JAVA Haulage and Trucking System



Faculty of Engineering and Computing (FENC) School of Computing and Information Technology (SCIT) Advanced Programming (CIT3009)

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User Manual and Documentation

Submitted in Partial Fulfillment of the Requirements for the

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School of Computing and Information Technology

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Introduction

Welcome to the comprehensive user manual for the JAVA Haulage and Trucking (JHT) System. This guide is designed to provide detailed instructions for the effective use of the JHT system, enabling the JHT team to manage operations with increased efficiency and accuracy.

System Overview

Purpose

The JHT System digitalizes the previously manual, paper-based operations of the JAVA Haulage and Trucking company. It provides functionalities for managing customer accounts, orders, payroll, and generating reports, all aimed at streamlining company operations across Jamaica.

Key Features

- Real-time Operations Management: Supports simultaneous operations across multiple locations.
- User Management: Manages staff and customer profiles comprehensively.
- Order and Trip Management: Automates the order processing with integrated invoicing and rate calculation.
- Payroll System: Simplifies payroll processing with automatic calculations.
- Dynamic Reporting: Generates customizable reports for strategic insights.
- Route and Rate Optimization: Facilitates trip bookings with an easy-to-use route and rate management module.

Minimum System Requirements

For Windows Client Machines

Operating System: Windows 10 (64-bit) or later

Processor: Intel Core i3 or equivalent AMD processor, 2.0 GHz or faster

Memory: 4 GB RAM minimum (8 GB recommended)

Storage: At least 1 GB of free disk space for installation and additional space for data

Network: Broadband Internet connection for initial setup and updates

Java Runtime Environment (JRE): Version 8 or later

For Windows Server Machines

Operating System: Windows Server 2016 or later

Processor: 2.4 GHz 64-bit processor or faster

Memory: 8 GB RAM minimum (16 GB recommended)

Storage: At least 10 GB of free disk space for the server application, database, and logs

Network: Gigabit Ethernet connection (10/100/1000baseT) for local network connectivity

Java Runtime Environment (JRE): Version 8 or later

Database: Relational database management system (RDBMS) compatible with the server

application

Installation Guide

Server Installation

- 1. Prepare the Server Machine: Ensure the server machine meets the minimum requirements and has network connectivity.
- 2. Install the Server Application: Run the server application installer and follow the on-screen instructions.
- 3. Database Setup: Configure the relational database system and connect it to the server application.

Client Installation

- 1. Prepare Client Machines: Verify that each client machine meets the minimum requirements.
- 2. Install Client Application: Execute the client application installer on each machine, following the instructions provided.

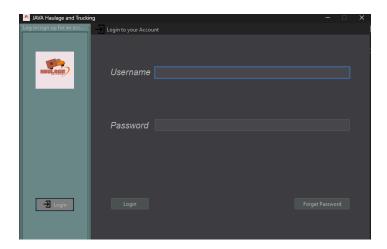
User Guide

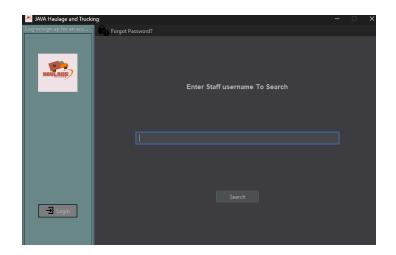
Logging In

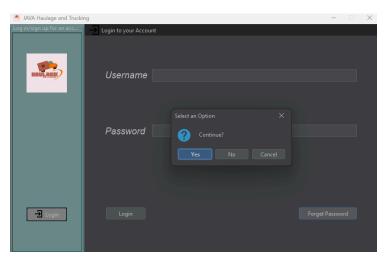
Start the application and log in using the credentials provided by your system administrator.



Enter Username and Password.





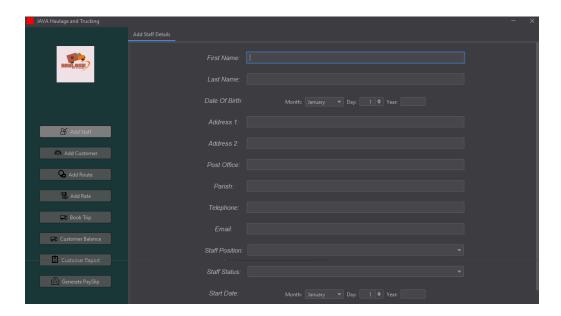


Managing Users

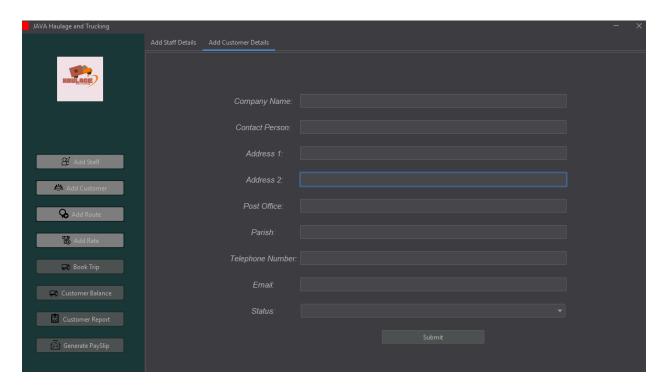
Adding a New User Profile

- 1. Navigate to the 'User Management' module.
- 2. Fill in the user's details in the provided fields.
- 3. Click 'Save' to create the new profile.

Enter a staff record:



Enter a customer record:



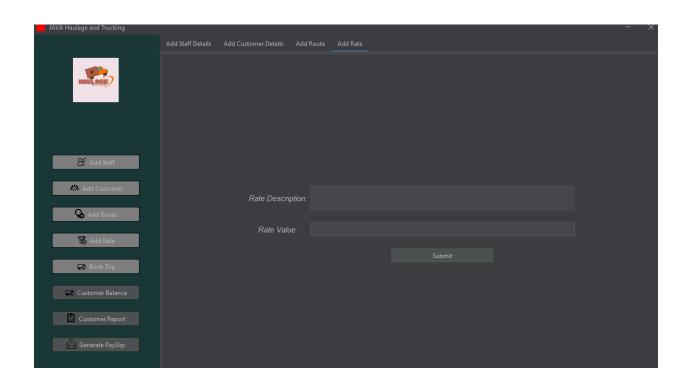
Managing Orders and Trips

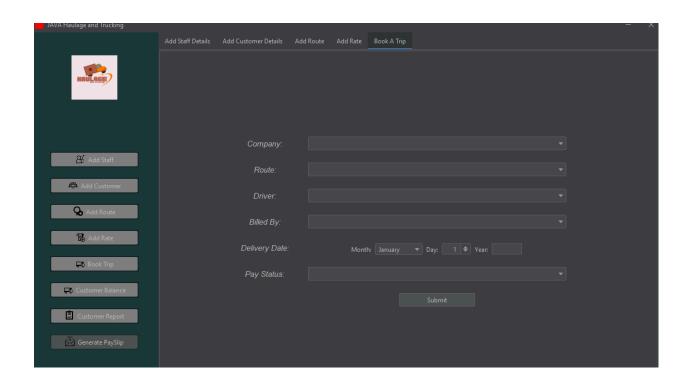
Creating an Order

- 1. Go to the 'Orders' module.
- 2. Input the order details, including selecting the route for auto rate calculation.
- 3. Confirm and save the order.

JAVA Haulage and Trucking			- ×
	Add Staff Details Add Customer Details Add	Route	
HAUL 9GE	Source:		
		Source Address	
	Address 1:		
	Address 2:		
Add Staff	Address 2.		
d⊜ L Add Customer	Post Office:		
	Parish:		
Add Route	Paristi.		
Add Rate		Destination Address	
A TOTAL MARKET	Address 1:		
₽ \$ Book Trip	Address 1:		
Customer Balance	Address 2:		
- Costonia balance	D4 Off		
Customer Report	Post Office:		
Generate PaySlip	Parish:		
ocherace rayship		RATE	

	Destination Address	
Address 1:		
Address 2:		
Post Office:		
Parish:		
	RATE	
Rate Description:		
Rate Value:		

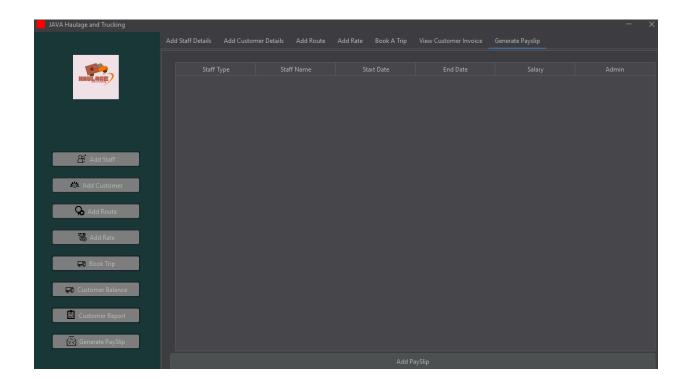


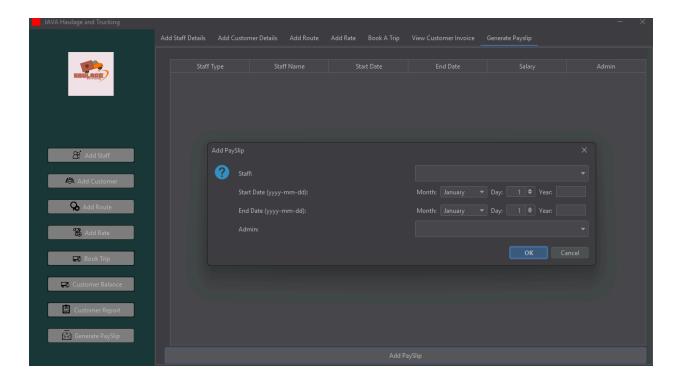


Payroll Management

Generating Payslips

- 1. Access the 'Payroll' section.
- 2. Choose the period and employees.
- 3. Review and finalize payroll calculations.

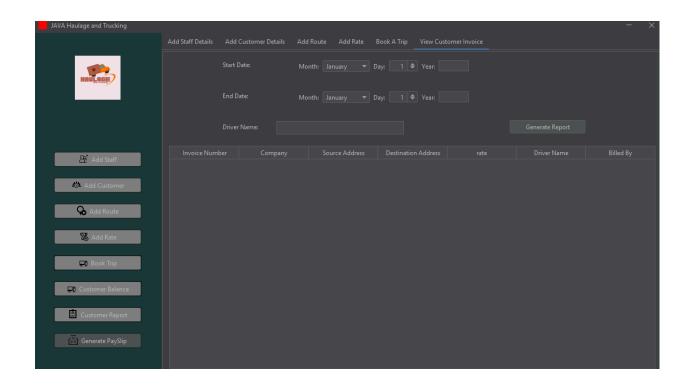




Reporting

Custom Report Generation

- 1. Open the 'Reports' module.
- 2. Set your criteria for the report.
- 3. Generate and review the report.



Maintenance and Troubleshooting

Regular Maintenance

Data Backups: Regularly schedule database backups to prevent data loss.

Updates: Regularly check for and apply system and software updates to ensure optimal performance and security.

Troubleshooting

Consult the help documentation for troubleshooting tips.

Use the activity logs to diagnose and understand system behavior.

Support

Contact your system administrator or IT support team for assistance beyond this manual.

By following this user manual, you will be able to navigate and utilize the JAVA Haulage and Trucking System effectively, leveraging its full suite of features for the betterment of JHT operations.