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System Manual:

The following document gives a short introduction for the system.

Part I: CLI introduction:

The CLI of the system consists of 3 sub-menus and a main menu.

1. The main menu: (Figure 1)

The main menu offers to choose between 4 different types of employees (we were instructed not to support login/logout of employees by Rami on the course website). Once an option is chosen, a new menu is prompted, which displays all the options an employee of a certain type can do in the system.

```
Welcome to the Main menu
Please choose a type of employee:
Please choose an option
1. HR Manager
2. Storage Manager
3. Logistic Manager
4. Store Manager
5. Exit
```

Figure 1: (Main menu)

2. HR Manager:

HR Manager can manage employees, their shifts, etc (similar to previous assignments). Simply follow the instructions and insert the input specified.

```
1) Add/Remove Employee
2) Add/Remove Driver Employee
3) Edit employee details
4) Add/Remove available shift
5) Add/Remove skills
6) Add/Remove Employee to shift
7) Add/Remove Constraint To Existing shift - Only allowed for HRManager
8) Add/Remove Shift - Only allowed for HRManager
9) Print Schedule
10) Print Employee Personal Details
11) Exit
```

Figure 2: (HR Manager menu)

3. Storage Manager:

A storage manager can manage suppliers, inventory and orders (elaborated below).

4. Logistic Manager:

A logistic manager can manage transports, and all the logistics included with it (sites, trucks, etc). Simply follow the instructions and insert the specified input.

NOTES:

- a. The 9th option is for marking a transport that arrived to the store. Once a transport has arrived to the store, a storage worker can now unpack the transport contents (i.e orders) and update the inventory quantities.
- b. You could use the 3rd option of adding a transport, however it's not recommended, simply letting the system find a transport for an order by itself is the better way around.

```
Enter your choice:
Welcome to the Logistics Manager
Please choose an option
1. Add site
2. Add truck
3. Add transport
4. Add section
5. Get all trucks
6. Get all sites
7. Get all sections
8. Get all transports
9. Mark transport as arrived to store
10. Go back
```

Figure 3: (Logistic Manager menu)

5. Store Manager:

A store manager can manage suppliers (elaborated below) and view all kinds of reports regarding the store.

```
Please choose an option
1. Get weekly inventory report
2. Show faulty items
3. Show exp items
4. Show minimum amount items
5. Show Sales Report
6. Back to main menu
```

Figure 4: (Reports a store manager can produce and view)

6. Managing Suppliers menu:

This menu has 13 options for the user to choose, each option is shortly described. To choose the desired option, simply type in the respective number.

Once an option was chosen, messages will start prompting, follow the instructions and type in your input.

The 14th option navigates back to the main menu.

NOTES:

- a. You cannot delete an item from a supplier's contract as long as there is an order waiting for delivery from the given supplier.
- b. You can only add items that are items that the store sells to a certain supplier (there's no sense in adding items to a supplier's catalogue if the items will never be ordered – we're not interested in those).

```
Welcome to the Suppliers menu
Please choose an option
1. Add supplier
2. Delete supplier
3. View supplier's details
4. Get all suppliers in the system
5. Update a supplier's shipping policy
6. Update supplier's supplying days
7. Add a quantity agreement to a supplier
8. Delete a quantity agreement from a supplier
9. Add an item to a supplier's contract
10. Delete an item from a supplier's contract
11. Add a discount to a specific product supplied by a supplier
12. Delete a discount from a specific product by a supplier
13. View supplier's catalogue
14. Go back to the main menu
```

Figure 5 (Manage Suppliers menu)

7. Manage Orders menu (Figure 3):

This sub-menu contains 9 options, as described above, simply type in the desired number and follow the instructions printed on the screen.

NOTES:

- a. First, you need to create an order, afterwards you can add items to it (you can browse a supplier's catalogue in the manage suppliers menu).
- b. You cannot re-order a non-fixed order.
- c. Once an order is delivered (5th option), you cannot edit its details (add products, etc). In addition, when receiving an order, it's possible to receive all of its contents, or just a partial of its contents (you'll be prompted with an appropriate message).
- d. Once a sale is made, and the item is considered low-quantity, the system automatically issues a new order.
- e. Once you're done adding items to your order, if the supplier that supplies this order has a self-pickup policy, then you have to click on the 9th option so the system will find a transportation within a week from the supplying day of the order, if none was found, the HR manager and the logistic manager should fix this.

```
Welcome to the Orders management
Please choose an option
1. Create an order
2. Re-order an existing order
3. Add an item to an order
4. View order details
5. Receive order from supplier
6. View all order by a given supplier
7. Cancel an order
8. Delete an item from an order
9. Find a transportation for an order
10. Go back to the main menu
```

Figure 6 (Manager Orders menu)

8. Item's menu – manage inventory:

This sub-menu contains 16 functions. All are elaborated in the figure on the right. Simply choose the number of the function and follow the instructions.

The 17th option navigates back to the main menu.

NOTES:

- a. Once this menu is launched from the main menu it executes a function that deletes all faulty/expired items from the system (and creates an order in case of a low-quantity item).
- b. You must add an item to a certain category, an item must belong to a certain category.

```
Please choose an option
1. Add item
2. Update item
3. Add category
4. Update category
5. Find item by location
6. Change alert time
7. Add category discount
8. Add item discount
9. Add sale
10. Get weekly inventory report
11. Show faulty items
12. Show exp items
13. Show minimum amount items
14. Show Sales Report
15. Delete item
16. Add Specific Item
17. Back to main menu
```

Figure 7 (Item's menu)

Part II: Data the database already contains:

For testing purposes and for system overview, there's a database.db file in the release doc, this database already includes some data for you to work with.

This database is connected with the system, so you only have to run the jar file from a folder both the database file and the jar file are in.

NOTE: No password and neither user details are needed to run the system (as we were instructed by Rami).

The following data is in the database (elaborating only important fields that manner to the implementation):

Suppliers:

There are 3 suppliers in the system: The butcher (ID 1, self pickup), Tnoova (ID 2, transport by supplier) and Zoglobeck (ID 3, transport by supplier).

<u>Categories</u>			
Name	ID	Father category	
General	1	none	
Diary	2	General	
Meat	3	General	

<u>Items</u>						
ID	Name	Min amount	Category belonging to	Alert time	Location	Available amount
1	Steak	100	3	2	1	200

2	Milk	100	2	2	2	200
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Contracts (items supplied by suppliers)				
Supplier	Price per unit	Catalogue id by supplier	Item from store	Discounts per quantity
The butcher	90.5	1	Steak	none
Zoglobeck	105.5	1	Steak	none
Tnoova	5.5	1	Milk	{ 1,000:5 }

Employees:

We have David Shumacher, with the ID of 111111111 which is a driver.

And we have Rami Levi with the ID of 222222222 which is a storage worker.

Shifts:

There's one morning shift on the 7th of July, both of the employees work on this shift.

There's another morning shift on the 16th of July, with only the driver working in it.

Sites:

We have one site, Tel Aviv.

Trucks:

We have 1 truck, with the plate number of 123456789

NOTES:

- There are no orders in the system, you can create some by yourself and see the discounts and how it operates!
- No sales are recorded as well. You can create some sales via the items menu.

- c. There are no transports in the system – if you wish you can create an order for a supplier with a self pickup policy and ask the system to find an appropriate transport for it.