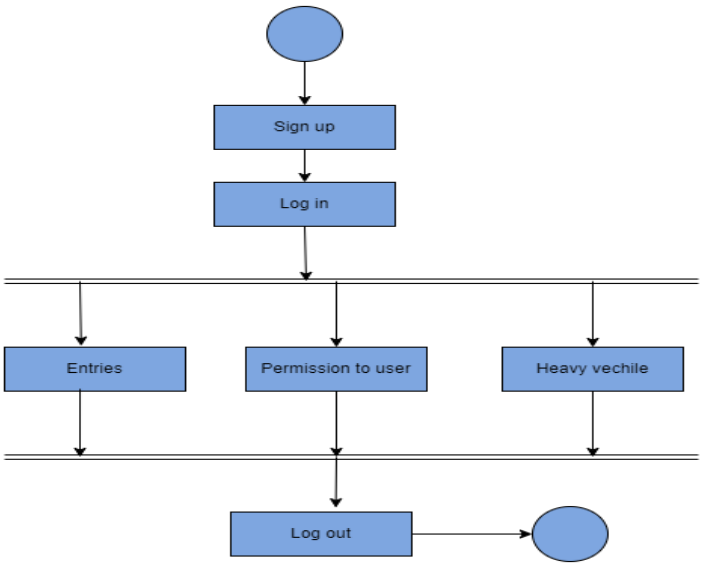


Figure: Authority activity diagram

4.3.1 E-R Diagram

An entity-relationship model (ER model) is a data model for describing the data or information aspects of a business domain or its process requirements, in an abstract way that lends itself to ultimately being implemented in a database such as a relational database. The main components of ER models are entities(things) and the relationships that can exist among them, and database.

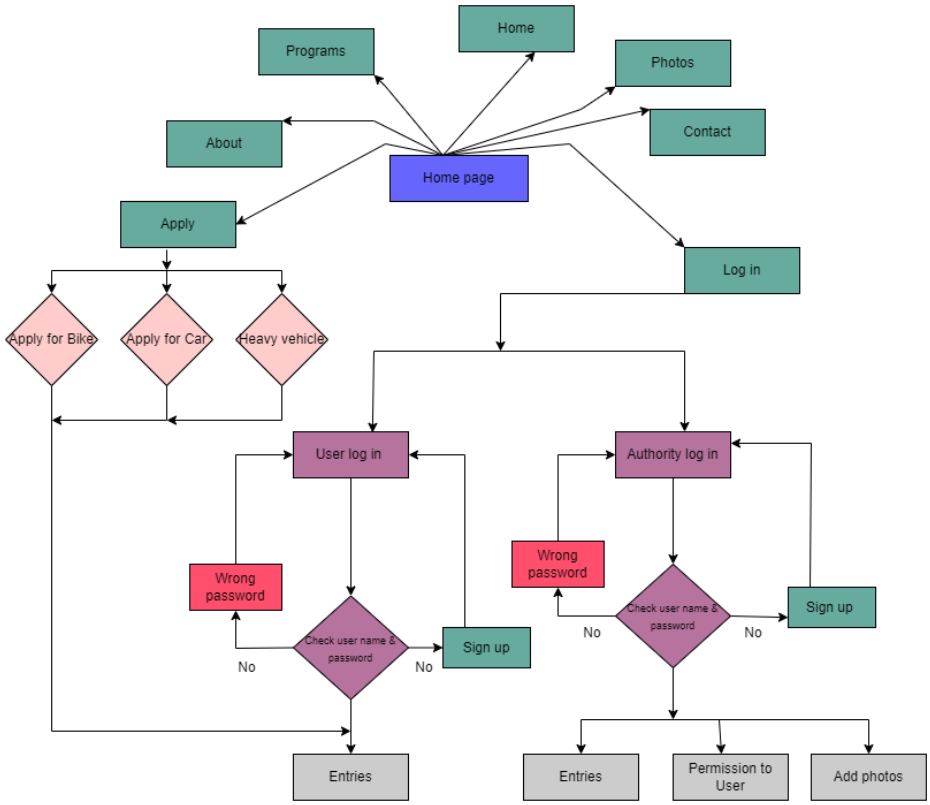
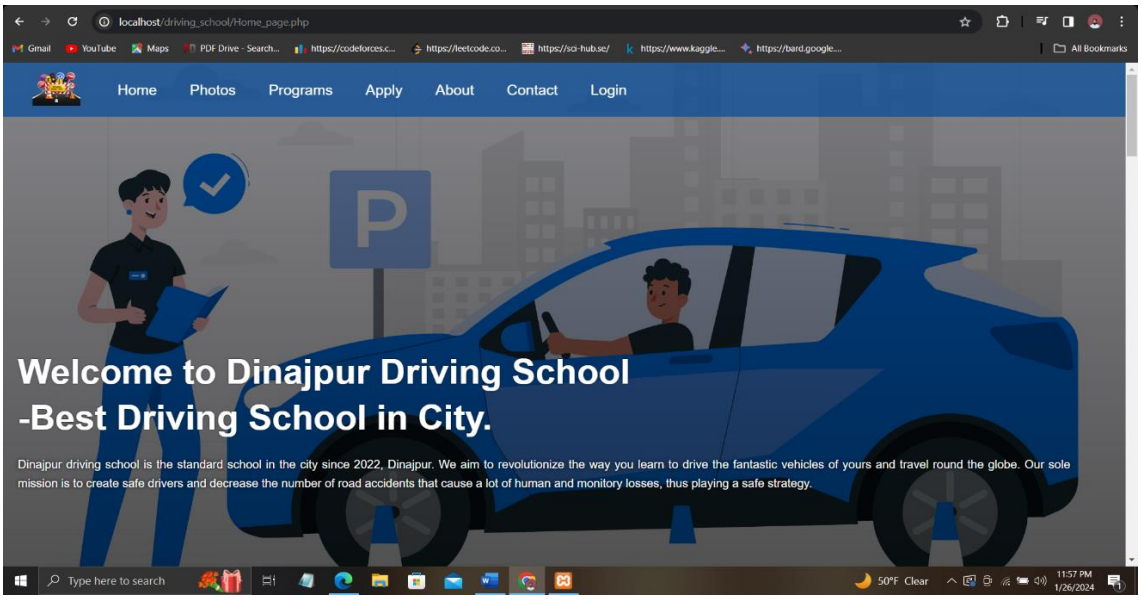


Figure: E-R diagram

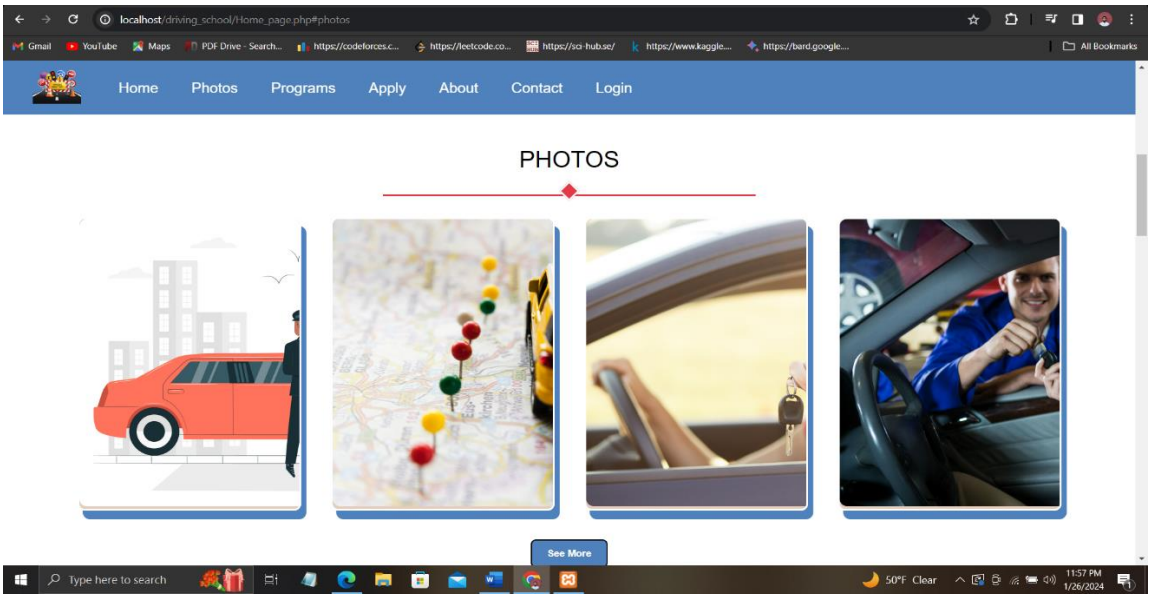
CHAPTER 5

IMPLEMENTATION

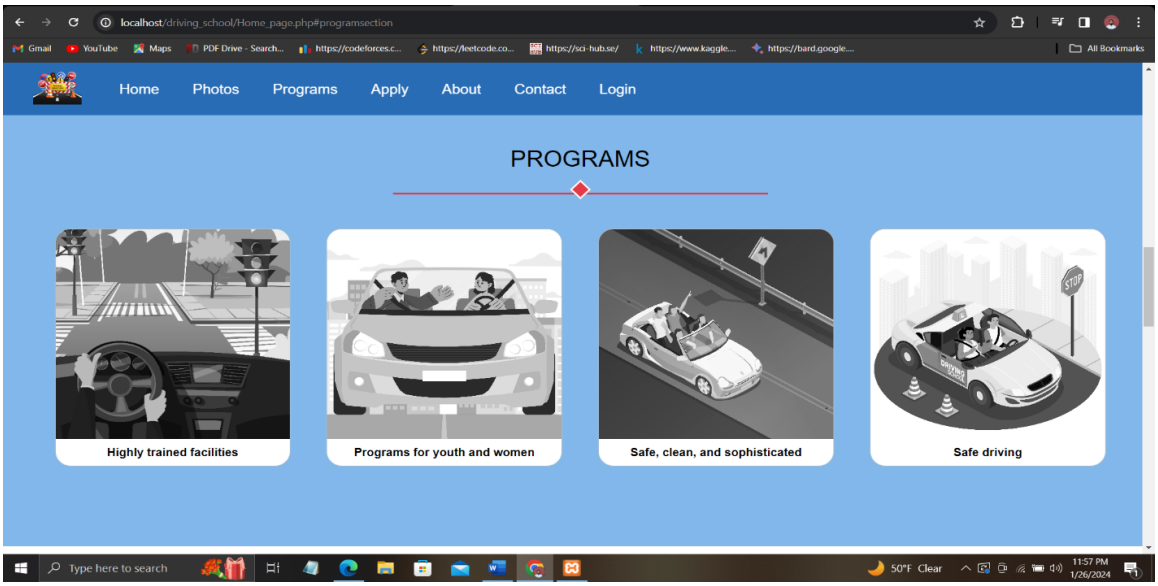
It is the Home page of our project:



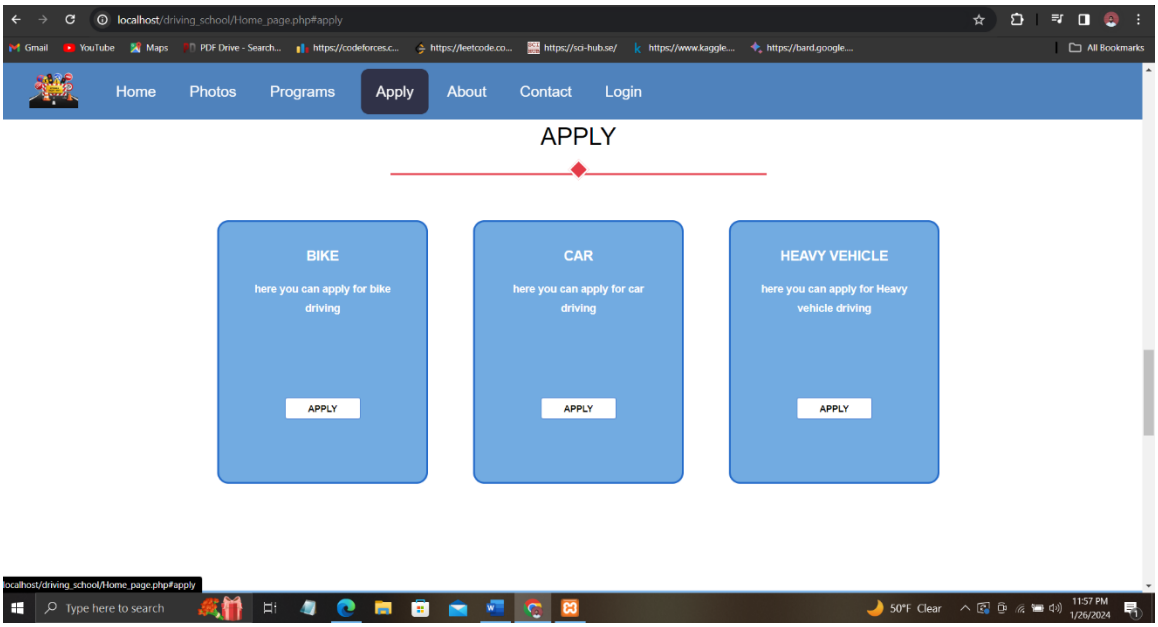
It is the photos section here we will see the related photos of our project:



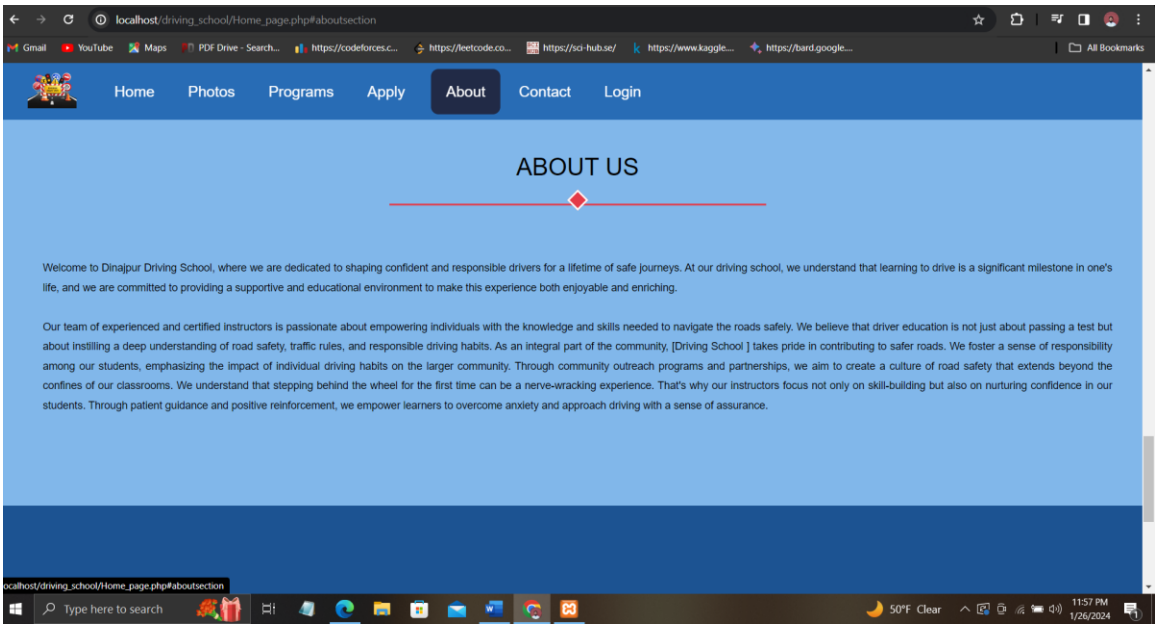
It is the program section



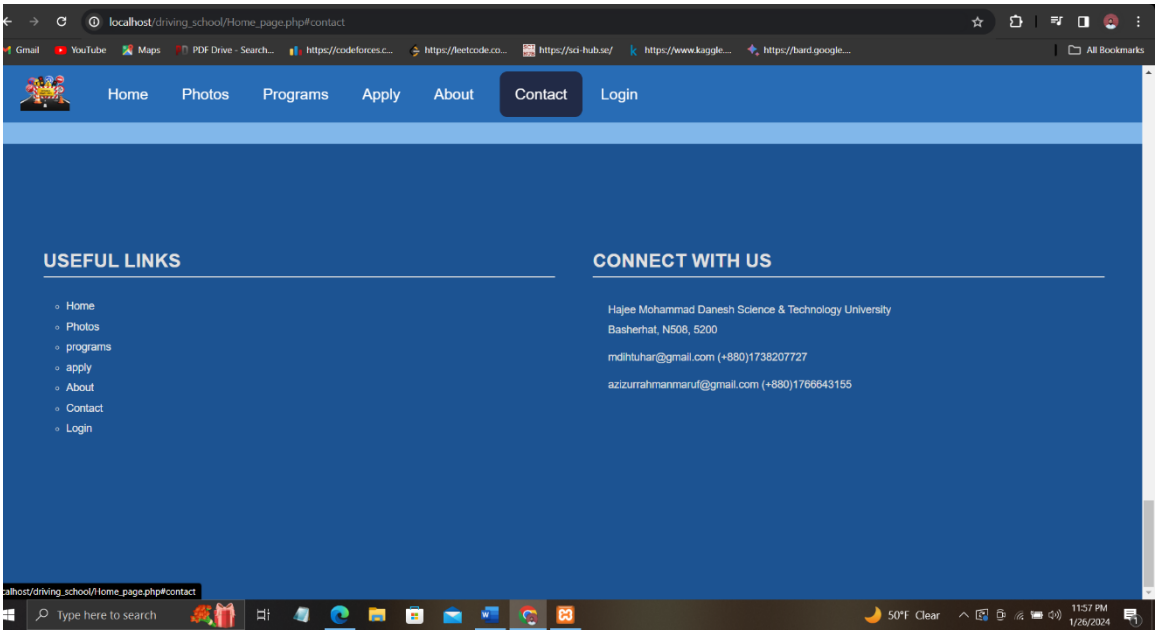
It is the Apply section



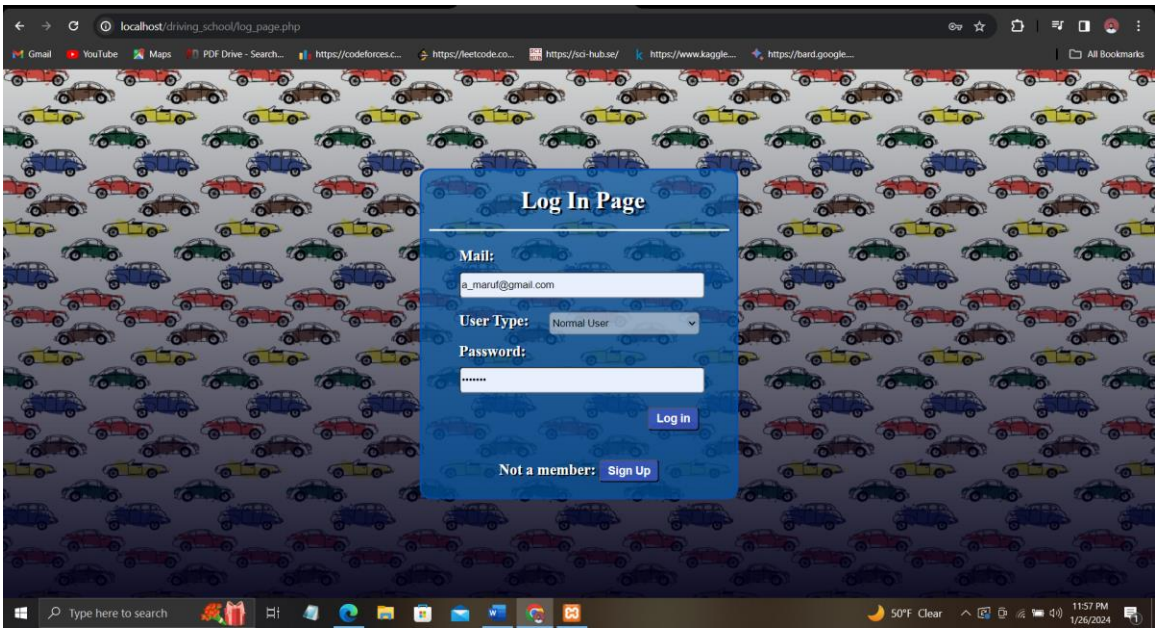
Here it is About us section



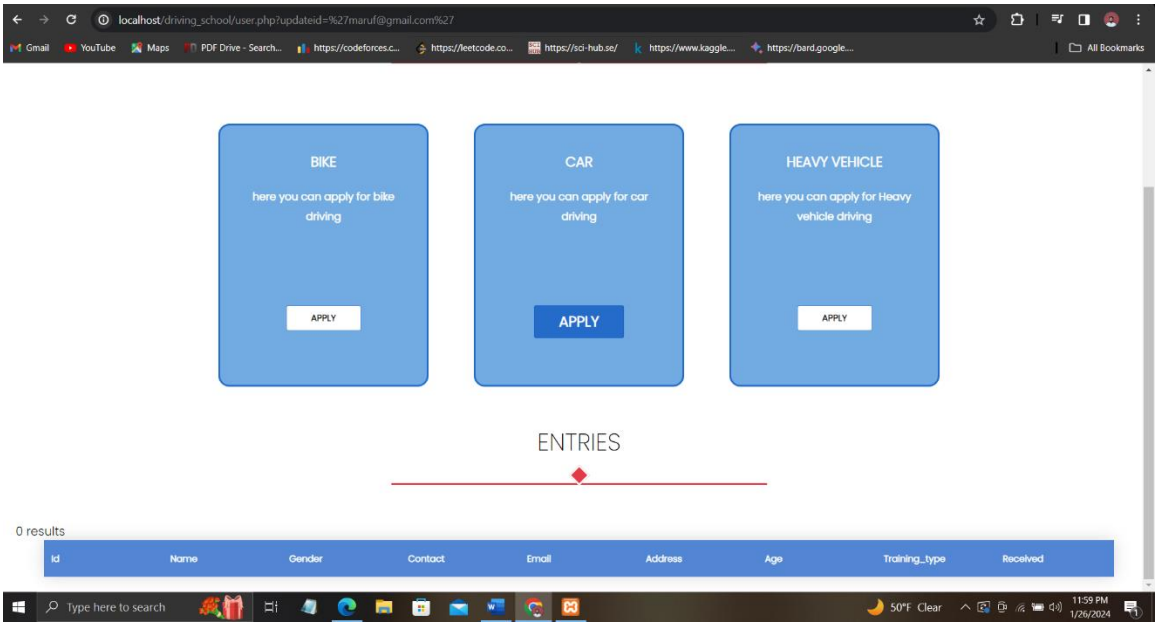
It is contact section



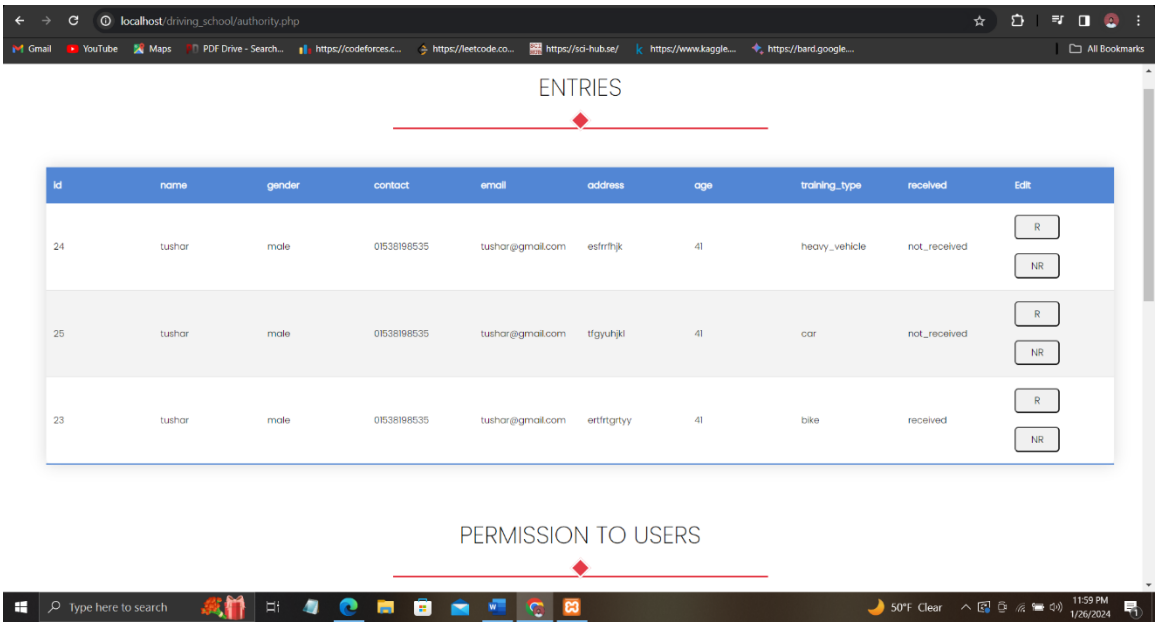
It is log in section

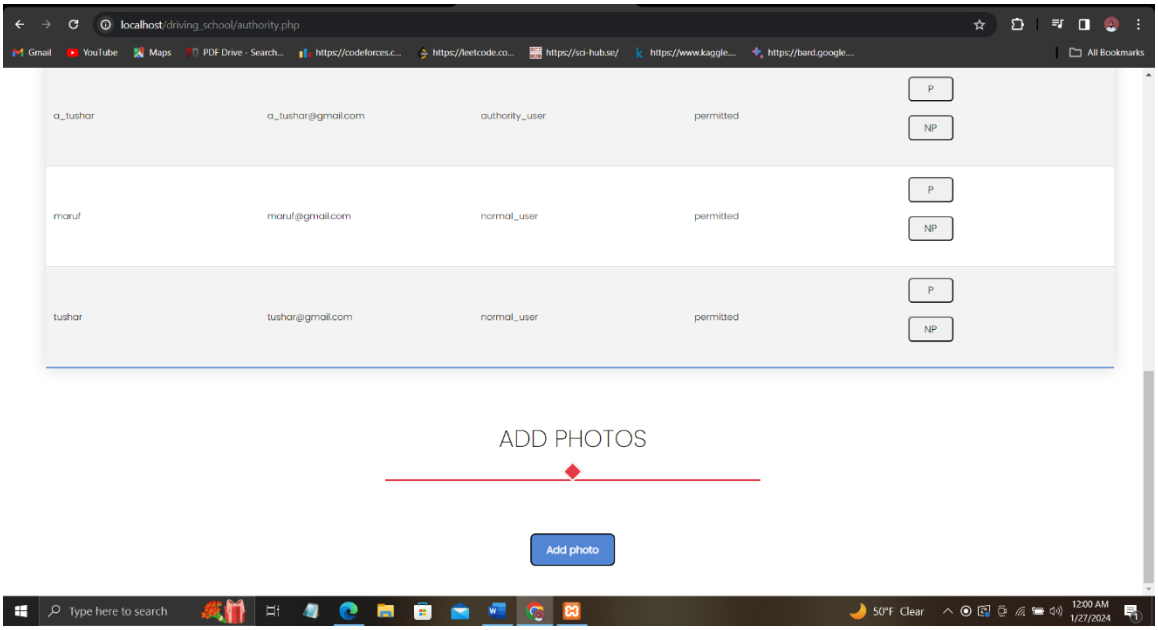


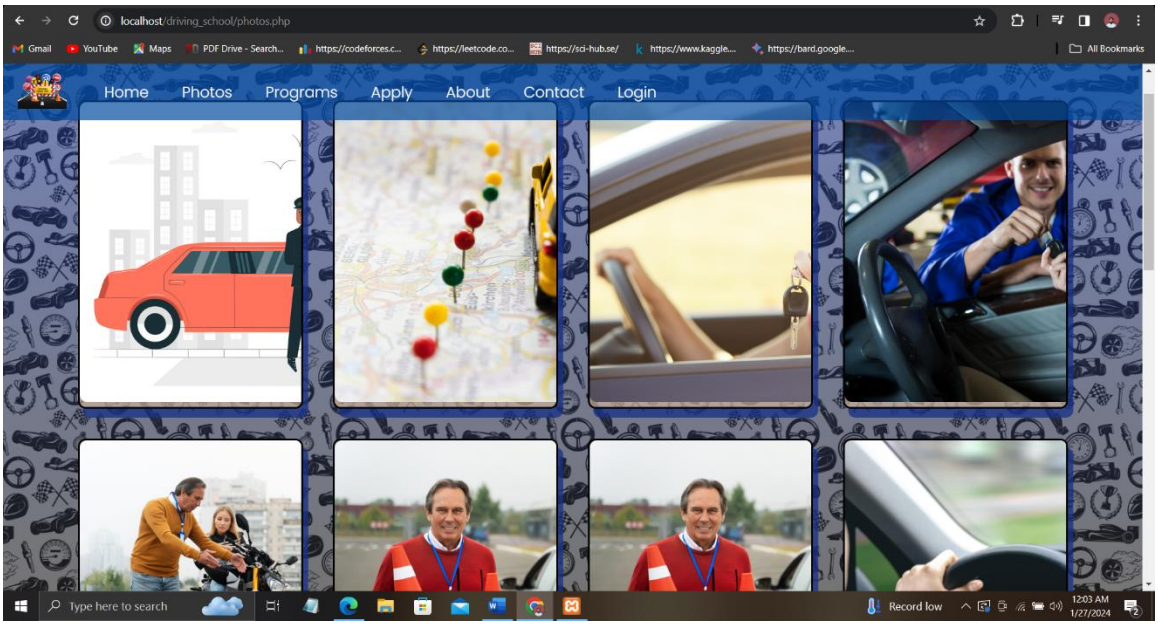
Log in as user



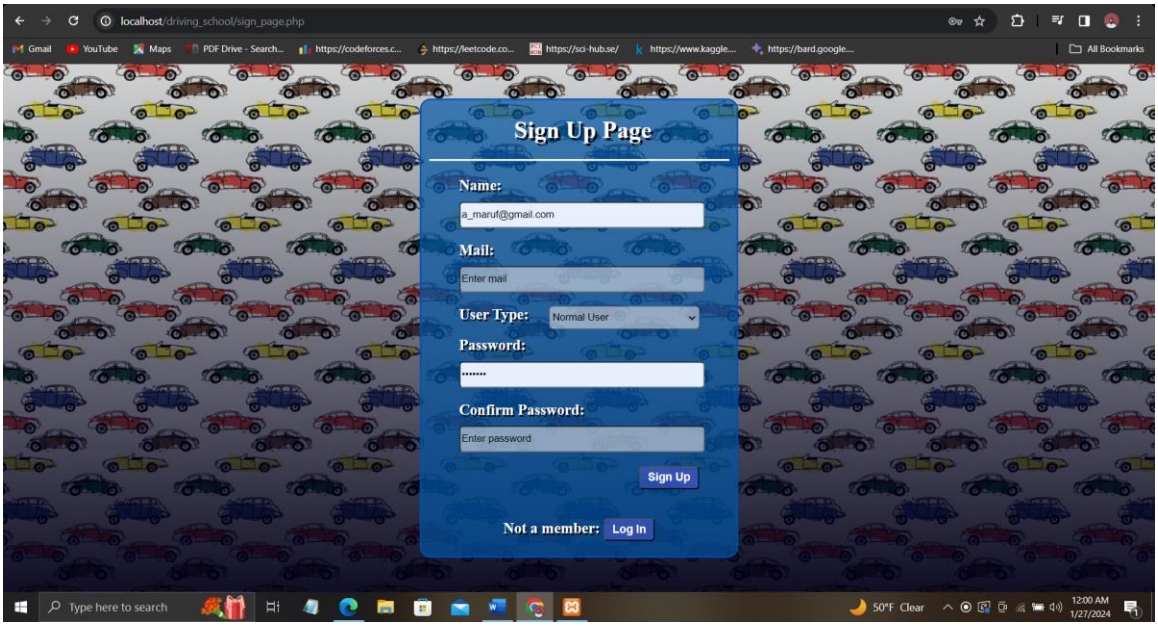
Log in as Authority





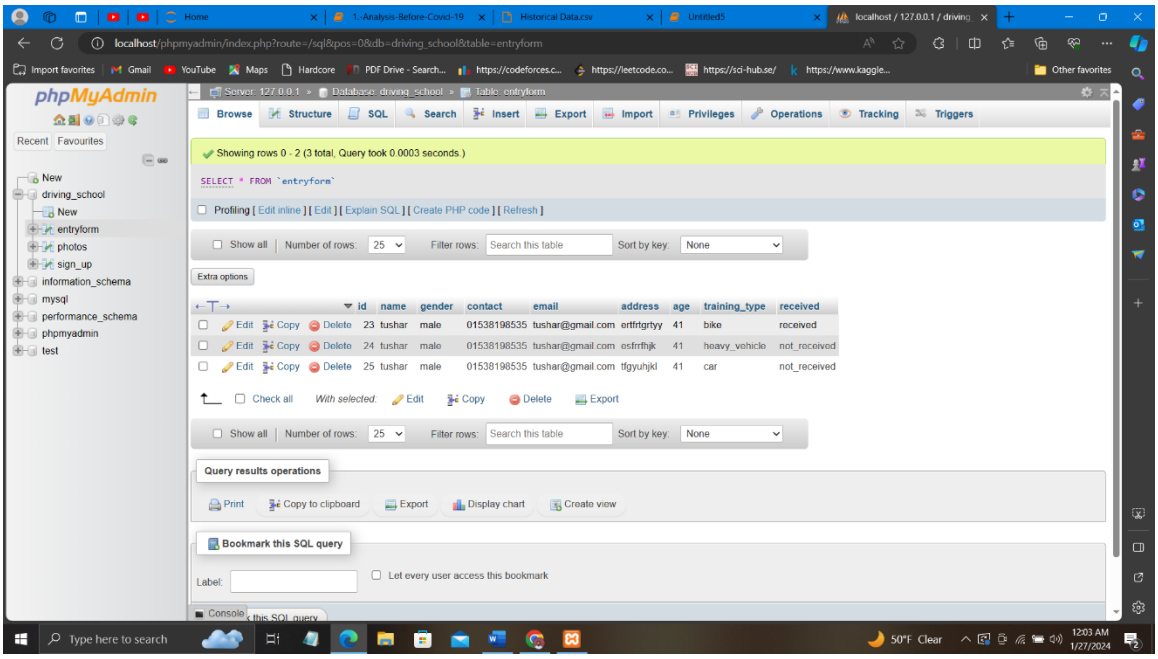

localhost/driving_school/photos.php
Home
Photos
Programs
Apply
About
Contact
Login

Sign up page

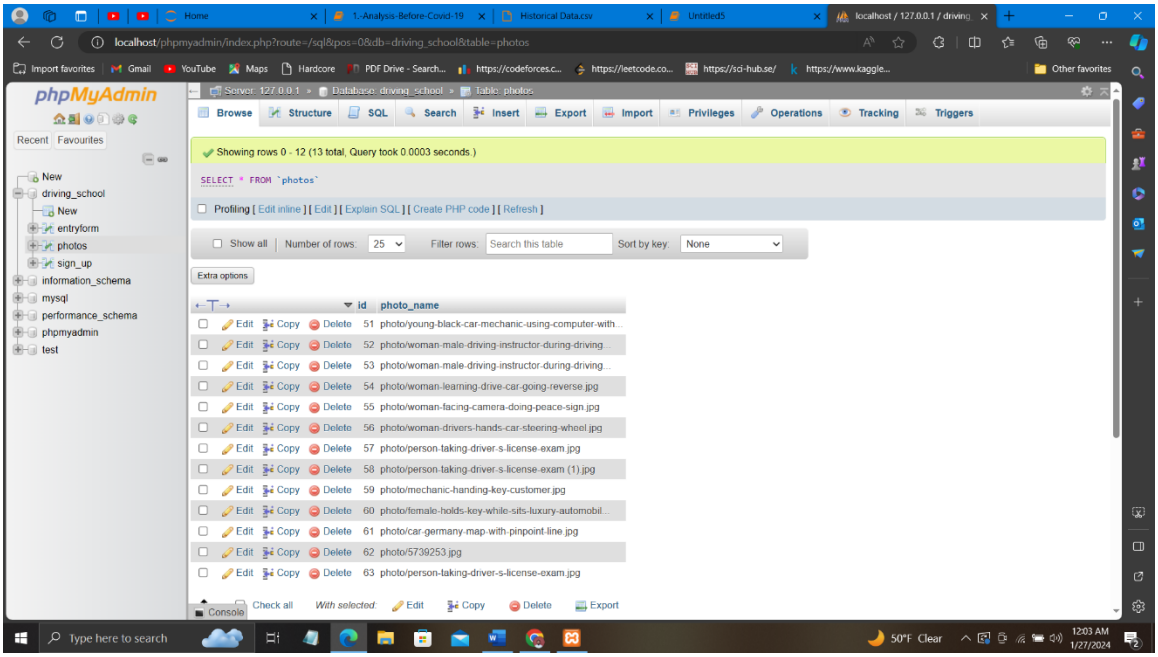

localhost/driving_school/sign_page.php
Sign Up Page
Name:
a_maruf@gmail.com
Mail:
Enter mail
User Type:
Normal User
Password:
Confirm Password:
Enter password
Sign Up
Not a member:
Log In

Database for the project

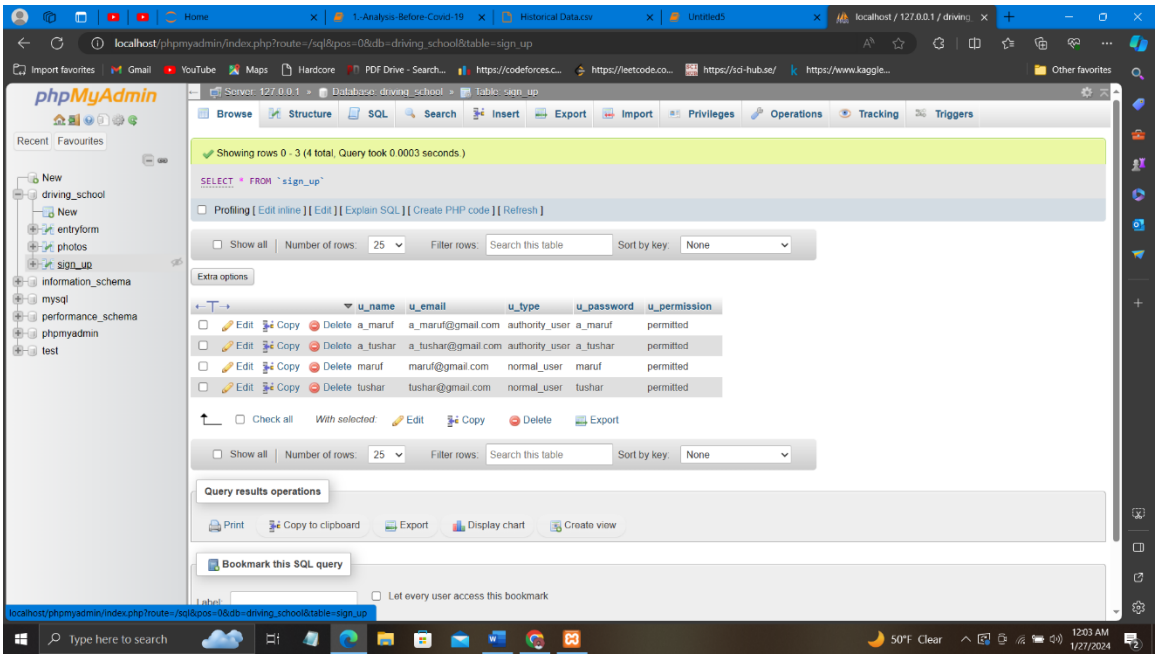
Entry form



Photos



Sign-up


phpMyAdmin
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Showing rows 0 - 3 (4 total, Query took 0.0003 seconds.)
SELECT * FROM `sign_up`
u_name
u_email
u_type
u_password
u_permission
a_maruf
a_maruf@gmail.com
authority_user
permitted
a_tushar
a_tushar@gmail.com
maruf
maruf@gmail.com
normal_user
tushar
tushar@gmail.com
Query results operations
Bookmark this SQL query

CHAPTER 6

TESTING AND ANALYSIS

6.1 Testing and Result Analysis

The software, which has been developed, has to be tested to prove its validity. Testing is considered as the least creative phase of the whole cycle of system design. In the real sense it is the phase, which helps to bring out the creativity of the other phases and makes it shine.

6.1.1 Testing

The Testing that we have done ----

- Unit testing
- Black box testing
- White box testing
- Debugging

6.1.2 Result Analysis

Serial no	Module	Load time(sec)	Accuracy(%)	status
1	User log in	0.2	100	complete
2	Authority log in	0.1	100	complete
3	Sign up	0.2	100	complete
4	Apply for bike	0.3	100	complete
5	Apply for Car	0.2	100	complete

6.2 Advantages

An online platform for a driving school can provide several advantages, both for the driving school itself and for learners. Here are some key advantages:

Convenience: Online platforms offer learners the flexibility to access course materials and resources at their own pace and schedule. This is particularly beneficial for individuals with busy lifestyles or those who prefer to learn at their own convenience.

Accessibility: Online driving school platforms make education accessible to a wider audience, including individuals in remote areas who may not have easy access to traditional driving school facilities. It eliminates geographical constraints and allows learners to participate from anywhere with an internet connection.

Cost-Effectiveness: Operating an online driving school can be cost-effective compared to maintaining physical facilities. There are reduced expenses related to renting or maintaining classrooms, and the school can reach a larger audience without the need for additional physical infrastructure**.**

6.3 Usefulness with respect to Existing system

There are many websites but though we are not so much professional but we have tried to build an easy system where public cannot get much complexity to visit our site this why we kept some of font page and use php for backend and html, css, JavaScript for front end and we have used log in option.

6.4 Unique feature of project

1.user interface is attractive.

2.user can easily log in and apply for Bike, Car, Heavy vehicle.

3.It is much secure to use.

CHAPTER 7

FUTURE ENHANCENMENT

1. We will do more details work in Home page, photos page, About page and Contact page.
2. We will add more security feature.
3. we will add Virtual Reality (VR) Simulations.
4. we will add an extra page for adding safety rules.

CONCLUSION

In our proposed system we have built a system where we can help every local people in Dinajpur. Here we have kept option for user and authority and user can log in and

Fil the form for learning driving bike, car etc. On the other hand authority can edit the function and maintenance the security.

REFERNCE

1. https://www.shimudrivingschool.com/
2. https://driving-school.com/
3. https://themeforest.net/search/driving%20school
4. https://dribbble.com/tags/driving-school-website
5. https://dribbble.com/tags/driving-school-website