



# **IUBAT – International University of Business Agriculture and Technology**

**Assignment on the Project Titled “Dipok Driving School”**

**Course Code: CSC 387**

**Submitted To**

**Puja Dey**

Lecturer

Department of Computer Science & Engineering

**Submitted By**

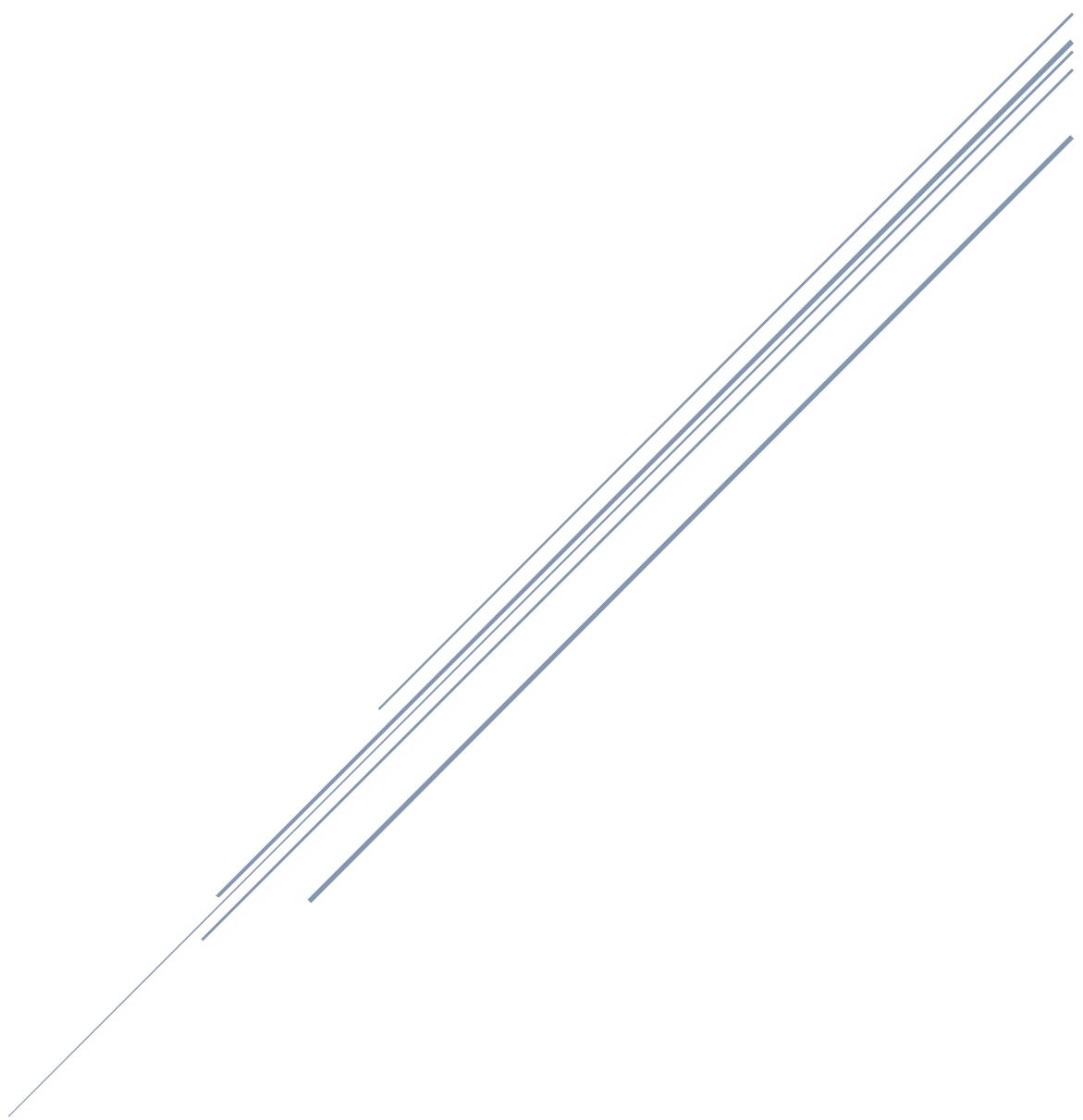
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Program: BCSE

Section: L

Date of Submission: 29/12/2024

# DIPOK DRIVING SCHOOL



Letter of Transmittal

Date: December 28, 2024

Puja Dey

Department of Computer Science and Engineering

IUBAT

Subject: Submission of Project Report on "Dipok Driving School".

Dear Madam,

Group DDS members are pleased to submit our project report titled "Dipok Driving School" as a partial requirement of the course under your supervision. This report outlines our research, development, and implementation processes for creating a comprehensive system that addresses driving school management needs.

We are grateful for your guidance and support throughout this project, which significantly contributed to the successful completion of the work. We have strived to adhere to your instructions and meet the course requirements.

We sincerely hope that our project report meets your expectations. Please do not hesitate to contact us for any clarifications or further information.

Thank you for this opportunity to work under your supervision.

Sincerely,

Shah Mohammad Rizvi (ID: 22203174)

Rakibul Islam Refat (ID: 22203141)

Aman Uddin Siyam (ID: 22203160)

Sefat Rana (ID: 21203048)

## Abstract

The Dipok Driving School project aims to streamline the operations of a traditional driving school by integrating an automated system for user registration, trainer management, session scheduling, payment processing, and feedback collection. The system leverages modern technologies to provide an intuitive and efficient platform for learners, trainers, and administrators.

Developed using the Agile model, the project emphasizes adaptability and user-centric design. Key components include a web-based application with secure login mechanisms, session tracking, and a robust database for efficient data management. This report discusses the project's development process, technical implementation, and future enhancement plans.

The system delivers a scalable and user-friendly solution, bridging gaps in traditional management processes and enhancing overall efficiency.

### Acknowledgment

We extend our heartfelt gratitude to Puja Dey, Lecturer, Department of Computer Science and Engineering, IUBAT, for her invaluable guidance, encouragement, and support throughout the development of this project. Her insights and constructive feedback were crucial to its successful completion.

We would also like to thank the Department of CSE, IUBAT, for providing the resources and platform to undertake this project.

Finally, we express our appreciation to our group members for their dedication and teamwork, which were instrumental in achieving our project objectives.

Declaration

We, the members of Group DDS, hereby declare that the project titled "Dipok Driving School" has been conducted under the supervision of Puja Dey, Lecturer, Department of Computer Science and Engineering, IUBAT.

We affirm that this report is the result of our effort and research. To the best of our knowledge, this report contains no material previously published or written by another person, except where due acknowledgment is made in the text.

Shah Mohammad Rizvi (ID: 22203174)

Rakibul Islam Refat (ID: 22203141)

Aman Uddin Siyam (ID: 22203160)

Sefat Rana (ID: 21203048)

**Letter of Authorization**

Date: December 28, 2024

Group DDS

Department of Computer Science and Engineering

IUBAT

Subject: Authorization for the Project "Dipok Driving School".

Dear Team,

This letter is to formally authorize Group DDS to carry out the project titled "Dipok Driving School" as a requirement of the course. The project will focus on developing a system that improves driving school operations, including session scheduling, and trainer management.

You are encouraged to utilize the department's resources and work collaboratively to achieve the project's objectives. Please ensure timely submission and adhere to the university's guidelines.

Best wishes for the successful completion of your project.

Sincerely,

Puja Dey

Lecturer

Department of Computer Science and Engineering

IUBAT

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# **Chapter 1: Project Introduction**

## ***1.1 Introduction***

Managing daily operations efficiently is vital for any organization in the digital age. The Dipok Driving School system is designed to transform traditional driving school management into a streamlined, automated process. This project encapsulates a comprehensive software solution to facilitate better communication, scheduling, and service delivery among admins, trainers, and learners while fostering a modern learning experience.

## ***1.2 Background of Study***

Driving schools are pivotal in shaping responsible drivers who adhere to traffic rules and regulations. Traditional driving school management relies heavily on manual processes, which are prone to errors, inefficiencies, and delays. This project arises from the need to digitize these operations and create a centralized system that eliminates redundancies and ensures smooth functionality.

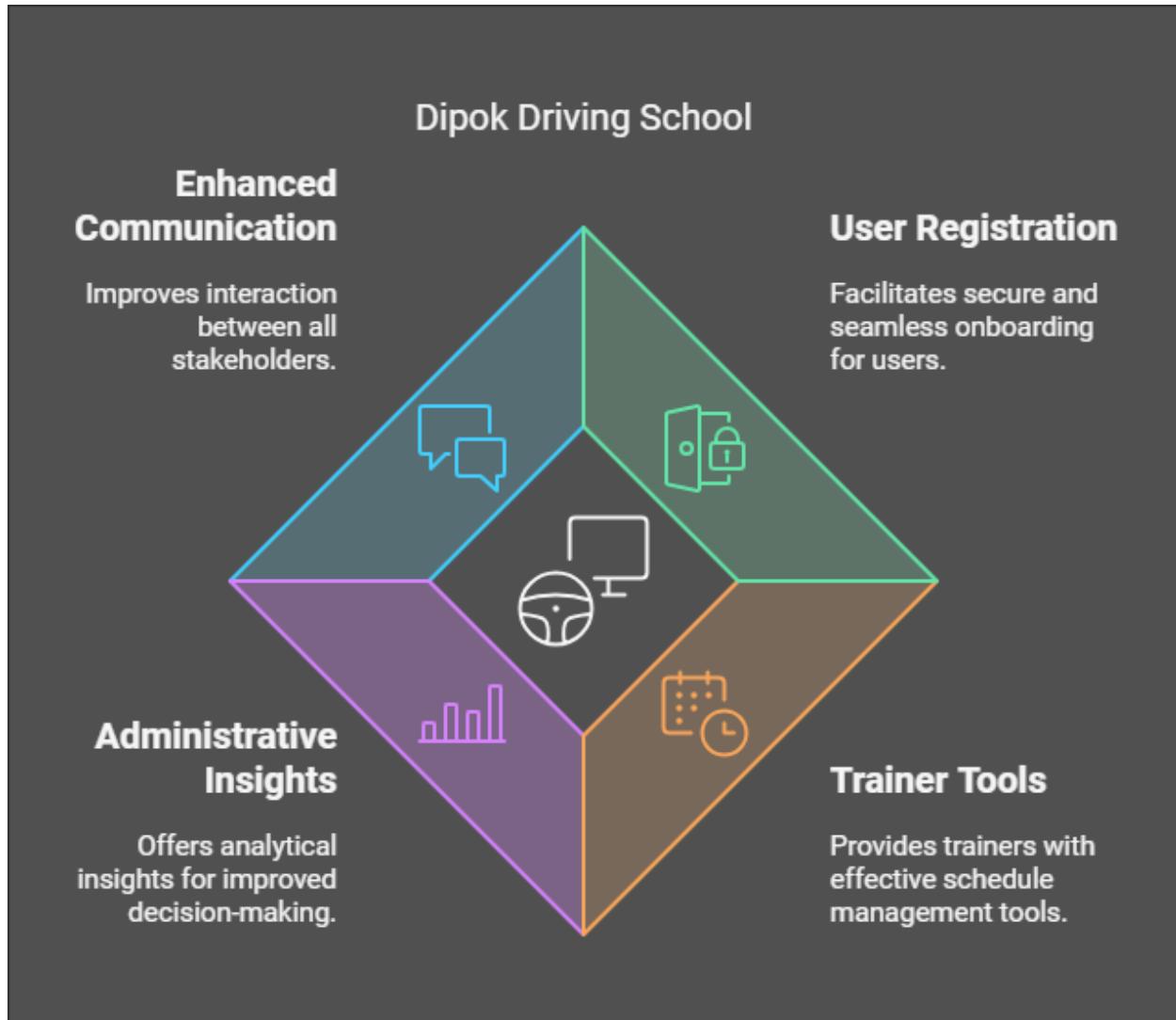
## ***1.3 Objectives***

### ***1.3.1 Broad Objective***

To develop a robust, user-friendly software application that digitizes the management operations of Dipok Driving School and enhances the experience for all stakeholders.

### ***1.3.2 Specific Objectives:***

- Enable secure and seamless user registration and scheduling.
- Provide trainers with tools to manage their schedules effectively.
- Equip administrators with analytical insights for better decision-making.
- Enhance communication between stakeholders through an integrated platform.

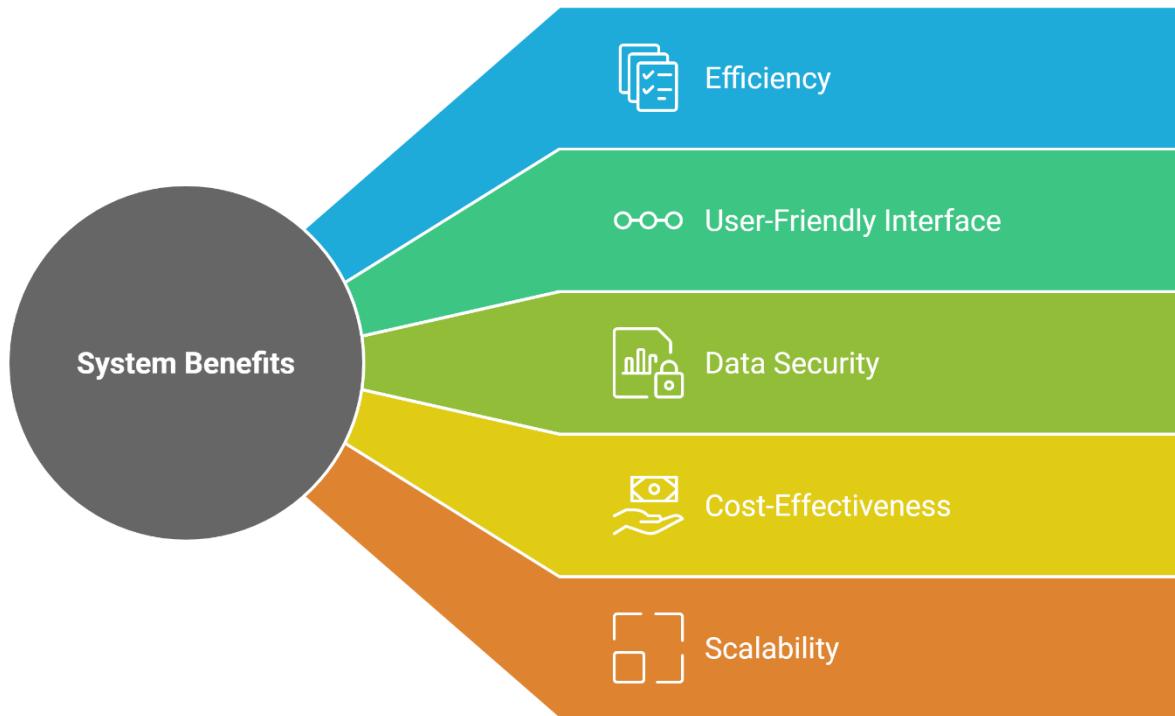


#### ***1.4 Proposed System Benefits***

The proposed system aims to deliver multiple benefits:

- Efficiency: Automates repetitive tasks like booking and scheduling.
- User-Friendly Interface: Simplifies interaction for admins, trainers, and users.
- Data Security: Employs modern techniques for secure data storage and retrieval.
- Cost-Effectiveness: Reduces the costs associated with manual processes.
- Scalability: Supports future expansion with minimal reconfiguration.

## Unveiling the Multifaceted Benefits of the System



### ***1.5 Methodology***

The development process involves systematic steps to ensure accuracy and effectiveness.

#### ***1.5.1 Data Sources***

- Primary Data: Feedback from driving school stakeholders.
- Secondary Data: Existing research, market analysis, and technical references.

### ***1.6 Limitation of the Project***

Despite its robust design, the project has some constraints:

- Limited scope for mobile integration during the initial phase.
- Dependency on user input for feedback accuracy.
- Budget constraints for implementing advanced features.

## ***1.7 Process Model***

The project follows the Agile Model, an iterative and incremental approach that emphasizes flexibility and continuous improvement. Instead of rigid sequential stages, the Agile Model divides the project into smaller, manageable iterations called sprints. Each sprint delivers a functional part of the system, ensuring rapid feedback and adaptability.

### ***1.7.1 Reason for Choosing the Agile Model***

Flexibility: Allows modifications to the system design based on stakeholder feedback during development.

Collaboration: Encourages close interaction between developers and stakeholders to align the system with real-world requirements.

Incremental Delivery: Provides working modules at the end of each sprint, enabling early detection and resolution of issues.

Continuous Improvement: Ensures the system evolves to meet changing needs and expectations.

### ***1.7.2 Logical Design***

Logical design represents the abstract structure of the system, focusing on the relationships and interactions between different components. It outlines how the data flows through the system and how various entities interact without considering the physical implementation.

#### ***Key elements of the logical design for Dipok Driving School:***

***Entity-Relationship Diagram (ERD):***

Defines the relationships between entities such as Users, Trainers, Sessions, and Payments.

***Data Flow Diagrams (DFD):***

Depicts how data moves between users, trainers, and admins and how it is processed in the system.

*Use Case Diagrams:*

Represents the interactions between actors (Admin, User, Trainer) and the system functionalities like booking, scheduling, and feedback submission.

### **1.7.3 Physical Design**

The physical design involves the actual implementation details of the system, specifying how the logical design will be realized in hardware and software.

***Key components of the physical design for Dipok Driving School:***

*Database Structure:*

MySQL database schema with tables for Users, Trainers, Sessions, and Payments.

Indexed tables for faster query processing.

*System Architecture:*

*Three-tier architecture:*

Presentation Layer: User interfaces for admin, trainers, and users.

Application Layer: PHP backend for processing logic and business rules.

Data Layer: MySQL database for persistent storage.

*Hardware Configuration:*

Deployment on a server with sufficient storage, processing power, and network bandwidth.

### **1.7.4 Design Activities**

Design activities refer to the tasks and processes undertaken to create both the logical and physical designs.

*Requirement Analysis Review:*

Confirm all system requirements are clear and feasible.

*Database Design:*

Develop ERD and implement the schema in MySQL.

*Interface Design:*

Create user-friendly interfaces for different actors (Admin, Trainer, User).

Use responsive design principles for accessibility on various devices.

*System Workflow Design:*

Create flowcharts and sequence diagrams to detail the workflows for booking, scheduling, and feedback.

*Prototyping:*

Build prototypes of core modules (e.g., booking and scheduling) to gather stakeholder feedback.

*Validation and Refinement:*

Review the logical and physical designs with the development team and stakeholders to address potential issues before implementation.

## **1.8 Feasibility Study**

### *1.8.1 Technical Feasibility:*

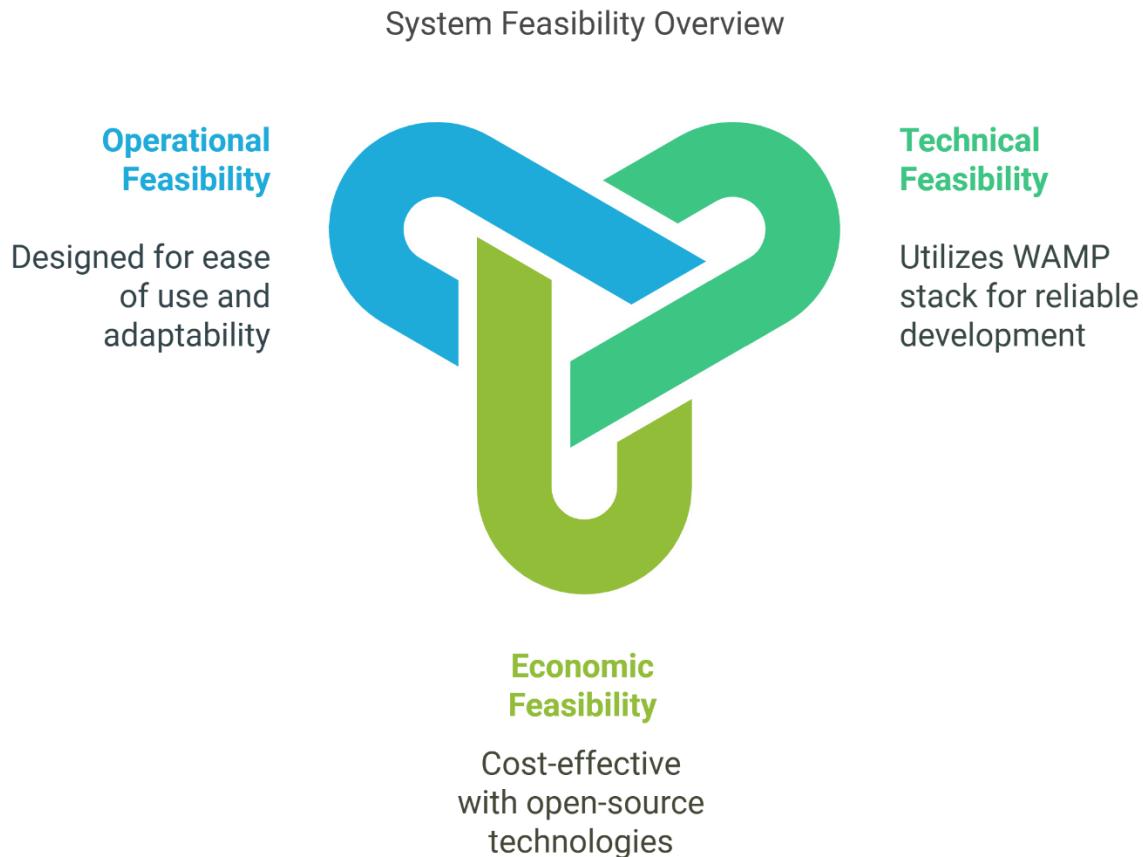
The system leverages the WAMP stack, which provides a reliable platform for development. Technical requirements are easily met with tools like PHP for dynamic scripting and MySQL for database management.

### *1.8.2 Economic Feasibility:*

The system offers a cost-effective solution, utilizing open-source technologies and minimal hardware resources. The anticipated savings from reduced manual effort outweigh the initial investment.

### *1.8.3 Operational Feasibility:*

The system is designed for ease of use, ensuring all stakeholders can quickly adapt to the platform. The intuitive interface and automated workflows simplify operations, making the system highly practical for real-world use.



## Chapter 2: Organization Overview

### 2.1 Organizational Overview

Dipok Driving School is a leading institution dedicated to cultivating skilled, responsible, and confident drivers. The organization focuses on providing quality driving education and practical training to individuals of all experience levels, from beginners to advanced learners. With a strong

commitment to safety and customer satisfaction, Dipok Driving School bridges the gap between theoretical knowledge and real-world driving expertise.

## ***2.2 Organization Services***

Dipok Driving School offers a diverse range of services to meet the needs of its clients:

- Beginner Driving Course: Comprehensive training for first-time drivers, covering traffic rules, vehicle controls, and road safety.
- Advanced Driving Course: Specialized programs for experienced drivers seeking to enhance their skills, such as highway driving or defensive driving techniques.
- Driving License Assistance: Guidance through the driving license application process, including theoretical and practical test preparation.

## ***2.3 Organization Location***

Dipok Driving School operates from a centrally located facility designed for easy accessibility and a comfortable learning environment.

- Main Office:

Mukto Bangla Shopping Complex, 7th Floor, Space No: 184, Nearby Mirpur-1 Over Bridge, Dhaka 1216, Bangladesh.

## ***2.4 Organization Vision and Mission***

### **Vision**

To be the most trusted driving school, empowering individuals to drive safely and confidently while fostering a culture of road safety awareness.

### **Mission**

- To provide top-quality driving education through innovative teaching methods and modern tools.

- To ensure a customer-centric approach, delivering services tailored to individual needs.
- To promote road safety by instilling responsible driving habits in all learners.
- To remain committed to continuous improvement and embrace technological advancements in driving education.

## **Chapter 3: Requirement Engineering**

### ***3.1 Requirement Analysis***

Requirement analysis is the foundation of any successful software development project. For the Dipok Driving School system, it involves understanding the needs of all stakeholders, including admins, trainers, and users, and translating them into actionable system requirements. This phase ensures clarity in the system's scope, functionality, and constraints.

### ***3.2 Requirement Engineering***

Requirement engineering focuses on systematically identifying, documenting, and validating the requirements to ensure they align with the project's objectives. This process is divided into the following categories:

#### **3.2.1 User Requirements**

These are the high-level needs of the stakeholders interacting with the system:

Admins:

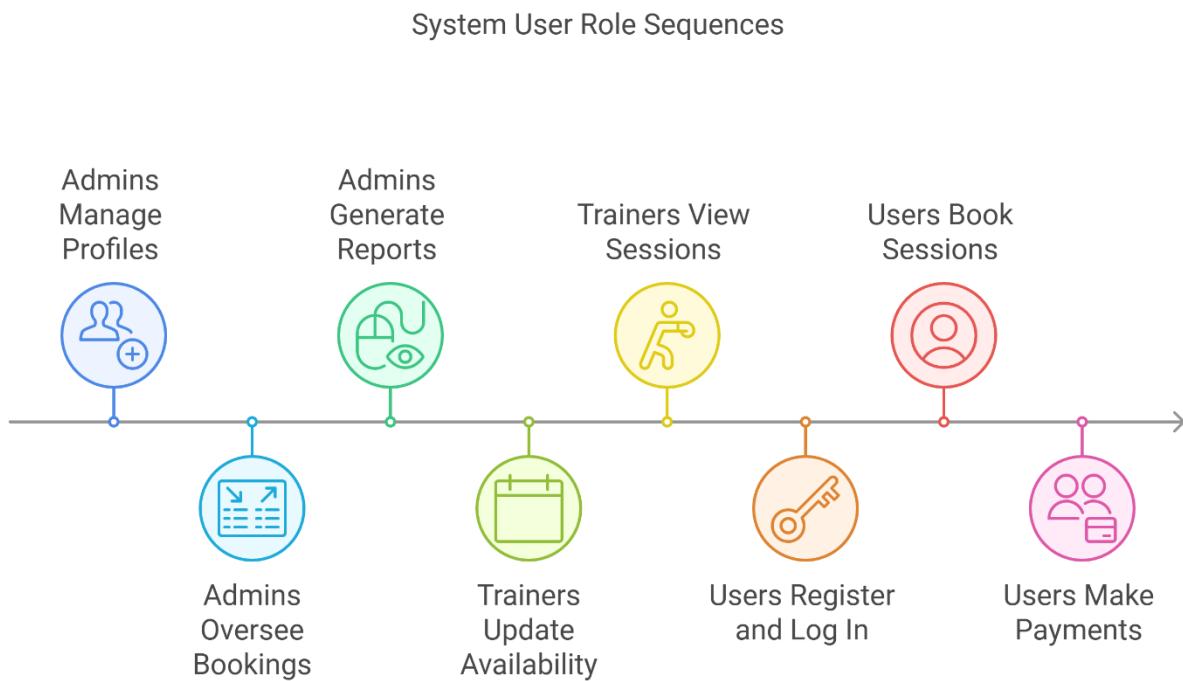
- Manage user and trainer profiles.
- Oversee bookings and payments.
- Generate performance and activity reports.

Trainers:

- Update availability and manage their schedules.
- View assigned sessions and provide session feedback.

Users:

- Register, log in, and update their profiles.
- Book driving sessions and provide feedback post-session.
- Make payments securely through the system.



### 3.2.2 System Requirements

These requirements define the technical and architectural aspects of the system:

- Platform Compatibility: Operates on web browsers using the WAMP stack.
- Database Management: Efficiently handles user, trainer, and booking data.

- Security Measures: Implements secure authentication and encrypted data storage.
- Scalability: Supports increasing numbers of users and trainers as the organization grows.

### ***3.2.3 Functional Requirements***

These requirements specify the core operations the system must perform:

- User Registration and Authentication:
  - Allow users to sign up, log in, and recover passwords securely.
- Booking Management:
  - Enable users to book sessions and trainers to view and confirm schedules.
- Feedback System:
  - Allow users and trainers to submit session feedback.
- Report Generation:
  - Provide admins with analytical reports on user activity and performance metrics.

### ***3.2.4 Non-Functional Requirements***

These requirements outline the system's quality attributes and constraints:

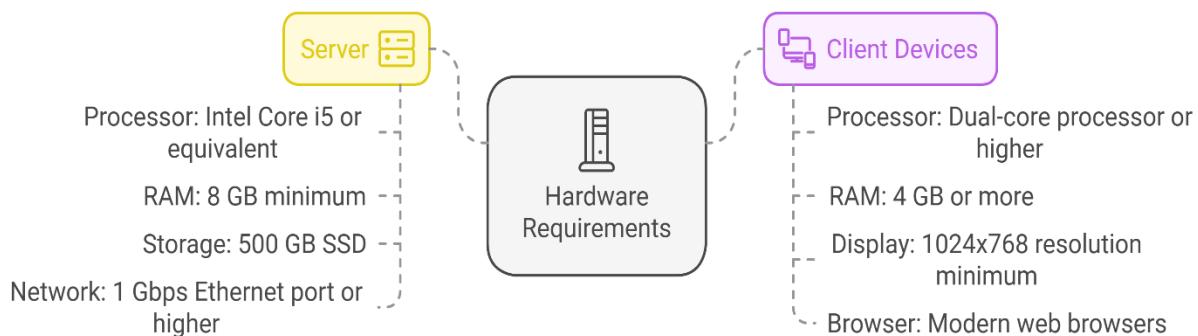
- Reliability:
  - The system should have 99.9% uptime.
- Usability:
  - Ensure an intuitive interface with a minimal learning curve for all stakeholders.
- Security:
  - Use HTTPS for secure communication and implement hashed passwords for authentication.
- Maintainability:

- Ensure the system can be updated with minimal downtime and effort.
- Scalability:
  - Accommodate additional features and increased user load without significant redesign.

### ***3.2.5 Hardware Requirements***

The hardware requirements for the Dipok Driving School system are designed to support smooth operation and scalability.

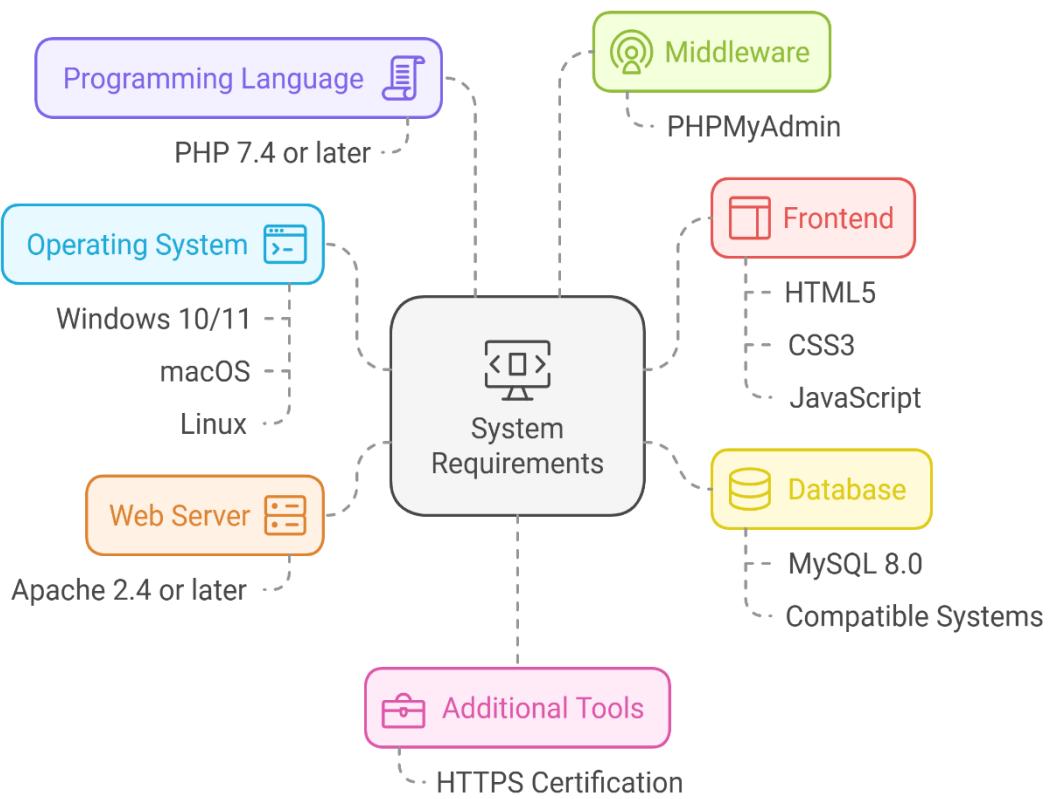
- Server:
  - Processor: Intel Core i5 or equivalent
  - RAM: 8 GB minimum
  - Storage: 500 GB SSD
  - Network: 1 Gbps Ethernet port or higher
- Client Devices:
  - Processor: Dual-core processor or higher
  - RAM: 4 GB or more
  - Display: 1024x768 resolution minimum
  - Browser: Modern web browsers (e.g., Chrome, Firefox, Edge)



### 3.2.6 System Requirements

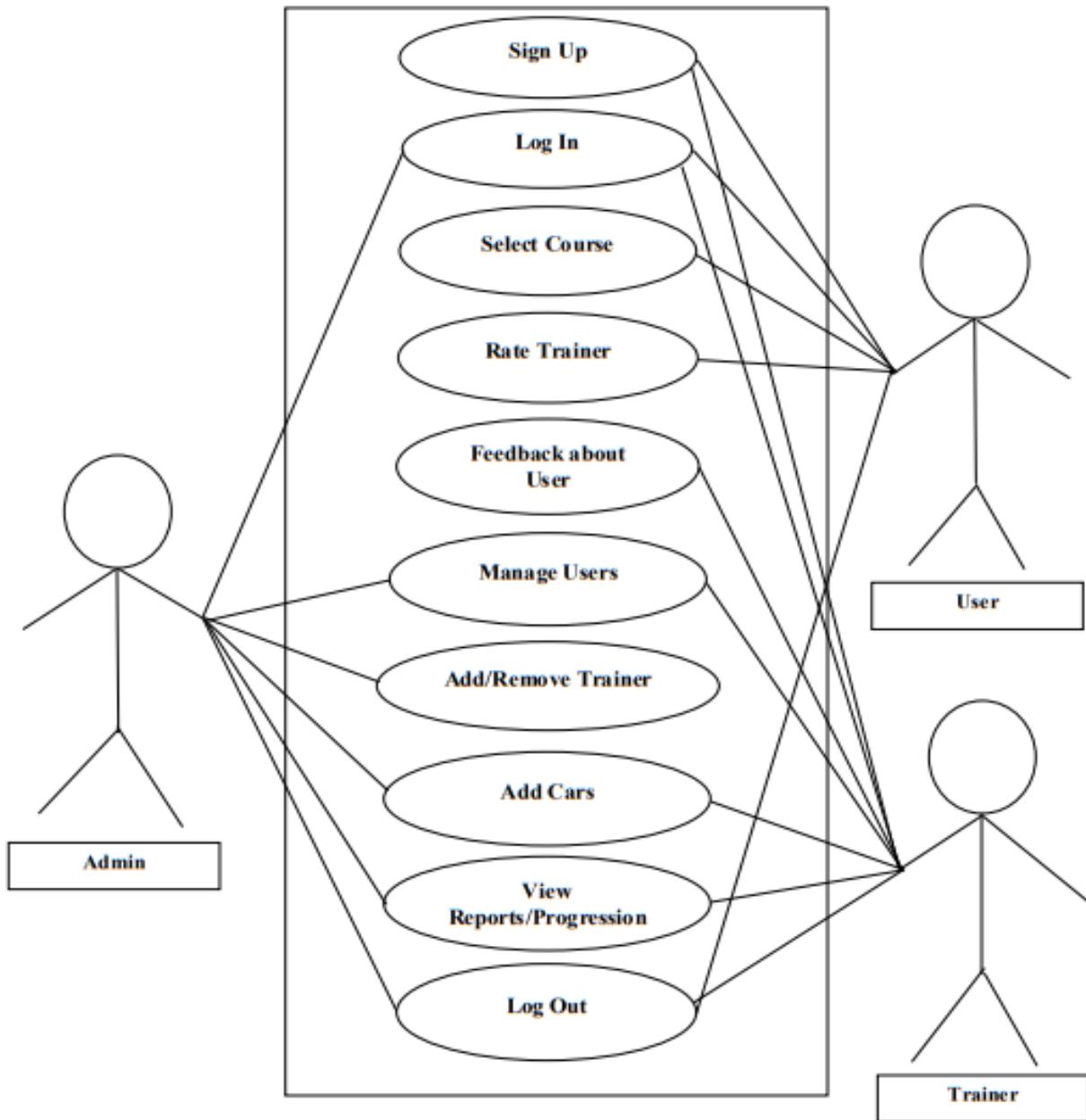
The system requirements specify the software and platform components necessary to run the application:

- Operating System: Windows 10/11, macOS, or Linux.
- Web Server: Apache 2.4 or later (part of WAMP stack).
- Database: MySQL 8.0 or compatible database management system.
- Programming Language: PHP 7.4 or later for backend development.
- Frontend: HTML5, CSS3, JavaScript (with libraries such as Bootstrap).
- Middleware: PHPMyAdmin for database management.
- Additional Tools: HTTPS certification for secure data transmission.



### 3.3 Use Case Diagram of the System

Use Case Diagram of Dipok Driving School:



## **Chapter 4: Implementation of Model**

### **4.1 Database Design**

The database design ensures that all data required for the Dipok Driving School system is stored, retrieved, and managed efficiently. The design focuses on normalizing data to eliminate redundancy while maintaining performance and scalability.

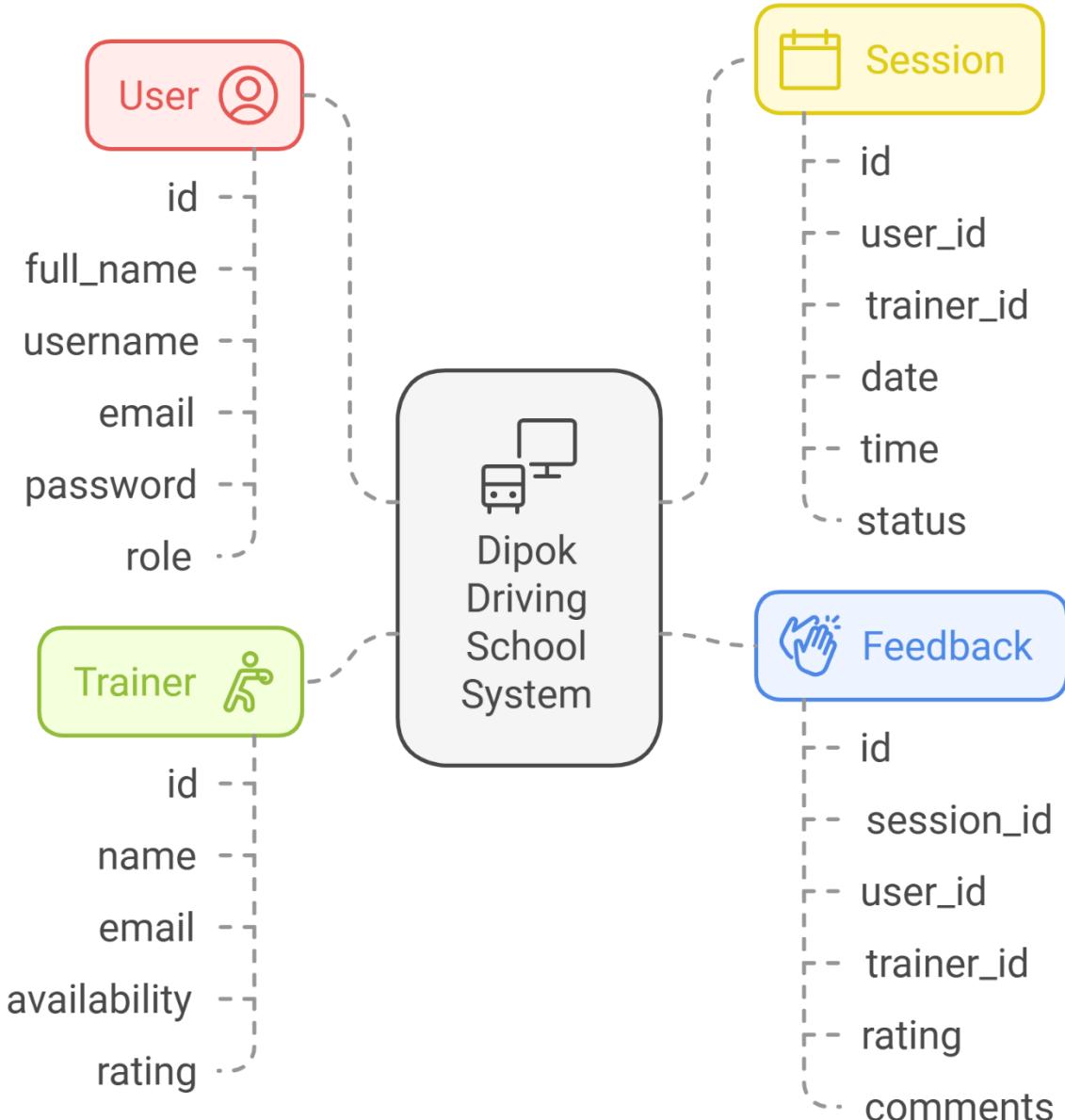
### **4.2 Entity Relationship Model**

The Entity Relationship (ER) model represents the logical structure of the database. It defines the relationships between various entities like Users, Trainers, and Sessions forming the foundation for database development.

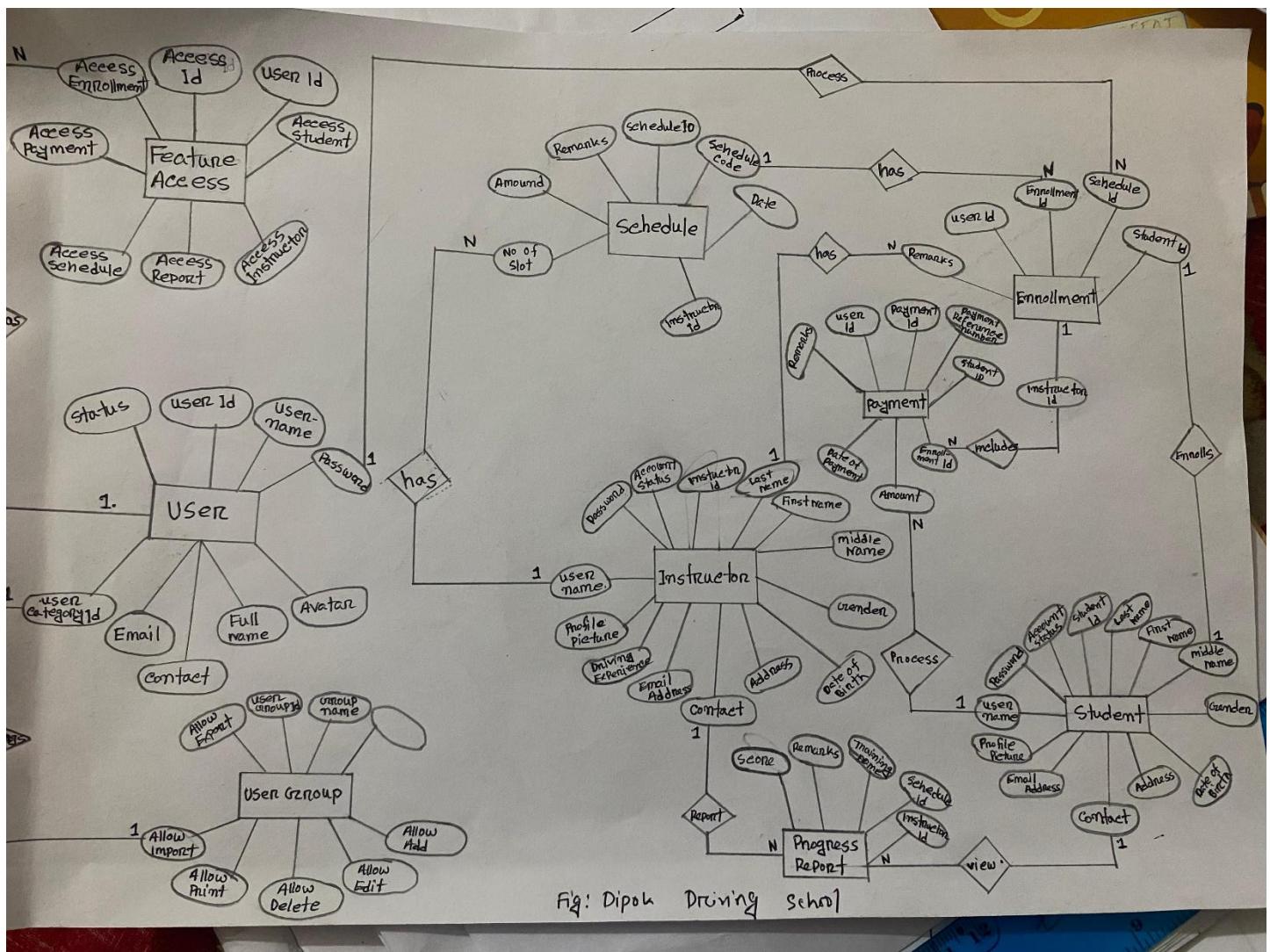
### **4.3 Identifying Entities**

The key entities for the Dipok Driving School system:

1. User
  - o Attributes: id, full\_name, username, email, password, role (Admin/User).
2. Trainer
  - o Attributes: id, name, email, availability, rating.
3. Session
  - o Attributes: id, user\_id, trainer\_id, date, time, status.
4. Feedback
  - o Attributes: id, session\_id, user\_id, trainer\_id, rating, comments.



4.4 Entity Relationship Diagram (ERD)



#### 4.5 Database Table Structure

The database structure for the Dipok Driving School project has been carefully designed to support the functionalities of the system. Below is an overview of the primary tables, their attributes, and relationships.

##### 1. Table: users

This table stores information about all system users, including admins, trainers, and learners.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
user_id	INT (Primary Key)	Unique identifier for each user.
full_name	VARCHAR(100)	User's full name.
username	VARCHAR(50) (Unique)	User's unique username.
email	VARCHAR(100) (Unique)	User's unique email address.
password	VARCHAR(255)	Hashed password for secure authentication.
role	ENUM('admin', 'user', 'trainer')	Role of the user in the system.
created_at	TIMESTAMP	Record creation timestamp.

---

## 2. Table: courses

This table holds information about the driving courses offered by the school.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
course_id	INT (Primary Key)	Unique identifier for each course.
course_name	VARCHAR(100)	Name of the course.
description	TEXT	Description of the course.
duration	VARCHAR(50)	Duration of the course (e.g., 4 weeks).
price	DECIMAL(10, 2)	Price of the course.
created_at	TIMESTAMP	Record creation timestamp.

---

## 3. Table: trainers

This table contains details about trainers associated with the school.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
trainer_id	INT (Primary Key)	Unique identifier for each trainer.
trainer_name	VARCHAR(100)	Name of the trainer.
experience	VARCHAR(50)	Trainer's experience level.
specialization	VARCHAR(100)	Trainer's area of expertise.
rating	FLOAT	Overall rating of the trainer.
created_at	TIMESTAMP	Record creation timestamp.

---

#### **4. Table: cars**

This table tracks the cars available for training sessions.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
car_id	INT (Primary Key)	Unique identifier for each car.
car_model	VARCHAR(100)	Model of the car.
car_type	ENUM('manual', 'automatic')	Type of car transmission.
license_plate	VARCHAR(20) (Unique)	Unique license plate number.
availability	BOOLEAN	Car availability status.
created_at	TIMESTAMP	Record creation timestamp.

---

#### **5. Table: feedback**

This table stores user feedback about trainers.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
feedback_id	INT (Primary Key)	Unique identifier for each feedback entry.
user_id	INT (Foreign Key)	ID of the user providing the feedback.
trainer_id	INT (Foreign Key)	ID of the trainer receiving the feedback.
feedback_text	TEXT	User's feedback.
created_at	TIMESTAMP	Record creation timestamp.

---

## 6. Table: ratings

This table records user ratings for trainers.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
rating_id	INT (Primary Key)	Unique identifier for each rating entry.
user_id	INT (Foreign Key)	ID of the user providing the rating.
trainer_id	INT (Foreign Key)	ID of the trainer being rated.
rating	INT	Rating value (1-5).
created_at	TIMESTAMP	Record creation timestamp.

---

## 7. Table: user\_courses

This table maintains records of user enrollments in courses.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
user_course_id	INT (Primary Key)	Unique identifier for each enrollment.

<b>Field Name</b>	<b>Type</b>	<b>Description</b>
user_id	INT (Foreign Key)	ID of the enrolled user.
course_id	INT (Foreign Key)	ID of the enrolled course.
enrolled_at	TIMESTAMP	Enrollment timestamp.

---

## **Relationships Between Tables**

- Users & Feedback/Ratings: Users provide feedback and ratings for trainers.
- Users & Courses: Users enroll in courses offered by the school.
- Trainers & Feedback/Ratings: Trainers receive feedback and ratings from users.
- Admin Logs: Records admin actions for auditing purposes.

## **Chapter 5: System Description**

### **5.1 Data Flow Diagram (DFD) of Project**

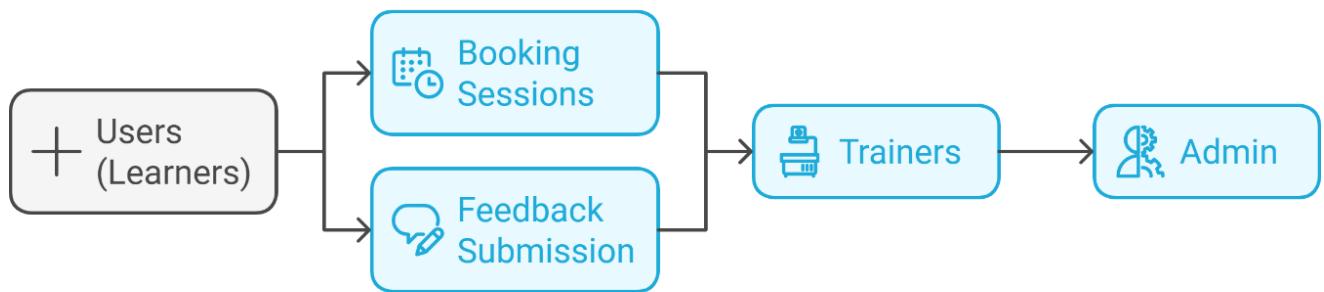
The Data Flow Diagram (DFD) provides a visual representation of the data flow within the Dipok Driving School system. It showcases how data moves between users, trainers, admins, and the system.

#### **DFD Levels:**

##### **1. Level 0 (Context Diagram):**

- Entities:
  - Users (Learners)
  - Trainers
  - Admin
- Processes:

- Booking Sessions
- Feedback Submission



④ Data Flow Model for "Dipak Driving School".

### Context level Diagram

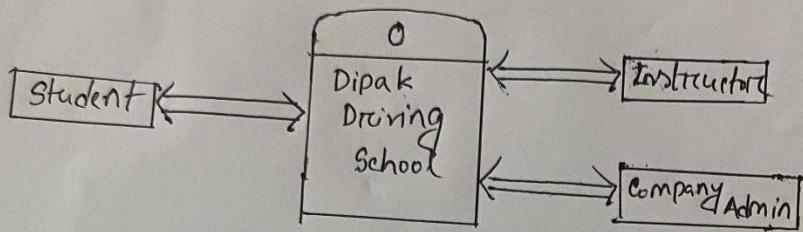


Fig: Context level Diagram

### Level 1 DFD

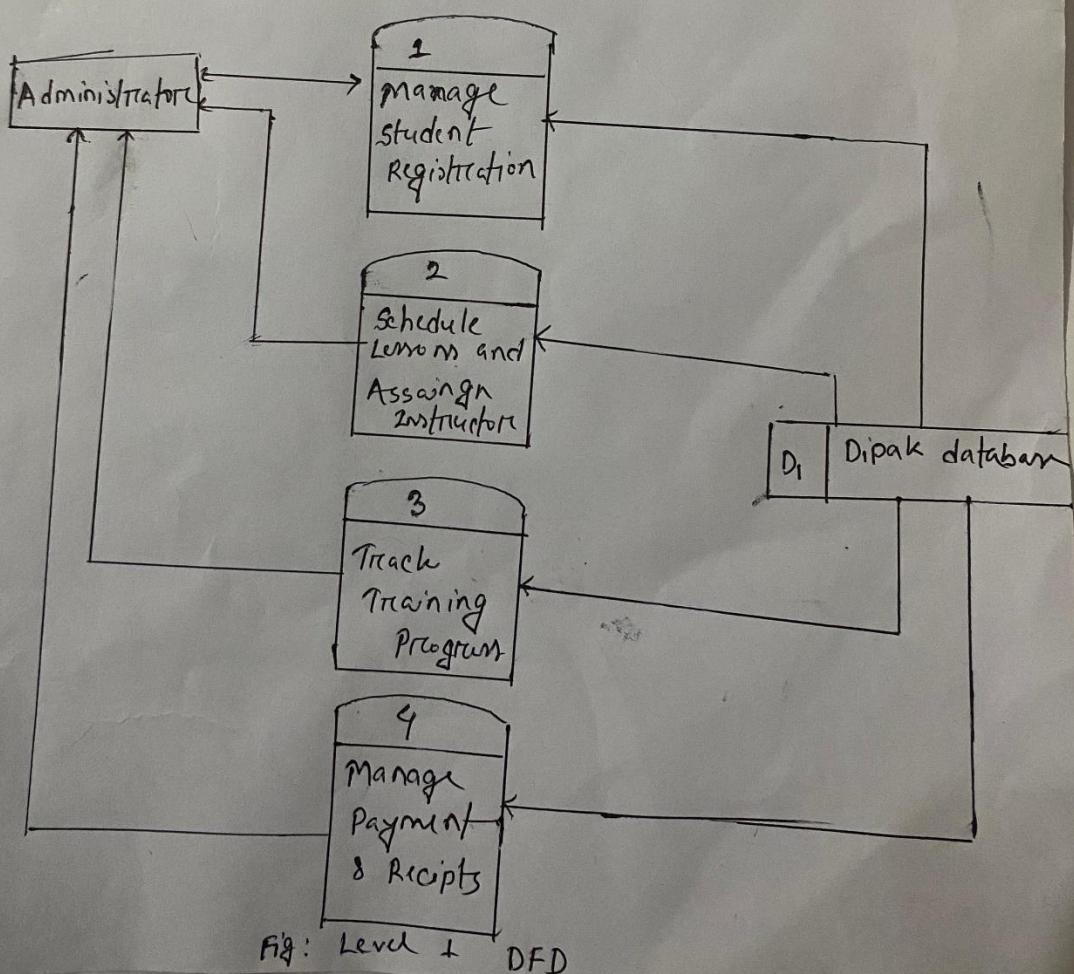
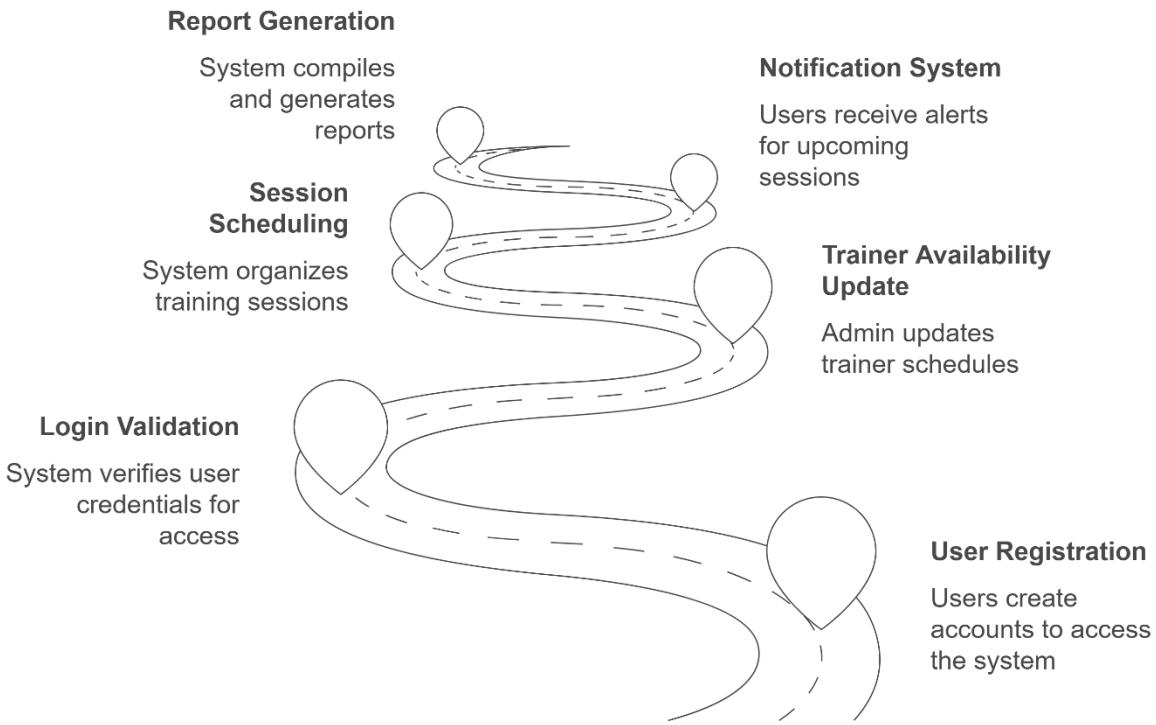


Fig: Level 1 DFD

## 2. Level 1:

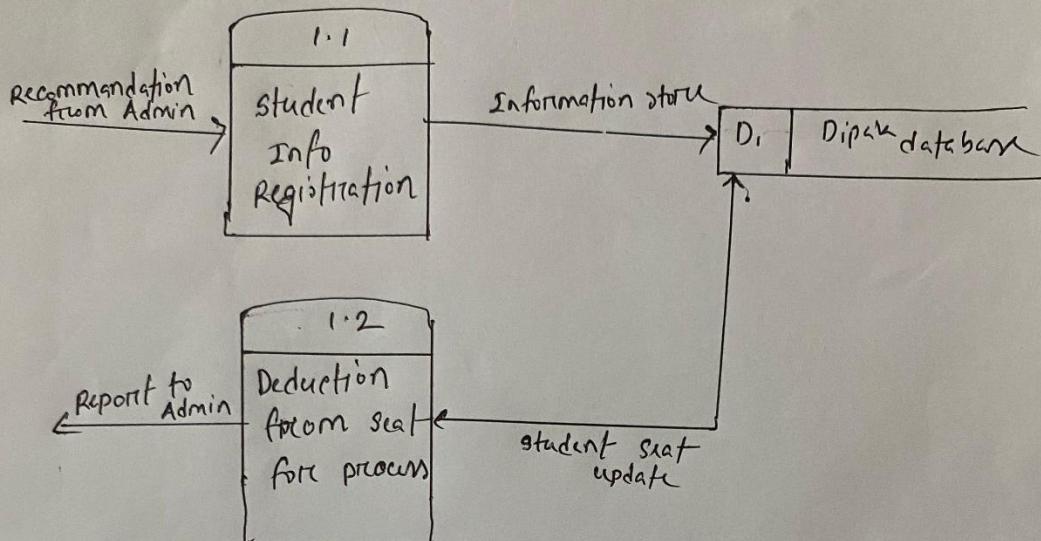
- o Processes:
  - User registration and login validation.
  - Trainer availability updates by admin.
  - Session scheduling and notification system.
  - Payment validation and confirmation.
  - Generating system reports.

### Level 1 System Processes Sequence



## 3. Level 2:

## Level-02 (Process-1)



## Level-02 (Process-2)

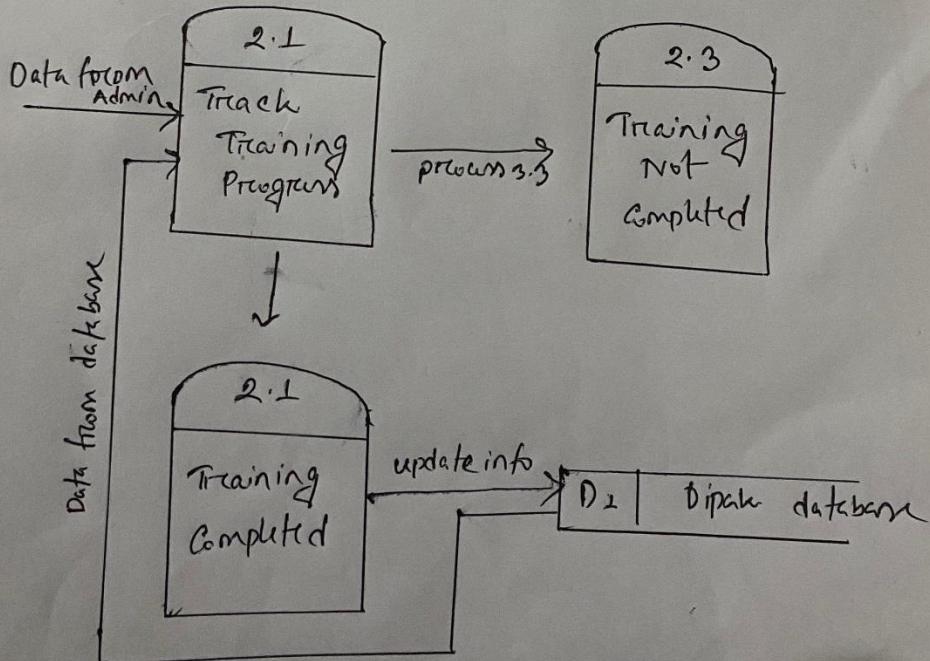


Fig: Level 2 Process 2

## **5.2 Activity Diagram**

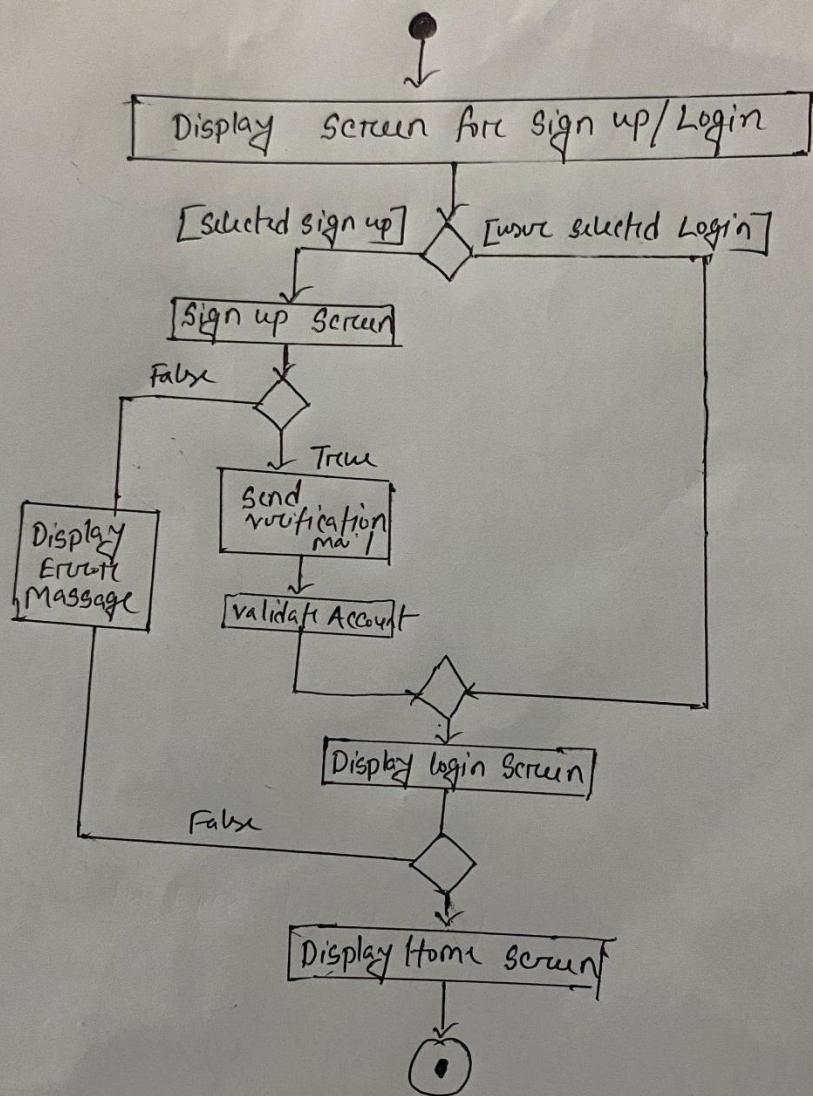
The Activity Diagram illustrates the workflows within the system, representing the dynamic aspects of processes such as session booking, payment processing, and feedback submission.

### ***Activity: Session Booking Workflow***

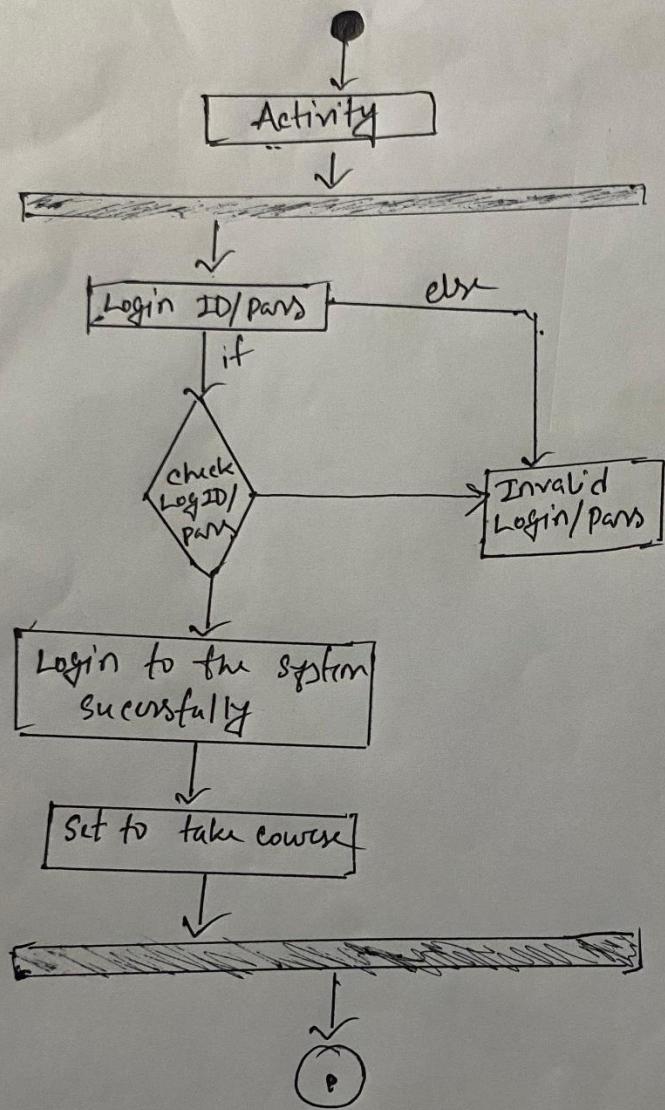
1. User logs into the system.
2. User browses trainer availability.
3. User selects a trainer, date, and time for the session.
4. System confirms session availability.
5. User confirms booking and proceeds to payment.
6. System processes payment and updates booking status.
7. Notification is sent to both the user and trainer.

Activity Diagram for "Dipak Driving school"

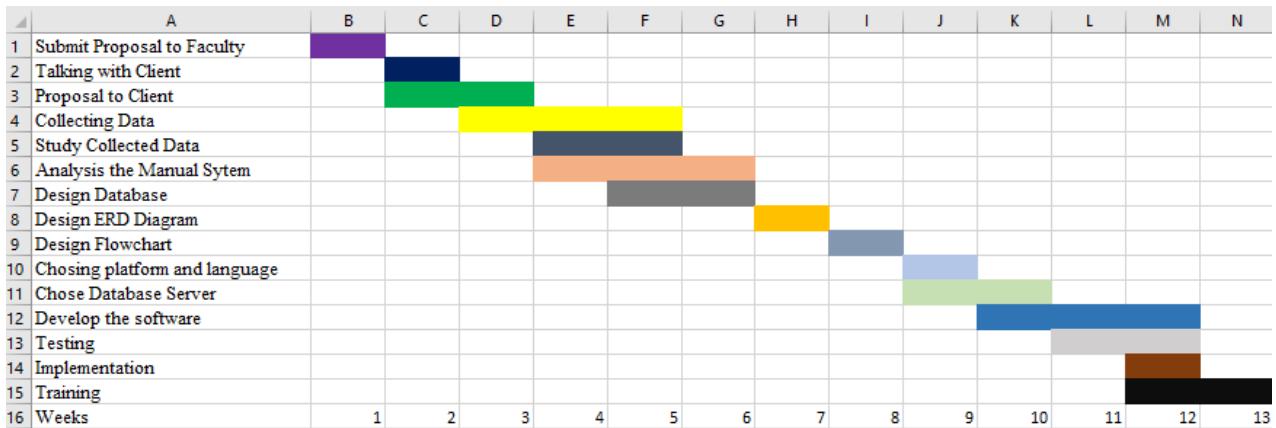
sign up/ login



Take Course



### 5.3 Gantt Chart



## Chapter 6: Project Cost Estimation

### 6.1 Hardware Costs

The hardware costs cover the physical infrastructure needed to support the development, testing, and deployment of the Dipok Driving School system.

Item	Quantity	Unit Cost (BDT)	Total Cost (BDT)
Server Machine	1	80,000	80,000
Client Computers	2	40,000	80,000
Networking Equipment	1 Set	20,000	20,000
Backup Storage Devices	1	10,000	10,000

**Total Hardware Costs: 190,000 BDT**

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### 6.2 Software Costs

The software costs include the expenses for necessary tools, licenses, and development environments.

<b>Item</b>	<b>Quantity</b>	<b>Unit Cost (BDT)</b>	<b>Total Cost (BDT)</b>
WAMP Server (Free)	N/A	0	0
MySQL Database (Free)	N/A	0	0
Code Editor (VS Code)	1	0	0
SSL Certificate	1 Year	5,000	5,000
Payment Gateway Setup	1	10,000	10,000

**Total Software Costs: 15,000 BDT**

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### **6.3 Other Costs**

These costs cover miscellaneous expenses such as personnel, training, and hosting.

<b>Item</b>	<b>Quantity</b>	<b>Unit Cost (BDT)</b>	<b>Total Cost (BDT)</b>
Developer Salaries	3 Months	50,000/month	150,000
Domain Registration	1 Year	2,000	2,000
Web Hosting	1 Year	15,000	15,000
Miscellaneous (Stationery, etc.)	N/A	5,000	5,000

**Total Other Costs: 172,000 BDT**

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### **Total Project Cost**

The estimated total cost of the project is as follows:

- Hardware Costs: 190,000 BDT
- Software Costs: 15,000 BDT

- Other Costs: 172,000 BDT

**Grand Total: 377,000 BDT**

## Chapter 7: System Testing

### ***7.1 System Testing Introduction***

System testing is a critical phase in the software development lifecycle where the entire system is evaluated as a whole. This ensures that all components work together seamlessly and meet the specified requirements. For the Dipok Driving School system, system testing focuses on validating functional and non-functional requirements, including usability, performance, and security.

**The primary goals of system testing are:**

To identify and resolve defects before deployment.

To ensure the system delivers the expected results under various scenarios.

To verify that the system is user-friendly and meets stakeholder expectations.

### ***7.2 Test Plan***

The test plan outlines the approach, scope, resources, and schedule for testing the Dipok Driving School system.

#### ***Test Objectives***

Verify the functionality of user registration, login, and booking systems.

Validate trainer schedule management and session feedback mechanisms.

Ensure admin functionalities, such as report generation and user management, operate correctly.

Assess the system's performance under different loads.

#### ***Testing Tools***

**Manual Testing:** Used for exploratory and usability testing.

**Automation Tools:** Selenium for regression testing and JMeter for performance testing.

### ***Test Scenarios and Cases***

#### ***Functional Testing:***

Verify the user registration process with valid and invalid data.

Check session booking for conflicts or overlapping schedules.

Test secure payment integration for various payment methods.

#### ***Performance Testing:***

Assess system responsiveness with 100, 500, and 1,000 simultaneous users.

#### ***Security Testing:***

Test data encryption during user login and payment transactions.

Perform penetration testing to detect vulnerabilities.

### ***Test Environment:***

**Hardware:** Standard testing machines meeting client hardware requirements.

**Software:** WAMP server environment with a staging database.

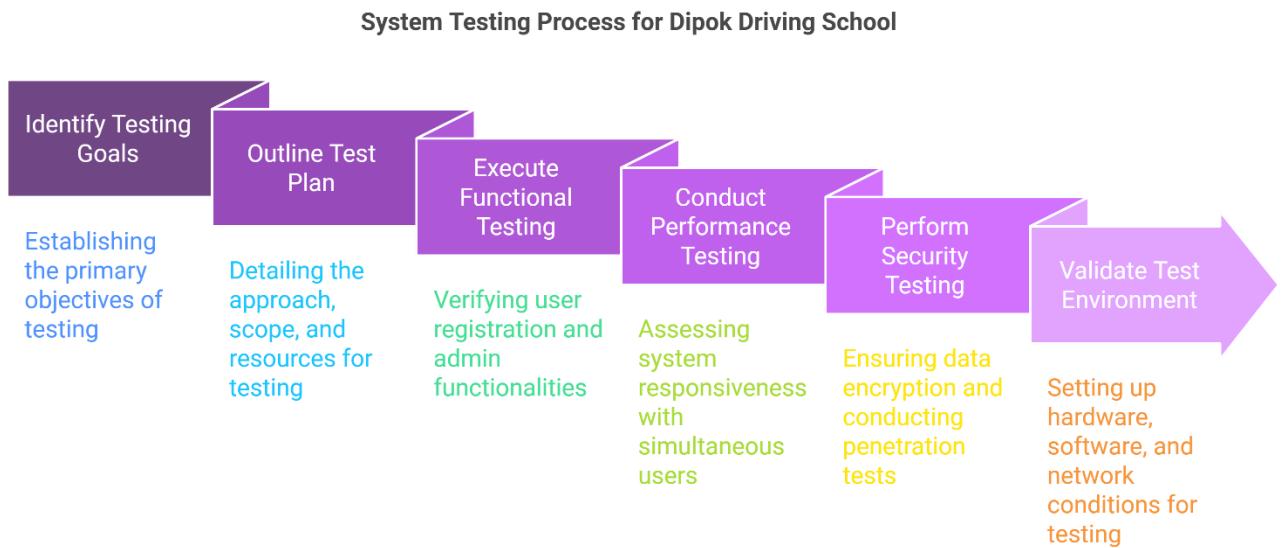
**Network:** Simulated network conditions to test performance and security under different bandwidths.

### ***Test Schedule:***

Week 1: Functional testing of user and admin modules.

Week 2: Performance and load testing.

Week 3: Security Testing and Final Validation



## Chapter 8: Conclusion and Upcoming Features

### 8.1 Conclusion

The Dipok Driving School project has been meticulously designed and developed to address the needs of learners, trainers, and administrators in managing driving sessions effectively. By integrating modern technology, the system ensures seamless user registration, session scheduling, payment processing, and feedback collection. The Agile development model allowed for incremental improvements, ensuring that the system meets user requirements while being adaptable to future enhancements.

This project exemplifies how technology can revolutionize traditional driving school management, making it more efficient and user-friendly. The comprehensive features, coupled with an intuitive interface, provide a hassle-free experience for all stakeholders.

### 8.2 Upcoming Features

The following features are planned for future iterations to enhance the system's functionality:

***Mobile Application:***

Develop a mobile app for Android and iOS platforms to allow users to book sessions and make payments on the go.

***Real-Time Notifications:***

Implement push notifications for session reminders, trainer updates, and payment confirmations.

***Advanced Reporting Tools:***

Introduce analytics dashboards for trainers and admins to monitor performance metrics, session statistics, and user feedback trends.

***Integration with Navigation Systems:***

Provide integrated maps for trainers and learners to locate driving session locations easily.

***Gamification for Learners:***

Add achievements and progress tracking for learners, motivating them to complete their sessions effectively.

***Multi-Language Support:***

Expand language options to make the system accessible to a broader user base.

***Automated Attendance Tracking:***

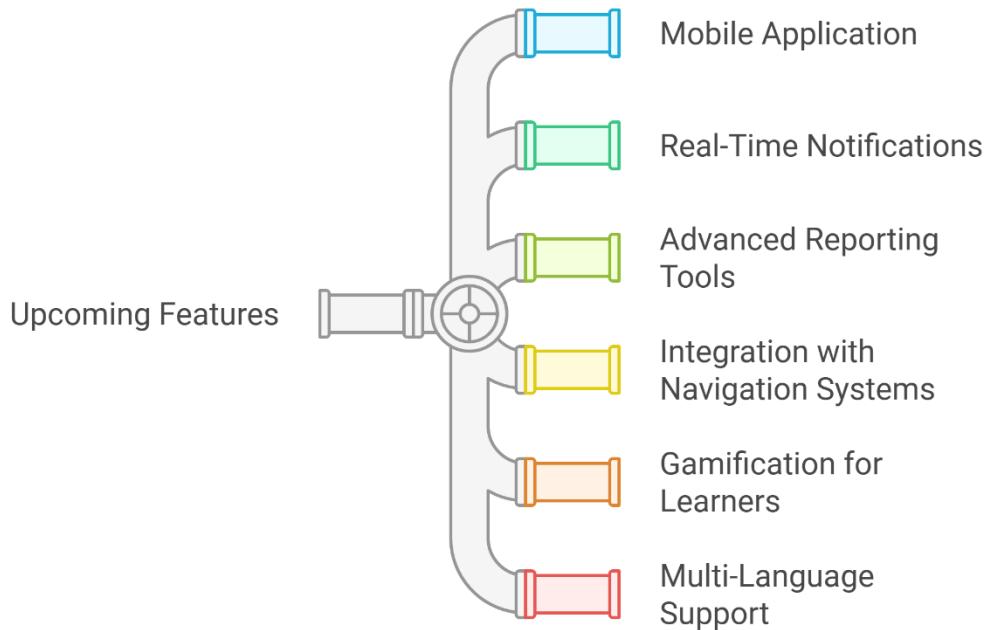
Implement a system to track attendance using QR codes or biometric authentication during driving sessions.

***AI-Powered Trainer Matching:***

Use AI algorithms to recommend trainers to users based on availability, proximity, and user preferences.

These features aim to elevate the Dipok Driving School system's usability, ensuring that it remains competitive and continues to meet the evolving needs of its users.

## Enhancing System Functionality with Future Features



## Chapter 9: Project Screenshots

### Dipok Driving School

Home    Select Course    Profile    Login/SignUp    More

## Contact Us

If you have any questions or need assistance, please reach out to us using the information below or fill out the contact form.

**Contact Information**  
Phone: +8801580311881  
Email: 22203174@iubat.edu  
Address: 123 Driving St., Dhaka, Bangladesh

Activate Windows  
Go to Settings to activate Windows.  
Inspired by Puja Dey, Lecturer at IUBAT

### Dipok Driving School

Home    Select Course    Profile    Login/SignUp    More

## About Us

At Dipok Driving School, we are dedicated to providing high-quality driving education to our students. Our mission is to empower new drivers with the skills, knowledge, and confidence needed to drive safely and responsibly on the roads.

### Our Mission

We aim to offer comprehensive driving lessons that prioritize safety, discipline, and skill development. Our experienced trainers and structured courses are designed to make learning enjoyable and effective for drivers of all levels.

### Meet Our Team

Our team comprises certified driving instructors with years of experience in teaching safe driving practices. They are patient, professional, and committed to helping you become a confident driver.

Activate Windows  
Go to Settings to activate Windows.  
Inspired by Puja Dey, Lecturer at IUBAT

**Rate a Trainer****Choose Trainer:****Rating (1-5):****Submit Rating****What Each Rating Means:**

5: Excellent

4: Better

3: Good

2: Not Good

1: Worst

Activate Windows

Go to Settings to activate Windows.  
Inspired by Puja Dey, Lecturer at IUBAT

Developed By-

Shah Mohammad Rizvi

More

**My Progress**

Course	Progress	Status
Basic Driving Course	50%	In Progress
Advanced Driving Techniques	100%	Completed

Activate Windows

Go to Settings to activate Windows.

## Welcome, Shah Mohammad Rizvi

Username: smri29

Email: smrizvi.i29@gmail.com

Reset Password

Activate Windows  
Go to Settings to activate Windows.

## Create Your Account

**Full Name:**

Enter your full name

**Username:**

Enter your username

**Email:**

Enter your email

**Password:**

Enter your password

**Sign Up**

Activate Windows

Go to Settings to activate Windows.

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**Login to Your Account**

Username:

smri29

Password:

.....

**Login**Don't have an account? [Sign Up here](#)

Developed By-

Shah Mohammad Rizvi

Activate Windows

Go to Settings to activate Windows.

Inspired by Puja Dey, Lecturer at IUBAT

**Choose Your Driving Course**

Select the course that fits your needs and start your driving journey with us!

**Beginner Driving  
Course**

Comprehensive training for first-time drivers, covering traffic rules, vehicle controls, and road safety.

Tk 15,000 | \$150

**Enroll Now****Advanced Driving  
Course**

Specialized programs for experienced drivers seeking to enhance their skills, such as highway driving or defensive driving techniques.

Tk 20,000 | \$200

**Enroll Now****Driving License  
Assistance**

Guidance through the driving license application process, including theoretical and practical test preparation.

Tk 10,000 | \$100

**Enroll Now**

Developed By-

Shah Mohammad Rizvi

Activate Windows

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## Welcome to Dipok Driving School

Your journey to safe and skilled driving begins here!



Activate Windows

Go to Settings to activate Windows.

Inspired by Puja Dey, Lecturer at IUBAT

Developed By-

Shah Mohammad Rizvi

## DDS Admin Panel

[Dashboard](#)[Profile](#)[Manage](#)[Reports](#)[More](#)[Manage Users](#)[Manage Trainers](#)[Logout](#)

## Courses

ID	Name	Description	Duration	Price	Actions
101	Beginner Driving Course	Comprehensive training for first-time drivers, covering traffic rules, vehicle controls, and road safety.	6 months	15000.00	<a href="#">Edit   Delete</a>
201	Advanced Driving Course	Specialized programs for experienced drivers seeking to enhance their skills, such as highway driving or defensive driving techniques.	3 months	20000.00	<a href="#">Edit   Delete</a>
881	Driving License Assistance	Guidance through the driving license application process, including theoretical and practical test preparation.	3 months	10000.00	<a href="#">Edit   Delete</a>

## Welcome, Shah Mohammad Rizvi

**1**

Registered Users

**1**

Trainers

**3**

Courses

**0**

Feedbacks

[Manage Users](#)[Manage Trainers](#)[Manage Courses](#)[View Feedback](#)[View Reports](#)

### Admin Login

Username:

Password:

[Login](#)

## Chpter 10: Informtion References

### Bibliography

#### 1. Books and Articles

- Pressman, R. S. (2014). \*Software Engineering: A Practitioner's Approach\* (7th Edition). McGraw-Hill Education.
- Sommerville, I. (2015). \*Software Engineering\* (10th Edition). Pearson.

#### 2. Web Resources

- W3Schools. (n.d.). SQL CREATE TABLE Statement. Retrieved from [https://www.w3schools.com](https://www.w3schools.com)
- GeeksforGeeks. (n.d.). Database Normalization in SQL. Retrieved from [https://www.geeksforgeeks.org](https://www.geeksforgeeks.org)
- MySQL Documentation. (n.d.). The MySQL 8.0 Reference Manual. Retrieved from [https://dev.mysql.com/doc/](https://dev.mysql.com/doc/)

#### 3. Tools and Platforms

- Google Colab: Utilized for data analysis and machine learning tasks.
- WampServer: Used as the local development environment for database management and testing.

#### 4. Datasets

- None applicable directly to the database structure, as it was designed based on system requirements.

#### 5. Personal Communication

- Faculty Member: Puja Dey (Lecturer, Dept. CSE, IUBAT) for project guidance and feedback.