

User's guide for Super-Lee's Deliveries and Employee

General starting instructions

To run the system, you will need to install java on your computer then do the following steps:

1. press windows key + r
2. type "cmd"
3. press 'enter'
4. type cd <path to the folder is installed>
5. press 'enter'
6. type adss2022_v03.jar
7. press 'enter'

Then the system will start, and the user will see the command line print this:



Inserting data

The system receives data in the following way:

1. The user is prompted to provide input from keyboard
2. The user prints the data using keyboard and presses "Enter"
3. If the data that the user provided is not valid the system will print the next message:
Error while getting input. For input string: "ih"
And after that the user will be asked to provide input once more.
4. If the data is valid the system will continue working

Providing date

In employee module all the dates must be provided in one of two ways - YYYY-MM-DD or YYYY-MM-DDTHH:MM:SS for example 2022-05-20 or 2022-05-20T06:55:30

Logging in

To log in, the user needs to provide his id number. If the id number is valid, the following will be printed:

```
|| WELCOME, Admin2 ||
----- Main Menu -----
+-----+
1 | Logout
2 | Manage Employees
3 | Manage Shifts
4 | Manage Qualifications
Please choose an option:
```

If the id number isn't valid, the user will receive the following message:

```
No employee with this id found.
Please enter your id to enter (or -1 to exit): |
```

Main menu options

1. Logout – the user logs out of the system so that another user could log in
2. Manage employees – enter the employee management menu
3. Manage shifts – enter the shift management menu
4. Manage qualification – enter the qualification management menu

Employee management

```
----- Manage Employees -----
+-----+
1 | Return
2 | Show Employee Information
3 | Add Employee
4 | Remove Employee
5 | Edit Employee
```

1. Return – return to the main menu

2. Show Employee Information – prints all the data about specific employee

```

|| Showing Information on bob ||

```

ID	Name	Salary	Work Starting Date
555	bob	10.0	2022-05-23

```

— Qualifications —
1

```

```

— Working Conditions —
hates to work
— no working hours —

```

```

|| Bank Account Details ||

```

Bank Id	Branch Id	Account Id	Bank Name	Branch Name	Account Name
1	1	1	bank	branch	bob

3. Add Employee – the system sends several queries to insert the data about the employee and after that prints the list of all employees. For example:

```

— Please enter the new employee's information —
ID number: 6543
Full Name: bob
Bank id: 5
Bank branch id: 5
Account id: 6
Bank name: bank
Bank branch name: bank
Account owner name: bob
Salary: 12
Enter work starting date in the next format yyyy-MM-dd:
2022-06-01
Additional working conditions information: asd
[SUCCESS]

```

ID	Name
1	Bob The Cashier
2	Alice The Warehouse Worker
3	Cat The Stock Clerk
4	Dan The Truck Driver
5	Manny The Manager
6	InManny The InManager
123	Admin2
555	bob
5555	Dan the Driver
6543	bob
580083434	Admin

4. Remove Employee – removing an employee – the user will be prompted to provide the ID number of an employee to remove from the system

5. Edit Employee – editing the data about an employee – the user will be prompted to choose what information to update and then to provide the ID number of an employee and new information

```
— Edit Employee —
+-----+
1 | Return
2 | Edit Name
3 | Edit Salary
4 | Edit bank account details
5 | Add Working Hour
6 | Remove Working Hour
7 | Add Qualification
8 | Remove Qualification

Please choose an option: 2
New Name: Bob
[SUCCESS]
```

Shift management

```
Please choose an option: 3
Enter branch id: 2

== Shifts for Branch #2 ==
=====
+-----+-----+-----+-----+-----+
|| Date || Time || Manager Id || Manager Name || Workers ||
+-----+-----+-----+-----+-----+

— Manage Shifts for Branch #2 —
+-----+
1 | Return
2 | Add Shift
3 | Remove Shift
4 | Add Worker to Shift
5 | Remove Worker from Shift
```

1. Return to main menu
2. Add shift – the user will be prompted to provide data about shift and choose an employee for each job that must be filled
3. Remove shift – the user is prompted to provide a shift date and type – Day or Night so that the shift will be deleted
4. Add worker to shift – the user id prompted to provide an id of a shift (date and type) an id of an employee and after that to choose which job the

employee will receive. Several jobs can be given, to stop adding the user should insert -1

5. Remove worker from shift - the user id prompted to provide an id of a shift (date and type) an id of an employee to remove from shift

Qualifications management

If the user chooses “Manage qualifications”(4) in the main menu a list of existing qualifications and permissions will be printed. After that the user will see the qualifications menu:

```
—— Manage Qualifications ——  
+  
1 | Return  
2 | Add Qualification  
3 | Remove Qualification  
4 | Add Permission  
5 | Remove Permission  
6 | Edit Qualification
```

1. Return – return to main menu
2. Add qualification – the user is prompted to provide a name of the new qualification. After inserting the name, the qualification gets added into the system

```
—— Manage Qualifications ——  
+  
1 | Return  
2 | Add Qualification  
3 | Remove Qualification  
4 | Add Permission  
5 | Remove Permission  
6 | Edit Qualification  
  
Please choose an option: 2  
New qualification name: mc  
[SUCCESS]
```

3. Remove qualification – the user is prompted to provide a name of the qualification. After inserting the name, the qualification gets deleted from the system
4. Add permission – the user is prompted to provide a name of the new permission. After inserting the name, the permission gets added into the system

5. Remove permission – the user is prompted to provide a name of the permission. After inserting the name, the permission gets deleted from the system
6. Edit qualification – the user is prompted to provide a name of the qualification. Then he needs to choose what permission to remove or add

```
Please choose an option: 6
Enter the name of the qualification you wish to edit: mc
— Editing mc —
+-----+
1 | Return
2 | Add Permission to Qualification
3 | Remove Permission from Qualification

Please choose an option:
```

```
Please choose an option: 2
Name of the permission to add: ManageShift
[SUCCESS]
```

Manager options:

```
|| WELCOME, Manny The Manager ||
----- Main Menu -----
+-----+
1 | Logout
2 | Edit working hours
3 | View Employees
4 | View Qualifications
5 | Open Delivery System
6 | Open Inventory System
```

Some users don't have permission to change some data, for example the branch manager (by default) can view all data but can change only vendor data.

Updating working hours

Every user can add or remove his preferred working hours:

```
----- Main Menu -----
+-----+
1 | Logout
2 | Edit working hours
3 | Open Delivery System
```

(Option 3 here)

After choosing this option the user will receive all data about themselves and be prompted to choose to add new working hours that they prefer of remove them:

ID	Name	Salary	Work Starting Date
7	LogManny The LogManager	0.0	2022-06-18

— Qualifications —

1	LogisticsManager
---	------------------

— Working Conditions —

[Empty]

— no working hours —

— null —

1 | Return
2 | Add Working Hour
3 | Remove Working Hour

Delivery system

General notes for delivery module:

- when selecting a number enter it without commas, make it not negative, and smaller than 2.1 billion
- the system doesn't manage drivers, 6 drivers are applied to the system
- after each option you pick up, remember to press enter to select it
- when picking up an illegal option the system will say *"You picked an illegal option, please try again"* and then do nothing

After choosing "open delivery system" in the main menu the delivery module main menu will be opened

```
### Welcome to "Super-Lee" deliveries! ###

### Main Menu ###
Enter option number to execute the desirable operation:
  1. Go to Delivery Menu
  2. Go to Site menu
  3. Go to Truck Menu
  4. Exit
```

To select the option, you will want you will need to enter the following numbers in this menu a number from 1 to 4 and then press enter to confirm **like any other action in the program**, in case of wrong input the following message will pop out

```
You picked an illegal option, please try again
```

If you select one of the options, you will enter the desired menu or exit the delivery module

Deliveries

When opening the delivery menu, you will see 2 options for 2 types of deliveries

```
### Delivery Menu ###
Enter option number to execute the desirable operation:
  1. Go to Upcoming Deliveries Menu
  2. Go to Completed Deliveries Menu
  3. Return to Main Menu
```

The first is for ongoing and planned deliveries, those can be altered, the second is for completed deliveries, those are the delivery records, you can't change them but you can still view them

```
### Upcoming Deliveries Menu ###
Enter option number to execute the desirable operation:
  1. View all upcoming deliveries
  2. Search an upcoming delivery
  3. Edit a delivery
  4. Delete an upcoming delivery
  5. Return to Delivery Menu
```

The first option shows you all deliveries, a delivery looks like this:

```
Delivery id: 3
  * Driver id: 4
  * Truck plate number: 1000001
  * Start time: 21-06-2022 12:00
  * End time: 21-06-2022 23:59
  * Origin Site Id: 1
  * Weight: 0
  * Destinations:
    ** Destination id: 0
      *** Items:
        **** Item name: Apple, Producer: Perot, Quantity: 70
        **** Item name: Milk, Producer: Tnuva, Quantity: 70
```

Notice the delivery id (מספר אסמכתא) that number will identify that delivery from others delivery, and it will not change

The second option will give you the option to search a particular delivery by the id, you will need to remember the id or search all of them manually to find it.

The option to delete delivery (option 4) will delete the delivery with its records.

Edit menu: option 3

When that option is selected, you will need to first choose the delivery that you want to edit by id and then the following menu will be opened with the delivery information on top of that.

```
Enter option number to execute the desirable operation:
1. Add a destination
2. Remove a destination
3. Remove an item from destination
4. Edit item quantity
5. Edit start Time
6. Edit End Time
7. Change driver
8. Change truck
9. Change origin site
10. Edit truck's weight
11. Complete the delivery
12. Return to Upcoming Delivery Menu
```

Option 1- Add a destination:

1. The system will present you with a list of super Lee's branches
2. Enter the site id of the site you want to add

Option 2 will remove a destination with selecting it by id, it will fail if you try to remove a destination that only it remains in the destination list (the destination list can't be empty) or if trying to delete the destination of SuperLee's main branch.

Option 3,4-Products can be removed and be changed by quantity. First enter item name and then the producer's name. In case of editing quantity, enter the new quantity.

Option 5,6- Editing delivery's start time/end time- enter the desirable date, use the format <dd-MM-yyyy HH:mm>. for example, if you would like to change The start time of a delivery to June 18, 2022 at 2:30pm- enter: 15-06-2022 14:30.

Option 7- To change the delivery's driver, enter the new driver's id.

Option 8- To change the delivery's truck, enter the new truck's plate number.

Option 9- To change the delivery's origin site, enter the new origin's site id.

After you weight the truck enter the weight result in "edit truck's weight" – option 10, it will not change the maximal truck weight but the actual weight, note that the **truck is weighted in kg**

Only after you weighted the truck you will be able to complete the delivery by selecting option 11, note that the delivery will be completed and therefore be moved to the archive and its edit will be disabled

Upon searching the archive (completed deliveries menu you will see the following options)

```
### Completed Deliveries Menu ###  
Enter option number to execute the desirable operation:  
  1. View delivery archive  
  2. Search a completed delivery  
  3. Return to Delivery Menu
```

It is much simpler than the upcoming delivery menu as you will be able to view the full archive or search for a particular delivery in the archive by id.

Sites

Upon opening the site menu, you will see the following options

```
### Site Menu ###  
Enter option number to execute the desirable operation:  
  1. Add a new site  
  2. Delete a site  
  3. Search a site  
  4. View all sites of a delivery zone  
  5. View all sites  
  6. Return to Main Menu
```

Option 1- adding a superLee's branch

Enter site's address, then the delivery zone, then the contact's phone number and then the contact's name, note that upon selecting the delivery zone you will see the following pop up

```
Enter option number to choose a delivery zone:  
  0. North  
  1. Center  
  2. South
```

To select the delivery zone, you want you will need to enter the number near that zone name and not the zone name itself (for selecting center enter 1)

When a delivery site is created the system will give it a unique id, and it will show a delivery site like that:

```
Address: Tel Aviv  
  * Id: 4  
  * Contact name: branch2  
  * Contact phone number: 054-0000004  
  * Delivery Zone: Center  
  * Type: Branch
```

Same as deliveries, you can view all or one site by searching it with id, in addition you can view all sites in particular delivery zone (option 5)

When deleting a site (by id selection) you will succeed only if there is no ongoing delivery from or to that site.

Trucks

When selecting the truck menu, you will see the following options

```
### Truck Menu ###  
Enter option number to execute the desirable operation:  
1. Add a new truck  
2. Edit a truck  
3. Delete a truck  
4. View all trucks  
5. Search a truck  
6. Return to Main Menu
```

When adding a truck, you will enter the plate number first (the plate number must be unique, no other truck is registered with the same plate number) and will have 7 to 8 digits. Then you will enter the truck's model, and then the truck's max weight in **kg**.

Same as sites, you can't delete a truck with an upcoming or an ongoing delivery

When editing a truck, you will pick up the plate number first and then you will see the following options

```
Enter option number to execute the desirable operation:  
1. Edit plate number  
2. Edit model  
3. Edit max weight  
4. Return to Truck Menu
```

The same rules apply to those options.

Inventory and supplier systems

By choosing "Open inventory system" the user will open the supplier + inventory menu

Suppliers

The program will print all the possible actions the user can do inside, example:

(0 - Exit, 1 - Create supplier, 2 - Remove Supplier, 3 - Get Supplier)

The program will wait for a number for the user to input, the number near the action represents the action itself.

(The input "16" – that is Load Test Data – is the loadData requested in the assignment and it adds a supplier with 2 items, one with a discount, to the system and makes an order with these items.)

After a number has been inputted, the program will ask the user for inputs by printing

"Enter *something*:"

The user should input the info requested by the program.

When making a new supplier, the user needs to input the items that the supplier can supply.

It's done by entering the item name, item price (when prompted) and this loop goes on until the user types "STOP" at the "Item name" field.

Same thing happens when the user inputs the discounts to said items.

It's done by entering the item ID, discount amount and item quantity (when prompted) and this loop goes on until the user types "STOP" at the "Item ID" field.

Similar thing happens with choosing delivery days (each number represents a day of the week – once again, the program will print the options) but instead of "STOP" the user should type "0" to stop the loop.

The presentation layer is written in such a way that is requesting the user to input info and printing the request so the user knows what to enter and shouldn't remember the exact sequence of inputs for each method.

Inventory

במערכת זו תחילה יש לבחור את מספר החנות בה המשתמש נמצא על מנת לקבל את המלאי המתאים לחנות של המשתמש. על מנת לבחור את החנות יש ללחוץ במקלדת את מספר החנות לדוגמה "1".

פעולות אפשריות לביצוע במערכת:

1. הוספת מוצר: על מנת להוסיף מוצר **חדש** לחנות (מוצר שלא קיים במערכת) יש להקיש במקלדת על הספרה "1" ולהקיש ENTER ולהזין את פרטי המוצר בפורמט הבא - product-name # producer # buying-price # selling-price # categories-[...] לדוגמה: Cottage 5% # Tnuva # 10.90 # 15.90 # Dairy,Milk,Size

2. הוספת מוצר לחנות/עדכון מוצר: על מנת להוסיף מוצר למלאי בחנות (מוצר שקיים במערכת) יש להקיש במקלדת על הספרה "2", להקיש ENTER ולהזין את פרטי המוצר בפורמט הבא:
id # quantity-in-store # quantity-in-warehouse # exp-date # locations:[place-aisle-shelf number]

ID - מספר המוצר אותו נרצה להוסיף למלאי, ניתן לראות את כל המוצרים בטבלה המופיעה לפני פקודת ההשמה

Quantity in store - מספר פרטי המוצר אשר הושמו במדפי החנות עצמה

Quantity in warehouse - מספר פרטי המוצר שהושמו במחסן

Locations - היכן ממוקמים פרטי המוצר - בחנות או במחסן, באיזה מדף ובאיזה מעבר, ניתן לרשום מספר מקומות ולהפריד בין המקומות על ידי שימוש בלחצן: "&"

"0 # 20 # 30 # 01/02/2022 # WAREHOUSE-1-2&STORE-1-2"

3. הוספת קטגוריה: על מנת להוסיף קטגוריה חדשה שלא קיימת במערכת יש להקיש במקלדת על הספרה "3", להקיש ENTER ולהזין את שם הקטגוריה הרצויה
4. הצהרה על מוצר פגום: על מנת להצהיר על מוצר פגום יש להקיש במקלדת על הספרה "4", ללחוץ ENTER, ולבחור מהטבלה המופיעה מעל שורת הרישום את מספר המוצר (id) ולהקליד אותו.
5. הצגת כל המוצרים: על מנת להציג את כל המוצרים הקיימים במערכת יש להקיש במקלדת על הספרה "5" וללחוץ ENTER
6. דו"ח על פי קטגוריות: על מנת להוציא דוח מוצרים לפי קטגוריות יש להקיש על הספרה "6" וללחוץ ENTER, יש להקליד את שמות הקטגוריות הרצויות עם מקש # המפריד ביניהן. לדוגמה: Salty # Shampoo #
7. דו"ח מוצרים פגי תוקף: על מנת להוציא דוח מוצרים פגי תוקף יש להקיש על הספרה "7" וללחוץ ENTER.
8. דו"ח מוצרים פגומים: על מנת להוציא דוח מוצרים פגומים יש להקיש על הספרה "8" וללחוץ ENTER.
9. דו"ח מוצרים שצריך להזמין: על מנת להוציא דוח מוצרים זה יש להקיש על הספרה "9" וללחוץ ENTER.
10. הזמנת מוצרים שמתחת לכמות המינימלית: על מנת להזמין מוצרים אלו יש להקיש על הספרה "10" וללחוץ ENTER.
11. שינוי קטגוריה למוצר: על מנת לשנות את הקטגוריה של מוצר קיים יש להקיש על הספרה "11", ללחוץ על ENTER, ולהזין את מספר הזיהוי של הפריט, סוג הקטגוריה ושם הקטגוריה החדש בפורמט הבא: id # category-index # existing-category-name. סוג הקטגוריה מאופיין באופן הבא: 0- קטגוריה ראשית, 1- תת קטגוריה, 2 – תת תת קטגוריה. את מיקום הקטגוריה הישן ואת מספר הזיהוי של הפריט ניתן לראות בטבלה המוצגת לאחר הלחיצה על ENTER.
דוגמה להשמה: Salty # 1 # 0.
12. הוספת הנחה לפי קטגוריה: על מנת להוסיף הנחה לפי קטגוריה יש להקיש את המספר "12", ללחוץ על ENTER, ולרשום את שם הקטגוריה עליה מתבצעת ההנחה, אחוזי ההנחה על הקטגוריה ותאריך פג תוקף ההנחה בפורמט הבא: category-name # discount-in-percentage # discount-exp-date לדוגמה: Salty # 20 # 01/05/2022
13. הוספת הנחה למוצר על פי שמו: על מנת להוסיף הנחה למוצר לפי שמו יש להקיש את המספר "13", ללחוץ על ENTER, ולרשום את שם המוצר, שם היצרן, אחוזי ההנחה על הפריט ותאריך פג תוקף ההנחה בפורמט הבא: product-name # producer-name # discount-in-percentage # discount-exp-date לדוגמה: Chips # Osem # 20 # 01/05/2022
14. מחיקת פריט: על מנת למחוק **לצמיתות** פריט ממערכת המלאי יש להקיש את המספר "14" וללחוץ על ENTER.
15. אישור הזמנה: על מנת לבדוק את ההובלה שהגיעה ולאשר את ההזמנה, יש ללחוץ על "15". ניתן לאשר את ההזמנה ע"י לחיצה על "1" או להוריד מוצרים שנמצאו פגומים ע"י לחיצה על "2"

16. יציאה מהמערכת: על מנת לסגור את המערכת יש להקיש על הספרה "0" וללחוץ על ENTER.

המערכת במצבה הראשוני מגיעה עם מספר מוצרים מאותחלים מראש:

שם המוצר	שם היצרן	מחיר עלות	מחיר מכירה	קטגוריות
Shampoo	Kef	10.20	12.50	Wash,Shampoo,Size
Chips	Osem	7.20	10.50	Snacks,Salty,Weight
Cini Minis	Telma	25	32	Cereal,Sweets,Weight
Milk	Tnuva	7.50	10	Diary,Milk,Size
Cottage	Tnuva	4.50	7.90	Diary,Delicacy,ML
Coffee	Turkey	6.50	11	Hot Drink,Coffee,Weight
Banana	Perot	5	6	Fruits,Sweets,Weight
Apple	Perot	4	5	Fruits,Sweets,Weight

ומספר קטגוריות מאותחלות מראש:

,"Diary","Wash","Milk","Size","Shampoo","Salty","Gram","Snacks","Cereal","Sweets","Weight"
 "Delicacy","Hot Drink","Coffee","Fruits","ML","Unknown"

Permissions

Users that have permission to view data but don't have permission to change will receive a smaller menu with only the options to receive reports.

Default managing staff users

Admin id:580083434 – HR Manager

Admin2 id:123 – HR Manager

Manny the Manager id:5 - Branch manager

InManny the InManager id:6 – Inventory manager

LogManny the LogManager id:7 – Logistics manager

ID is enough to enter the system