Instructions for using the transport-employee module cmd app

The system will let the users to manage employees, shift scheduling, eliciting information and more based on authorizations of the user. The system will require a user to login prior to using it's primary features. After every performed command, the system will show a text regarding the last operation (for example stating if it was successful or there was an error) and the user will be presented the current available commands he has that he can choose from. The commands will be numbered, described, and will present it's structure enclosed with apostrophes ('…'). Some commands will require case specific information. In the command structure the information should be given by the user instead of the text enclosed by: <…> , omitting the '<' and '>' as well.

In the initial run, the system will present the following text:

Please log in to the system.

1. Login command: `login <username> <password>`

2. Generate initial data: `generate_data`

3. Exit command: `exit`

The user can choose one of the numbered commands, which are either Login, Generate Data or Exit.

The system will contain one default administrative user, its username is: 'admin123' and password is: '123'. In order to login, the user should type in the following:

login admin123 123

Admin User

Administrative user is authorized as an HR manager, meaning this user details should be handed to the HR manager of the company, and only him. This account is allowed to recruit employees, create shifts and make them available for employees to sign up to them, decide which of the employees' requests for shifts to approve, and finally verifying a shift, certifying an employee to a specific role (and as a consequence, his respective user will get the respective authorizations in the system), updating an employee's salary and more. When an employee is recruited through an admin, the system automatically registers a new user that is ought to be the employee's.

Non-admin User

Additionally the system contains 1 employee with id: 111, username: 111, and password: 1234 that is certified to be a shift manager and store keeper.

An employee's user username is always he's ID.

Such user is considered an employee's user who should request registering to shifts that the admin made available (by creating them). He can do so by choosing a role, branch, date and time of a shift, and only if such undertaking will not contradict one of his constraints. The user must wait for the admin (HR manager) to approve his request or decline his request to take part in the shift. If the request is approved, he is scheduled to that shift and will be able to see it with 'my_shifts' command.

Transport Manager User

We use an intuitive multiple choice menu for reaching all the app's functionality. in order to enter a menu, enter the number and click enter.

To enter the transport module you need to log in with the user of the transport manager in the following way:

login transport 123

```
1. Login command: `login <username> <password>`
2. Generate initial data: `generate_data`
3. Exit command: `exit`
login transport 123
```

And so the main screen of the transport module looks like:

```
========================================
Welcome to the Transport Module!
Please select an option:
1. Manage transports
2. Manage item lists
3. Manage transport module resources
4. Return to login menu
5. Exit
>>
```

The menus for managing transports and item lists are available from the main menu. however, in order to reach the menus to manage sites, drivers and trucks you will need to go into the "Manage transport module resources" menu, which will reveal further menus which are nearly identical to the other managing menus:

There are explanations printed in place for every functionality that requires user input.

```
========================================
Transport module resources management
Please select an option:
1. Manage sites
2. Manage drivers
3. Manage trucks
4. Return to main menu
>> |
```

Generated data:

Trucks

```
All trucks:
License plate:     jkl012
Model:             honda
Base weight:       3000
Max weight:        25000
Cooling capacity: FROZEN
-----------------------------------------
License plate:     def456
Model:             chevy
Base weight:       2000
Max weight:        15000
Cooling capacity: COLD
-----------------------------------------
License plate:     mno345
Model:             nissan
Base weight:       3500
Max weight:        30000
Cooling capacity: FROZEN
-----------------------------------------
License plate:     abc123
Model:             ford
Base weight:       1500
Max weight:        10000
Cooling capacity: NONE
-----------------------------------------
License plate:     ghi789
Model:             toyota
Base weight:       2500
Max weight:        20000
Cooling capacity: COLD
-----------------------------------------
```

Drivers

```
All drivers:
-----------------------------------
Employee ID:  7890
Name:         sarah kim
License type: C3
-----------------------------------
Employee ID:  9012
Name:         emily chen
License type: C2
-----------------------------------
Employee ID:  1234
Name:         megan smith
License type: A1
-----------------------------------
Employee ID:  3456
Name:         david lee
License type: B2
-----------------------------------
Employee ID:  5678
Name:         john doe
License type: C3
```

Item Lists:

```
All item lists:
---------------------------
Item list ID: 1
Items loading list:
  pants : 15
  shirts : 20
  socks : 30
Items unloading list:
  gloves : 20
  hats : 5
  jackets : 10
---------------------------
Item list ID: 2
Items loading list:
  pencils : 50
  notebooks : 20
  erasers : 30
Items unloading list:
  highlighters : 25
  markers : 15
  pens : 40
```

```
Item list ID: 3
Items loading list:
  smartphones : 20
  tablets : 10
  laptops : 5
Items unloading list:
  printers : 6
  desktops : 8
  monitors : 12
---------------------
Item list ID: 4
Items loading list:
  celery : 20
  broccoli : 10
  carrots : 15
Items unloading list:
  tomatoes : 12
  cucumbers : 18
  peppers : 8
```

```
Item list ID: 5
Items loading list:
  nails : 1000
  bolts : 750
  screws : 500
Items unloading list:
  clamps : 900
  washers : 800
  anchors : 600
```

Transports:

```
All transports:
Transport id: 1
Date:        2023-02-02
Time:        12:00
DriverId:    5678
TruckId:     mno345
Weight:      27800
Route:
[12:00] Name: logistical1 | Address: 3705 e south st, long beach, ca 90805, united states | Trn. zone: zone5 | Phone: 123-456-7890 | Contact: Jessica Park | Type: LOGISTICAL_CE
[12:18] Name: supplier1 | Address: 8500 washington blvd, pico rivera, ca 90660, united states | Trn. zone: zone4 | Phone: 456-789-0123 | Contact: William Davis | Type: SUPPLIER
[12:59] Name: branch2 | Address: 19503 s normandie ave, torrance, ca 90501, united states | Trn. zone: zone1 | Phone: 222-222-2222 | Contact: Jane Doe | Type: BRANCH (items lis
[13:23] Name: supplier2 | Address: 20226 avalon blvd, carson, ca 90746, united states | Trn. zone: zone3 | Phone: 999-999-9999 | Contact: Steve Chen | Type: SUPPLIER (items lis
[13:57] Name: branch3 | Address: 22015 hawthorne blvd, torrance, ca 90503, united states | Trn. zone: zone1 | Phone: 333-333-3333 | Contact: Bob Johnson | Type: BRANCH (items l
[14:43] Name: supplier3 | Address: 9001 apollo way, downey, ca 90242, united states | Trn. zone: zone4 | Phone: 345-678-9012 | Contact: Andrew Chen | Type: SUPPLIER (items list
[15:13] Name: branch4 | Address: 2100 n long beach blvd, compton, ca 90221, united states | Trn. zone: zone2 | Phone: 444-444-4444 | Contact: Samantha Lee | Type: BRANCH (items
```

```
Transport id: 2
Date:        2023-02-02
Time:        12:00
DriverId:    1234
TruckId:     abc123
Weight:      9800
Route:
[12:00] Name: supplier4 | Address: 2770 e carson st, lakewood, ca 90712, united states | Trn. zone: zone5 | Phone: 123-456-7890 | Contact: Andrew Chen | Type: SUPPLIER
[13:30] Name: branch6 | Address: 4651 firestone blvd, south gate, ca 90280, united states | Trn. zone: zone2 | Phone: 666-666-6666 | Contact: Emily Wilson | Type: BRANCH (items
```

Sites

```
All sites:
Name:           branch7
Address:        1301 n victory pl, burbank, ca 91502, united states
Transport zone: zone3
Phone number:   777-777-7777
Contact name:   Tom Kim
Site type:      BRANCH
----------------------------------------
Name:           branch6
Address:        4651 firestone blvd, south gate, ca 90280, united states
Transport zone: zone2
Phone number:   666-666-6666
Contact name:   Emily Wilson
Site type:      BRANCH
----------------------------------------
Name:           branch9
Address:        8333 van nuys blvd, panorama city, ca 91402, united states
Transport zone: zone4
Phone number:   123-456-7890
Contact name:   David Kim
Site type:      BRANCH
----------------------------------------
```

```
Name:           branch2
Address:        19503 s normandie ave, torrance, ca 90501, united states
Transport zone: zone1
Phone number:   222-222-2222
Contact name:   Jane Doe
Site type:      BRANCH
----------------------------------------
Name:           supplier2
Address:        20226 avalon blvd, carson, ca 90746, united states
Transport zone: zone3
Phone number:   999-999-9999
Contact name:   Steve Chen
Site type:      SUPPLIER
----------------------------------------
Name:           branch5
Address:        19340 hawthorne blvd, torrance, ca 90503, united states
Transport zone: zone2
Phone number:   555-555-5555
Contact name:   Mike Brown
Site type:      BRANCH
----------------------------------------
```

```
Name:           branch8
Address:        6433 fallbrook ave, west hills, ca 91307, united states
Transport zone: zone3
Phone number:   888-888-8888
Contact name:   Amanda Garcia
Site type:      BRANCH
----------------------------------------
Name:           branch3
Address:        22015 hawthorne blvd, torrance, ca 90503, united states
Transport zone: zone1
Phone number:   333-333-3333
Contact name:   Bob Johnson
Site type:      BRANCH
----------------------------------------
Name:           supplier3
Address:        9001 apollo way, downey, ca 90242, united states
Transport zone: zone4
Phone number:   345-678-9012
Contact name:   Andrew Chen
Site type:      SUPPLIER
----------------------------------------
```

```
Name:           supplier1
Address:        8500 washington blvd, pico rivera, ca 90660, united states
Transport zone: zone4
Phone number:   456-789-0123
Contact name:   William Davis
Site type:      SUPPLIER
----------------------------------------
Name:           branch4
Address:        2100 n long beach blvd, compton, ca 90221, united states
Transport zone: zone2
Phone number:   444-444-4444
Contact name:   Samantha Lee
Site type:      BRANCH
----------------------------------------
Name:           supplier5
Address:        14501 lakewood blvd, paramount, ca 90723, united states
Transport zone: zone4
Phone number:   234-567-8901
Contact name:   Jessica Park
Site type:      SUPPLIER
----------------------------------------
```

```
Name:           logistical1
Address:        3705 e south st, long beach, ca 90805, united states
Transport zone: zone5
Phone number:   123-456-7890
Contact name:   Jessica Park
Site type:      LOGISTICAL_CENTER
----------------------------------------
Name:           supplier4
Address:        2770 e carson st, lakewood, ca 90712, united states
Transport zone: zone5
Phone number:   123-456-7890
Contact name:   Andrew Chen
Site type:      SUPPLIER
----------------------------------------
Name:           branch1
Address:        14441 s inglewood ave, hawthorne, ca 90250, united states
Transport zone: zone1
Phone number:   111-111-1111
Contact name:   John Smith
Site type:      BRANCH
----------------------------------------
```