

User manual for Super-Li HR And Delivery System

מגישים:

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Activating the program

To activate the program on windows command prompt, first navigate to the ADSS_Group_L\release folder using cd command.

Then use java -jar adss2020_v01.jar to run the program.

Initializing the system:

When activating the program the program will try to connect with the program's data base, if no data base is found a new data base will be created, and initialized with the following data:


Table:  Workers										
	id	name	salary	ik_account_num	pension	vacation_days	sick_days	start_date	role	branchAddress
	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	13	avi	1000	123	3	12	12	1577829600000	manager	Super Lee
2	14	inbar	1500	105	9	30	12	1558990800000	manager	Costco
3	15	romi	2000	190	6	25	30	1525294800000	storekeeper	Super Lee
4	16	gil	2000	191	6	25	30	1525294800000	driver	Costco
5	17	haim	2000	189	6	25	30	1525294800000	cashier	Super Lee
6	18	lala	2000	192	6	25	30	1525294800000	driver	Mega
7	19	John	1000	123	3	12	12	1577829600000	manager	Super Lee
8	20	Momo	1000	124	3	12	12	1577829600000	storekeeper	Super Lee
9	21	Meni	1000	125	3	12	12	1577829600000	manager	Lee Office
10	22	Eli	1000	126	3	12	12	1577829600000	storekeeper	Lee Office
11	23	Beni	1000	127	3	12	12	1577829600000	manager	Mega
12	24	Shlomi	1000	128	3	12	12	1577829600000	storekeeper	Mega
13	25	Shimon	1000	129	3	12	12	1577829600000	manager	Shufersal
14	26	Eti	1000	130	3	12	12	1577829600000	storekeeper	Shufersal
15	27	Tikva	1000	131	3	12	12	1577829600000	manager	Costco
16	28	kobi	1000	132	3	12	12	1577829600000	storekeeper	Costco
17	29	alon	1000	133	3	12	12	1577829600000	manager	Best Buy
18	30	omer	1000	134	3	12	12	1577829600000	storekeeper	Best Buy
19	31	shon	1000	135	3	12	12	1577829600000	manager	American Eagle
20	32	roei	1000	136	3	12	12	1577829600000	storekeeper	American Eagle
21	33	noam	1000	137	3	12	12	1577829600000	manager	Max Stock
22	34	max	1000	138	3	12	12	1577829600000	storekeeper	Max Stock
23	35	Edi	1000	139	3	12	12	1577829600000	driver	Max Stock
24	36	Rami	1000	140	3	12	12	1577829600000	driver	Max Stock
25	37	Eyal	1000	141	3	12	12	1577829600000	driver	Max Stock
26	38	Ohad	1000	142	3	12	12	1577829600000	driver	Max Stock

Table: DriverLicences

	driver_id	license
	Filter	Filter
1	35	Mercedes
2	36	Toyota
3	36	Mercedes
4	37	Toyota
5	38	Mazda
6	16	Mercedes
7	18	Toyota
8	18	Mazda

Table: Constraints

	cid	wid	date	morning	reason
	Filter	Filter	Filter	Filter	Filter
1	1	13	1590613200000	false	wedding
2	2	13	1590699600000	true	wedding
3	3	14	1593378000000	false	doctor
4	4	15	1599598800000	false	vacation
5	5	15	1599598800000	true	vacation
6	6	16	1590008400000	false	vacation
7	7	17	1590094800000	true	doctor
8	8	18	1590181200000	false	doctor
9	9	19	1590354000000	true	i dont want to...
10	10	36	1590440400000	false	bar mitzva
11	11	30	1590613200000	true	vacation
12	12	19	1599598800000	false	vacation
13	13	19	1590872400000	true	vacation

Table: Shifts

	date	morning	branch	manager_id
	Filter	Filter	Filter	Filter
1	1579557600000	1	Super Lee	13
2	1579557600000	0	Costco	14
3	1579557600000	1	Costco	14

Table: WorkersInShift

	date	morning	worker_id	branch
	Filter	Filter	Filter	Filter
1	1579557600000	1	15	Super Lee
2	1579557600000	1	17	Super Lee
3	1579557600000	0	16	Costco

Table: Locations

	isBranch	address	associate	phone
	Filter	Filter	Filter	Filter
1	1	Super Lee	Haim	516
2	1	Lee Office	Romi	622
3	1	Mega	Michael	636
4	1	Shufersal	Inbar	163
5	1	Costco	Avi	123
6	1	Best Buy	Gil	456
7	1	American Eagle	Rom	789
8	1	Max Stock	Adir	147
9	1	Linux	Adler	852
10	0	Asos	Tony	963
11	0	Steve Madden	Steve	9654
12	0	Gucci	Gustavo	1654

Table:  Sections

	area	location
	Filter	Filter
1	1	Super Lee
2	1	Lee Office
3	1	Mega
4	1	Shufersal
5	2	Costco
6	2	Best Buy
7	2	American Eagle
8	2	Max Stock
9	2	Linux
10	1	Asos
11	1	Steve Madden
12	2	Gucci

Table:  Trucks

	id	plate	maxWeight	netoWeight	type
	Filter	Filter	Filter	Filter	Filter
1	1	111	5000	4000	Mazda
2	2	222	10000	7000	Toyota
3	3	333	8000	5500	Mercedes
4	4	123	6500	4000	Mazda

Libraries:

sqlite-jdbc-3.30.1.jar

Using the program

Program's Main Menu:

Enter the menu you want 1, for Delivery system or 2 for HR system then enter.

If you want to exit the program press 3 then enter.

```
Hello, please choose the system you want to use:  
1. Delivery System  
2. HR System  
3. Exit  
|
```

HR System:

HR System Main menu:

This menu presents all of the program menus and navigates to them according to your choosing:

```
Welcome to Super-Li HR System
Please choose from the following menus
1. Add menu
2. Edit menu
3. Delete menu
4. Search menu
5. Report menu
6. Exit HR system
Please choose a command:
|
```

Press the number of the menu you want to navigate to and enter.

Add menu:

This menu presents all of the HR system add commands and executes to them according to your choosing:

```
Add menu:
The possible add commands are:
1. add new employee.
2. add new shift.
3. add new constraint.
Please choose a command:
|
```

Press the number of the command you want to execute and enter.

1. add new employee

After choosing this command the system will ask you to enter the new employee's data field by field:

- id- a positive Integer.
- Full name- a String (Text).
- Salary- an Integer.
- Pension- an Integer.
- Sick days- an Integer.
- Start Date- a date using a dd/mm/yyyy format.
- Role- a String (Text).

- bank account- an Integer.
- Branch- you will be presented with the possible branches, choose the number of the branch.

Enter each field according to the above information and press enter.

If you enter a field with a wrong parameter an error message will be presented and you will be sent back to the main menu.

If the Employee was successfully added the message "employee was added" .If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

2. **add new shift**

After choosing this command the system will ask you to enter the new shift's data field by field.

Enter each field according to the information below and press enter:

- Date- a date using a dd/mm/yyyy format.
- Morning shift? - enter true or false.
- Branch- you will be presented with the possible branches, choose the number of the branch.

After entering those two fields you will be presented with a list of available managers for this shift, if no managers are available you will be returned to the main menu because a shift has to have at least one manager.

Then enter the chosen manager's id and press enter.

The system will ask if you need more employees or not answer by y/n in accordance, the following operation will happen as long as you answer y:

If you do need more employees the system will ask what is the role of the employee you want to add, type the role and press enter. Then the system will print to the screen all of the employees of that role that are available in that date and time' and will ask you to enter the chosen id of the employee type the id and press enter.

If the shift was successfully added the message "shift was added".

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

3. add new constraint

After choosing this command the system will ask you to enter the new constraint's data field by field:

- employee's id- a positive Integer.
- Date- a date using a dd/mm/yyyy format.
- Morning shift? - enter true or false.
- reason- a String (Text).

Enter each field according to the above information and press enter.

If you enter a field with a wrong parameter an error message will be presented and you will be sent back to the main menu.

If the constraint was successfully added the message "constraint was added."

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

Edit menu:

This menu presents all of the HR system edit commands and executes to them according to your choosing:

```
Edit menu:
The possible edit commands are:
1. edit employee.
2. edit shift.
3. edit constraint.
Please choose a command:
|
```

1. Edit employee

The system will ask you to enter the employee's id, type it and press enter.

If the system didn't find the employee it will return you to the main menu, otherwise it will present the employee's details and will present menu asking which field you want to edit' this process will happen until you choose the option finished editing.

After choosing the field the system will ask you to type the new field you want, type it according to the rules presented in the new employee's command (Full name is text et.) and press enter.

If the employee was edited successfully the message "employee was edited."

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

2. Edit shift

The system will ask you to enter the shift's date, type it and press enter.

Then the system will ask you to enter if it is a morning shift, type true or false and press enter.

Then the system will ask you to enter the branch of the shift, type the number of the branch and press enter.

If the system didn't find the shift it will return you to the main menu, otherwise it will present the shift's details and will present menu asking which field you want to edit' this process will happen until you choose the option finished editing.

If you chose the fields date or morning the system will ask you to type the new field you want, type it according to the rules presented in the new shift's command and press enter.

If you want to edit the manager the system will present you with a list of manager available to this date and time, then it will ask you to enter the manager's id you choose.

If you want to remove/ add employees the system will first present the details of the current shift's employees and then will ask you to enter the id of the employee you want to add/ remove.

If the shift was edited successfully the message "shift was edited".

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

3. Edit constraint:

The system will ask you to enter the employee's id, type it and press enter.

The system will ask you to enter the constraint's date, type it and press enter.

Then the system will ask you to enter if it is a morning shift constraint, type true or false and press enter.

If the system didn't find the constraint it will return you to the main menu, otherwise it will present the details of the constraints found, enter the number of the constraint you want to edit.

The system will present menu asking which field you want to edit' this process will happen until you choose the option finished editing.

After choosing the field the system will ask you to type the new field you want, type it according to the rules presented in the new constraint's command (reason is text et.) and press enter.

If the constraint was edited successfully the message "constraint was edited".

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

Delete menu:

This menu presents all of the HR system delete commands and executes to them according to your choosing:

```
Delete menu:
The possible delete commands are:
1. delete employee.
2. delete shift.
3. delete constraint.
Please choose a command:
|
```

1. Delete employee:

The system will ask you to enter the employee's id, type it and press enter.

If the system didn't find the employee it will return you to the main menu, otherwise it will present the employee's details and will ask if you want to delete this employee if you do press y and enter if you don't press n and enter.

If the employee was deleted successfully the message " employee was deleted".

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

2. Delete shift:

The system will ask you to enter the shift's date, type it and press enter.

Then the system will ask you to enter if it is a morning shift, type true or false and press enter.

Then the system will ask you to enter the branch of the shift, type the number of the branch and press enter.

If the system didn't find the shift it will return you to the main menu, otherwise it will present the shift's details and will ask if you want to delete this shift if you do press y and enter if you don't press n and enter.

If the shift was deleted successfully the message "shift was deleted".

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

3. Delete constraint:

The system will ask you to enter the employee's id, type it and press enter.

The system will ask you to enter the constraint's date, type it and press enter.

Then the system will ask you to enter if it is a morning shift constraint, type true or false and press enter.

If the system didn't find the constraint it will return you to the main menu, otherwise it will present the details of the constraints found, enter the number of the constraint you want to delete.

If the constraint was deleted successfully the message "constraint was deleted".

If not an Error message "The action have failed due to" and the reason for failing will be presented to the screen.

Search menu:

This menu presents all of the HR system search commands and executes to them according to your choosing:

```
Search menu:
The possible delete commands are:
1. search employee.
2. search shift.
3. search constraint.
Please choose a command:
```

1. Search employee:

The system will ask you to enter the employee's id, type it and press enter.

If the system didn't find the employee it will return you to the main menu, otherwise it will present the employee's details.

2. Search shift:

The system will ask you to enter the shift's date, type it and press enter.

Then the system will ask you to enter if it is a morning shift, type true or false and press enter.

Then the system will ask you to enter the branch of the shift, type the number of the branch and press enter.

If the system didn't find the shift it will return you to the main menu, otherwise it will present the shift's details.

3. Search constraint:

The system will ask you to enter the employee's id, type it and press enter.

The system will ask you to enter the constraint's date, type it and press enter.

Then the system will ask you to enter if it is a morning shift constraint, type true or false and press enter.

If the system didn't find the constraint it will return you to the main menu, otherwise it will present the details of the constraints found.

Report menu:

This menu presents all of the HR system print commands and executes to them according to your choosing:

```
Report menu:
The possible delete commands are:
1. present weekly shift report.
2. present weekly constraint report.
3. print all employees.
4. print all shifts.
5. print all constraints.
Please choose a command:
|
```

1. present weekly shift report:

Prints all of the shifts of all branches that has been scheduled for the current week.

2. present weekly constraint report:

Prints all of the constraints that has been submitted for the current week.

3. print all employees:

Prints all of the employees that's in the system.

4. print all shifts:

Prints all of the shifts that's in the system.

5. print all constraints:

Prints all of the constraints that's in the system.

Exit HR System:

Exit back to the programs main menu.

Delivery System:

Delivery System Main menu:

This is our delivery System menu

```
Welcome to the delivery system!  
Please choose your action.  
1) Create delivery  
2) Print archive  
3) Exit delivery system
```

Press the number of the menu you want to navigate to and enter.

Creating a new delivery

After choosing the desired operation – 1 the system will explain very detailed what is the input required at any step.

- The source can be from any area you wish, and all the destinations must be from the same area to ensure max efficiency for the delivery.
- Note that the driver be assigned to the shifts required for the delivery.
In case the driver can't work in the necessary shifts the system will not allow creating the delivery.
- For each destination the user is required to enter the estimated date and time of arrival. This must be in the future. In addition the system will assign a storekeeper to all of the company branches at the time the delivery arrives.
Again if there is no storekeeper available in the required destination at the required location the system will alert the user and no delivery will be created.

First enter the date of delivery in dd/mm/yyyy format – use “/” to divide between the day month and the year.

For example :

```
Hi! Please enter the date of delivery in dd/mm/yyyy format.  
Today  
Invalid date, try again.  
Please choose your action.  
1) Create delivery  
2) Print archive  
3) Exit delivery system
```

Enter departure time in HH:mm format. – the time must be

Enter the number of the truck you'd like to use.

Enter the driver's ID.

Enter the address for the source of delivery.

Please weigh the truck and enter its weight in kilos.

Please enter supply name to pick up or deliver.

now Enter the quantity of supply First.

Any more supplies for us? enter y for yes, any other key to stop.

- Here we will continue until the user decides to stop, allowing adding any number of supplies.

Document created successfully.

Let's create the delivery document for the next Destination. Where would you like to deliver?

Please enter supply name to pick up or deliver

now Enter the quantity of supply First.

Any more supplies for us? enter y for yes, any other key to stop

What is the estimated date of arrival to <Destination> in dd/mm/yyyy format? (showing the actual Destination the user selected)

What is the estimated time of arrival to in <Destination> HH:mm format?
(<Destination> - showing the actual Destination the user selected)

Do you wish to add another destination? [y/n]

- Here we give the user the option to add as many destinations as he possibly can. in case of incorrect input we will assume that the user doesn't want to add any more destinations.

In case the user enters an invalid input the system will return him to the delivery menu and print the appropriate message.

If the Delivery was successfully added the message " Document created successfully. " . Otherwise if there is enough information for creating a valid delivery the system will print – "Invalid answer, the system will create the delivery with the current information now. " As we assume the user will want the information to be stored and executed and not aborted due to incorrect answer.

If not an error message with the reason for failing will be presented to the screen and the user will be sent back to the menu.

Print archive –

This is the option to view all the archive the system holds, we show all the information in a convenient way for the user without any unwanted information to confuse the user.

Every Delivery that happened within the system will be shown. For example :

```
Welcome to the delivery system!
Please choose your action.
1) Create delivery
2) Print archive
3) Exit delivery system
2
Delivery from Gucci at 2020-10-25.
Delivery List #2 Arrives to Mega.
Deliver/pickup:
f  2

Delivery from Gucci at 2020-10-26.
Delivery List #4 Arrives to Mega.
Deliver/pickup:
f  2
|
Delivery from Gucci at 2020-10-27.
Delivery List #6 Arrives to Mega.
Deliver/pickup:
f  2

Delivery from Asos at 2035-12-12.
Delivery List #8 Arrives to Super Lee.
Deliver/pickup:
a  1
b  2
```

Exit delivery system –

Press 3 to chose this option. This will bring you back to the main menu.