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<u>Instructions Deliveries Module</u>

System Overview

The Shipping and Delivery Management System designed to help businesses manage their delivery operations. The system allows users to:

- Manage drivers, trucks, locations, and shipping zones

- Create and track deliveries

- Handle storage alerts for low-stock items

- View documentation and reports

Getting Started

1. **Run the application**

   o In IntelliJ IDEA, locate the Main.java file in the Presentation package

   o Right-click on Main.java and select "Run 'Main.main()'"

2. **Login to the system**

   o When prompted, enter the password: 1

3. **Initialize the system with base data**

   o From the main menu, select option 13 to upload base info

System Features

Managing Drivers

Add Driver (Option 3)

- Enter Driver ID (need to be distinct from ids that known to the system)

- Enter Driver Name (required)

- Enter number of licenses (non-negative integer)

- Enter each license number as prompted

Update/Delete Driver (Option 4)

- Enter Driver ID to modify

- Choose between:

   o Delete driver (Option 1)

   o Change license list (Option 2)

- Delete license (Sub-option 1)
- Add license (Sub-option 2)

Managing Trucks

Add Truck (Option 7)

- Enter Truck ID (unique identifier)
- Enter Truck Type (integer)
- Enter Truck Weight (empty weight)
- Enter Max Weight (maximum carrying capacity)

Delete Truck (Option 8)

- Enter Truck ID to remove

Managing Locations

Add Location (Option 10)

- Enter Contact Name
- Enter Contact Number
- Enter Address (required, must be unique)
- Enter Shipping Zone (must be an existing zone)

Delete Location (Option 11)

- Enter Address of location to remove

Managing Shipping Zones

Add Shipment Zone (Option 5)

- Enter Shipment zone name (required)
- Choose rank (integer value, determines priority)

Update/Delete Shipment Zone (Option 6)

- Enter Zone name to modify
- Choose between:
  - Delete zone (Option 1)
  - Change rank (Option 2)

Creating and Managing Deliveries

Add Delivery (Option 1)

1. Enter delivery details:

   o Delivery date (format: dd/MM/yyyy)

   o Delivery hour (format: HH)

   o Truck ID (must be available)

   o Driver ID (must be available and have proper license)

2. Select route:

   o Choose origin from known locations

   o Add one or more destinations from known locations

3. Handle weight validation:

   o If weight exceeds truck capacity, choose to:

      ▪ Change truck (Option 1)

      ▪ Remove items (Option 2)

4. System will:

   o Sort route according to zones

   o Generate distinct document ID

   o Display document details

End Delivery (Option 12)

- Select the document ID of the delivery to end

- System will mark driver and truck as available for new deliveries

Handling Storage Alerts

Got Storage Alert (Option 2)

- Enter the name of the item that ran out

- System sets Headquarters as origin

- Add destinations that need the item

- Specify amount of item needed

- System will transition to delivery planning

Viewing Documentation

View Documentation (Option 9)

- Select document ID from the list of existing deliveries

- System will display complete delivery details