Project Super-Li

Transports Module User Manual

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Hello and welcome to Super-Li's Transport Module User Manual!

The following step-by-step guide to operating our system will assist you in creating and managing transport operations across the company's different shipping areas spread countrywide.

Upon activating the system, you will be met with the following menu:

```
Menu:
1. Create Transport
2. List All Drivers
3. Add Driver
4. Remove Driver
5. Update Driver Availability
6. List All Trucks
7. Add Truck
8. Remove Truck
9. Update Truck Availability
10. List All Products Reports
11. List All Transports
12. Change Transport Truck
13. Remove Destinations
14. Change Destination
15. Get Products Report By Id
16. Get Transport Report By Id
17. Get Product Report By Site
18. Add Site To Selected Shipment Area
19. Remove Site From Selected Shipment Area
20. Exit
```

In order to perform one of the 20 actions this menu has to offer, simply press on any number between 1-20 and hit enter.

The actions you can perform with the system are as follows:

1. Create Transport
   Upon choosing this option you will be met with a screen instructing you to fill out required information for the desired transport.
   If all of the input details pass through, the transport will be created, otherwise a suitable error message will appear.

```
Enter your choice: 1
Enter Transport Request details:
Enter Driver ID: 1
Enter Truck License Number: ABC123
Enter Request Day (yyyy-MM-dd): 2024-12-12
Enter Requested Time (HH:mm): 12:12
Enter Origin Address: 123 Main St
Enter Site Name (or 'done' to finish): 456 Elm St
Enter Site Name (or 'done' to finish): done
Transport created successfully.
```

2. List All Drivers
   Choosing this option will provide a list of all drivers stored in the system.

```
Enter your choice: 2
Driver Name: Mor, License Type: C, Available: false
Driver Name: Raziel, License Type: B, Available: true
Driver Name: Sampson, License Type: C, Available: true
Driver Name: Shon ha melech, License Type: D, Available: true
Driver Name: Jesie, License Type: E, Available: true
```

3. Add driver
   This option will allow you to incorporate a new driver into the system.
   Simply input the required details in each line and hit enter.

```
Enter your choice: 3
Enter Driver license Type: D
Enter Driver Name: Raz
Is Driver Currently Available (Please Enter - (true/false)) : true
Enter Driver ID: 209394875
Driver added successfully.
```

4. Remove Driver
   This option allows you to remove a selected driver from the system by ID. Failure to find a driver with the given ID will prompt an error message.

```
Enter your choice: 4
Enter Driver ID To Remove: 2
Driver RazielID:2 removed.
```

5. Update Driver Availability
   This option will allow you to manually change driver availability.

```
Enter your choice:  5
Enter Driver ID: 3
Is Driver Currently Available (Please Enter - (true/false)) : false
Driver availability updated.
```

6. List All Trucks
   This option will allow you to list all of the trucks stored in the system.

```
Enter your choice: 6
Truck License Number: ABC123, Model: ModelX, Net Weight: 2000.0, Max Weight: 5000.0, Required License: B, Available: false
Truck License Number: DEF456, Model: ModelY, Net Weight: 2500.0, Max Weight: 6000.0, Required License: C, Available: true
Truck License Number: GHI789, Model: ModelZ, Net Weight: 3000.0, Max Weight: 7000.0, Required License: D, Available: false
Truck License Number: JKL012, Model: ModelA, Net Weight: 3500.0, Max Weight: 8000.0, Required License: E, Available: true
```

7. Add Truck
   This option will allow you to incorporate a new driver into the system.
   Simply input the required details in each line and hit enter.

```
Enter your choice: 7
Enter Truck license Number: AKKJ134
Enter Required License For Truck: B
Enter Truck Model: XY
Enter Truck Net Weight: 1500
Enter Truck Max Weight: 7200
Truck added successfully.
```

8. <u>Remove Truck</u>
   This option allows you to remove a selected truck from the system by license number. Failure to find a truck with the given license number will prompt an error message.

```
Enter your choice: 8
Enter Truck To Remove license Number: ABC123
Truck removed successfully.
```

9. <u>Update Truck Availability</u>
   This option will allow you to manually change truck availability.

```
Enter your choice: 9
Enter Truck License Number: ABC123
Is Truck Currently Available (Please Enter - (true/false)) : true
Truck availability updated.
```

10. <u>List All Product Reports</u>
    This option allows you to list all of the product reports for each of the destinations in a given transport by inputting the desired transport ID.

```
Enter your choice: 10
ProductsReport ID: 1
Products: ProductA (ID: 1, Weight: 10.5), ProductB (ID: 2, Weight: 20.0)
Weight: 30.5

ProductsReport ID: 2
Products: ProductC (ID: 3, Weight: 15.0), ProductD (ID: 4, Weight: 25.0)
Weight: 40.0

ProductsReport ID: 3
Products: ProductE (ID: 5, Weight: 30.0)
Weight: 30.0

ProductsReport ID: 4
Products: ProductF (ID: 8, Weight: 15.0), ProductG (ID: 9, Weight: 25.0)
Weight: 40.0
```

11. List All Transports
    This option allows you to list all of the transports that were created and their respective transport report summary.

```
Enter your choice: 11
Transport ID: 5
Transport Report: TransportReport ID: 5,Initial Weight: 30.5,Changes Made:
```

12. Change Transport Truck
    This option allows you to change the transport truck for a given transport if it is necessary to do so.

```
Enter your choice: 12
Enter Transport ID: 15
Enter changes made: Truck Change
Truck changed successfully.
```

13. Remove Destination(s)
    This option allows you to remove a destination from the list of destinations of a transport if it is necessary to do so.

```
Enter your choice: 13
Enter Transport ID: 15
Enter Site Name to Remove (or 'done' to finish): 456 Elm St
Enter Site Name to Remove (or 'done' to finish): done
Enter changes made: Remove Dest
Destinations removed successfully.
```

14. Change Destination(s)
    This option allows you to change a destination from the list of destinations of a transport if it is necessary to do so.

```
Enter your choice: 14
Enter Transport ID: 5
Enter old Site Name: 456 Elm St
Enter new Site Name: 123 Main St
Destination changed successfully.
```

15. <u>Get Products Report by ID</u>
    This option allows you to fetch a certain products report by inputting its ID.

```
Enter your choice: 15
Enter Products Report ID: 1
ProductsReport ID: 1
Products: ProductA (ID: 1, Weight: 10.5), ProductB (ID: 2, Weight: 20.0)
Weight: 30.5
```

16. <u>Get Transport Report by ID</u>
    This option fetches the transport report associated with the desired transport.

```
Enter your choice: 16
Enter Transport Report ID: 5
TransportReport ID: 5,Initial Weight: 30.5,Changes Made:
```

17. <u>Get Product Report by Site</u>
    This option fetches the products report for a given site given its name.

```
Enter your choice: 17
Enter Site Address: 123 Main St
ProductsReport ID: 1
Products: ProductA (ID: 1, Weight: 10.5), ProductB (ID: 2, Weight: 20.0)
Weight: 30.5
```

18. <u>Add Site to Selected Shipment Area</u>
    This option allows you to add a new site to a certain shipment area, simply input the required details.

```
Enter your choice: 18
Enter Area Name: Area1
Enter Site Address: Hashalon 12
Enter Contact Number: 555-2322
Enter Contact Name: Shon
Site added successfully.
```

19. Remove Site from Selected Shipment Area

This option allows you to remove a site from a certain shipment area, simply input the required details.

```
Enter your choice: 19
Enter Area Name: Area1
Enter Site Address: Hashalon 12
Site removed successfully from area Area1
```

20. Exit

Choosing this will abort the system and close it.

The following is the information saved in the data.csv file that we used for testing the system –

Areas:

Area1

Area2

Area3

Area4

Sites:

123 Main St,555-1234,John Doe,ProductA,1,10.5,ProductB,2,20.0,Area1

456 Elm St,555-5678,Jane Smith,ProductC,3,15.0,ProductD,4,25.0,Area1

789 Oak St,555-9012,Bob Johnson,ProductE,5,30.0,Area1

123 Origin St,555-3434,Omer Topg,ProductF,8,15.0,ProductG,9,25.0,Area1

654 Pine St,555-3456,Chris Green,ProductJ,12,20.0,ProductK,13,18.5,Area2

321 Maple Ave,555-4567,Lisa Blue,ProductL,14,22.5,ProductM,15,10.0,Area2

852 Forest Ln,555-7890,Tom Black,ProductN,16,25.0,ProductO,17,30.0,Area2

951 Beach Blvd,555-1235,Alice Brown,ProductP,18,10.0,ProductQ,19,20.0,Area3

753 Hill St,555-2345,Michael Gray,ProductR,20,15.0,ProductS,21,25.0,Area3

159 Ocean Dr,555-3457,Olivia Yellow,ProductT,22,5.0,ProductU,23,7.5,Area3

357 Park Pl,555-4568,Henry Purple,ProductV,24,8.5,ProductW,25,6.0,Area3

258 Lake Rd,555-5678,Nora Red,ProductX,26,12.0,ProductY,27,9.0,Area4

147 Sunset Ave,555-6789,Sam Orange,ProductZ,28,3.5,ProductAA,29,4.0,Area4

369 Vine St,555-7891,Lara Green,ProductBB,30,7.0,ProductCC,31,5.5,Area4

Trucks:

ABC123,B,ModelX,2000,5000,true

DEF456,C,ModelY,2500,6000,true

GHI789,D,ModelZ,3000,7000,false

JKL012,E,ModelA,3500,8000,true

MNO345,A,ModelB,1500,4000,true

PQR678,B,ModelC,2000,4500,true

STU901,C,ModelD,2500,5000,true

VWX234,D,ModelE,3000,5500,false

YZA567,E,ModelF,3500,6000,true

BCD890,A,ModelG,1500,3500,true

EFG123,B,ModelH,2000,4000,true

HIJ456,C,ModelI,2500,4500,true

KLM789,D,ModelJ,3000,5000,false

NOP012,E,ModelK,3500,5500,true

Drivers:

C,Mor,true,1

B,Raziel,true,2

C,Sampson,true,3

D,Shon ha melech,true,4

E,Jesie,true,5

A,Yossi,true,6

B,Niv,true,7

C,John,true,8

D,Shani,true,9

E,Sharon,true,10

A,Daniel,true,11

B,Robert,true,12