

System Activation Instructions

When the system is launched, you are presented with a menu of options, and a list of pregenerated sites which can be used as origins and destinations of deliveries.

```
C:\Users\peleg\.jdk\openjdk-17.0.1\bin\java.exe ...
```

```
Welcome to the delivery manager!
```

```
The following sites were auto generated and can be used for this demo:
```

```
0- Site{name='Site A'}
1- Site{name='Site B'}
2- Site{name='Site C'}
3- Site{name='Site D'}
4- Site{name='Site E'}
5- Site{name='Site F'}
6- Site{name='Site G'}
7- Site{name='Site H'}
8- Site{name='Site I'}
9- Site{name='Site J'}
```

```
In order to launch a delivery, you should first provide details.
```

```
A delivery consists of a list of delivery stops
```

```
Each delivery stop contains an origin, a destination and a list of items to deliver
```

```
Please enter the number of the option you would like to choose:
```

```
1. Add a delivery stop
2. Remove a delivery stop
3. Execute a delivery
4. Exit
```

```
Your choice:
```

In order to launch a delivery you must first add a 'delivery stop'

```
Your choice: 1
```

```
Here you can add a delivery stop to the pool of visits to be made
```

```
Would you like to add a delivery stop? (Y/N)
```

```
y
```

```
Please enter the origin details
```

```
Please enter the index (shown on top) of the site you would like to choose:
```

```
|
```

To add a 'delivery stop' you must choose an origin and a destination by choosing their index (0-9) from the list presented on the very top of the program.

The program will then ask you if the delivery to this site needs to be refrigerated, and then ask you to enter details regarding the items you wish to deliver:

```
Your choice: 1
Here you can add a delivery stop to the pool of visits to be made
Would you like to add a delivery stop? (Y/N)
y
Please enter the origin details
Please enter the index (shown on top) of the site you would like to choose:
4

Origin is set! Please enter the details about the destinations
Please enter the destination details
Please enter the index (shown on top) of the site you would like to choose:
6
do you need a regular(1) or a refrigerated(2) truck? (1/2)
2
Would you like to add an item to deliver to Site G? (Y/N)
```

You can add items by typing their name, followed by their quantity.

When you finish adding items to this stop you can reply with 'N' (for no) and the program will ask if you wish to add more stops.

```
do you need a regular(1) or a refrigerated(2) truck? (1/2)
2
Would you like to add an item to deliver to Site G? (Y/N)
y
Please enter the item name:
eggs
Please enter the quantity:
120
Would you like to add an item to deliver to Site G? (Y/N)
y
Please enter the item name:
milk
Please enter the quantity:
500
Would you like to add an item to deliver to Site G? (Y/N)
n
Delivery added successfully. The delivery ID is 1
Would you like to add a delivery stop? (Y/N)
```

Hitting 'Y' will allow you to add more stops (with a possibly different origin and destination) and hitting 'N' will take you back to the main menu.

Option 2 in the main menu allows you to cancel a stop if you no longer wish to ship to this site. To remove a stop enter its ID, which can be seen in the list below as 'ShipmentInstanceID=1'

```
Delivery added successfully. The delivery ID is 1
Would you like to add a delivery stop? (Y/N)
n

Please enter the number of the option you would like to choose:
1. Add a delivery stop
2. Remove a delivery stop
3. Execute a delivery
4. Exit
Your choice: 2
Note: This should only be used for stops that you added by mistake, it is not related to the overweight truck requirement
The following stops are available:
DeliveryStop{shipmentInstanceID=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site G'}, truckTypeRequired- Refrigerated}

Enter the ID of the stop you want to remove:
```

Adding a valid id will remove the stop, and an invalid will take you back to the main menu.

To launch a delivery you can choose option 3. The system will sort the deliveries and group together deliveries which have the same origin and the same shipment area (hidden from UI).

After sorting the deliveries into group it will ask you if you wish to execute – reply with the ID according to the FormID

```
Your choice: 2
Note: This should only be used for stops that you added by mistake, it is not related to the overweight truck requirement
The following stops are available:
DeliveryStop{shipmentInstanceID=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site G'}, truckTypeRequired- Refrigerated}

Enter the ID of the stop you want to remove:
2
An error occurred- Index 2 out of bounds for length 1, please try again

Please enter the number of the option you would like to choose:
1. Add a delivery stop
2. Remove a delivery stop
3. Execute a delivery
4. Exit
Your choice: 3
{Zone 3=[DeliveryStop{shipmentInstanceID=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site G'}, truckTypeRequired- Refr
The following delivery forms were created:
DeliveryForm{formID=0, dispatchTime=2023-04-10 11:37:44.822, originSite=Site{name='Site E'}, destinationSitesToVisit=[DeliveryStop{shipmentInstanceID=1, deliveryItems={eggs: 12
Enter the ID of the delivery form you want to execute:
0
```

After launching a delivery the truck will have its weight measured at the origin and at every stop. As the user you are responsible for simulating the weighing at this point.

```
Your choice: 3
{Zone 3=[DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}]}]
The following delivery forms were created:
DeliveryForm{formId=0, dispatchTime=2023-04-10 11:37:44.822, originSite=Site{name='Site E'}, destinationSitesToVisit=[DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}]}
Enter the ID of the delivery form you want to execute:
0
What's the current weight of the truck?
60
Truck is overweight for delivery DeliveryForm{formId=0, dispatchTime=2023-04-10 11:37:44.822, originSite=Site{name='Site E'}, destinationSitesToVisit=[DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}]}
The truck is overloaded, and we couldn't arrange a larger truck.
These are the stops you have to visit:
Stop number 1: DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}
What would you like to do?
1. Remove stops
2. Cancel delivery
3. Reweigh truck
```

Enter the weight in tons. The system is simulated to have trucks capable of carrying up to 12 tons. If the truck is too heavy at this point the system will alert you. The system will look for another truck, and if it can't, you'd have to choose the way of action. You must then choose between 3 actions.

Choosing option 1 will ask you to choose a stop by ID as before and return that stop to the pool of stops to be executed.

```
Enter the ID of the delivery form you want to execute:
0
What's the current weight of the truck?
60
Truck is overweight for delivery DeliveryForm{formId=0, dispatchTime=2023-04-10 11:37:44.822, originSite=Site{name='Site E'}, destinationSitesToVisit=[DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}]}
The truck is overloaded, and we couldn't arrange a larger truck.
These are the stops you have to visit:
Stop number 1: DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}
What would you like to do?
1. Remove stops
2. Cancel delivery
3. Reweigh truck
1
The truck is overloaded, and we couldn't arrange a larger truck. You have to remove some stops.
These are the stops you have to visit:
Stop number 1: DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}
Which stops would you like to remove?
1
```

Option 2 will return all the stops to the pool of stops to be executed, and option 3 will allow you to re-enter the weight.

After choosing option 1 or 2 you'll be returned to the main menu where you can re-launch that delivery.

```
Please enter the number of the option you would like to choose:
1. Add a delivery stop
2. Remove a delivery stop
3. Execute a delivery
4. Exit
Your choice: 3
{Zone 3=[DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}]}
The following delivery forms were created:
DeliveryForm{formId=1, dispatchTime=2023-04-10 11:53:29.766, originSite=Site{name='Site E'}, destinationSitesToVisit=[DeliveryStop{shipmentInstanceId=1, deliveryItems={eggs: 120, milk: 500}, from origin- Site{name='Site E'}, to destination- Site{name='Site F'}}]}
Enter the ID of the delivery form you want to execute:
```