ABSTRACT

Logistics is a comprehensive web-based platform developed to streamline and digitalize the process of managing goods transportation between customers and truck owners. The project aims to bridge the communication gap and reduce manual inefficiencies in the logistics sector. By using PHP for the front-end and MySQL for the backend, the system enables seamless coordination, transparency, and real-time management of consignments. Customers can post orders, truck owners can accept jobs according to their convenience, and administrators can monitor all activities from a centralized dashboard. The system reduces paperwork, ensures secure transactions, and enhances operational efficiency.

PROJECT MODULE DESCRIPTION

1. **Authentication Module**
This module manages secure login and registration for Admins, Truck Owners, and Customers. It uses encrypted credentials and role-based access control to ensure system security.

2. **Customer Module**
Customers can register, create transport requests, view truck responses, track deliveries, and make secure payments online. It simplifies the process of booking logistics services.

3. **Truck Owner Module**
Truck owners can register vehicles, view transport requests, send quotations, accept consignments, and update order status during transit.

4. **Admin Module**
The admin oversees the entire system, verifies user accounts, manages data records, and generates reports on daily activities and financial summaries.

SYSTEM STUDY

The system replaces the traditional manual logistics management with an automated web-based solution. In the existing system, customers rely heavily on brokers or agencies, leading to inconsistent pricing, paperwork, and delays. The proposed system offers direct digital interaction between customers and truck owners through an easy-to-use web interface hosted on a WAMP server.

SOFTWARE REQUIREMENTS

- Front End: PHP
- Back End: MySQL
- Web Server: WAMP Server
- Operating System: Windows 11

HARDWARE REQUIREMENTS

- Processor: Intel i5 or higher
- RAM: 4 GB minimum
- Hard Disk: 1 TB
- Monitor: 15.6” Display

SYSTEM DESIGN

The system follows a three-tier architecture:
1. Presentation Layer – User Interface (built with PHP and HTML)
2. Business Logic Layer – Handles data validation and order management
3. Database Layer – Stores customer, truck, and order data in MySQL

UML DIAGRAMS (Placeholders)

- Use Case Diagram (Figure 1)
- Activity Diagram (Figure 2)
- Sequence Diagram (Figure 3)
- Data Flow Diagram (Figure 4)

IMPLEMENTATION

The system is implemented using PHP integrated with MySQL on a WAMP environment. The front-end interfaces are designed for simplicity, while backend scripts handle database interactions and session management securely.

CONCLUSION

The **Logistics** project provides a cost-effective, user-friendly, and efficient digital solution for managing transportation logistics. It enhances communication between customers and truck owners, minimizes paperwork, and ensures transparent and secure operations.

REFERENCES

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