Requirements – Transport & Employee Module

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 1 | transport | functional | The system will keep the following information for each transport: unique ID, date, departure hour, truck license number, driver ID, source, destinations, uniquely identifiable list of items for each destination, truck weight | HP | LR | done |
| 2 | transport | functional | The system will keep the following information for each site: transport zone, address, phone number, contact person name, site type | HP | LR | done |
| 3 | transport | functional | The system will keep the following information for each truck: license number, model, base weight, maximum weight, cooling capacity | HP | LR | done |
| 4 | transport | functional | The system will keep the following information for each driver: unique ID, name, driving license type | HP | LR | done |
| 5 | transport | functional | The system will allow adding new transports, drivers, trucks, sites, item lists | HP | LR | done |
| 6 | transport | functional | The system will allow editing transports, drivers, trucks, sites and item lists. | HP | LR | done |
| 7 | transport | functional | The system will allow deleting transports, drivers, trucks, sites and item lists. | HP | LR | done |
| 8 | transport | non-functional | The truck's cooling capacities are: 1:"none",2:"cold",3:"frozen" | HP | LR | done |
| 9 | transport | non-functional | The site types are the following: Logistical center, branch, supplier | HP | LR | done |

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 10 | transport | non-function | The types of driving licenses are defined as pairs of letter and number as such: 1-3 for cooling capacity and A-C for max weight.  A : 0 - 10,000kg  B : 0 - 20,000kg  C : no limit  1 : no cooling  2 : cold  3 : frozen  for example: C1, B3, B1 etc | HP | LR | done |
| 11 | transport | non-function | The driver's license adequacy is ordered as such:  A1<B1<C1<C2<C3  A2<B2<C2<C3  A3<B3<C3  which means that drivers can drive trucks that require a weaker license | HP | LR | done |
| 12 | transport | functional | The system will reject the transport if the weight is higher than the maximum weight of the truck. | HP | LR | done |
| 13 | transport | functional | If a transport is rejected, the system will allow choosing between: changing or removing a destination, changing the truck, or changing the item list | HP | HR | done |
| 14 | transport | functional | The system will enforce that the driver of the transport has the adequate license type for the truck according to the cooling capacity and the weight of the truck | HP | HR | done |
| 15 | transport | functional | The system will not allow a truck to be assigned to two overlapping transports | LP | HR | backlog |
| 16 | transport | functional | The system will not allow a driver to be assigned to two overlapping transports | LP | HR | backlog |

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 17 | transport | functional | The system will document every transport in the transport history database | HP | HR | backlog |
| 18 | transport | functional | The system will document the list of items in the item history database | HP | HR | backlog |
| 19 | Employees | Functional | The system will enable decision of required roles (Cashier, Storekeeper, GeneralEmployee, ShiftManager, SecurityGuard, Stweard, Cleaner) and quantity of each in every branch in anytime. | MH | High | Done |
| 20 | Employees | Non-Functional | The system will enforce requirements on all branches of the company. | MH | Low | Done |
| 21 | Employees | Functional | The system will enable scheduling morning and evening shifts to every branch separately by the user's input | MH | High | Done |
| 22 | Employees | Non-Functional | The system will enable each employee to work at several branches in separate days. | MH | Low | Done |
| 23 | Employees | Functional | The system will Identify illegal shift scheduling and will notify the HR manager about that. Illegal shift scheduling is when the schedule contradicts constraints. | MH | High | Done |
| 24 | Employees | Non-Functional | The system will Identify the following as illegal shift scheduling: an employee working more than two shifts a day, an employee working more than 6 days a week, an employee signed up for a shift on a day that the branch is closed,\_\_\_. | MH | High | Done |
| 25 | Employees | Functional | The system will register users with a username and password for each user, with a unique username to each.(Inferred) | MH | Low | Done |
| 26 | Employees | Non-Functional | The system will Identify each user as a certain employee in the company.(Inferred) | NTH | Low | Done |

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 27 | Employees | Functional | The system will allow employee users to register themselves to shifts that hasn't happened yet (Inferred) only If they abide legal shift scheduling. | MH | High | Done |
| 28 | Employees | Functional | The system will enable HR manager user to verify each shift. | MH | High | Done |
| 29 | Employees | Non-Functional | The system will Identify some of its users as HR manager. (Inferred) | MH | Low | Done |
| 30 | Employees | Functional | The system should allow the HR manager to specify the work days and shift hours of each branch. | MH | High | Done |
| 31 | Employees | Functional | The system should note the different activities that occurred during each shift (such as the starting and end time of the shift, product cancellations at the register, etc.) | NTH | High | Done |
| 32 | Employees | Functional | The system should allow product cancellations at the register, and only to employees with a cancellation card. | MH | High | Done |
| 33 | Employees | Non-Functional | The system should enforce that there will always be a shift manager in every shift, the shift manager will be certified to use his cancellation card and manage the team. | MH | High | Done |
| 34 | Employees /Inventory | Functional | For every product cancellation at the register, the system should save the following cancellation details: cancelled product id, cancelling employee id, date and time of cancellation, in order to track the activity of the shift workers. | NTH | Medium | Done |
| 35 | Employees | Functional | The system should allow the HR manager to update each employee's details, as well as certify/remove different roles/certifications for each one. | MH | Medium | Done |
| 36 | Employees | Non-Functional | The system should save the following details for each employee: name, id, bank details, salary, employee conditions, employment date and other information if needed. | MH | Low | Done |
| 37 | Employees | Non-Functional | The system should support managing a number of different branches, each branch should have an HR manager and should be able to manage its employees and shifts independently. | MH | High | Done |

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| ID | Module | Functional / Non-Functional | Description | Priority | Risk | Status |
| 38 | Employees | Non-Functional | The system should enforce that each employee will only be able to work in certain shifts according to his certifications. | MH | High | Done |
| 39 | Employees | Functional | The system should calculate the employee's salary automatically, and allow modifying it (for example, by giving a bonus) | NTH | High | Done |
| 40 | Employees | Non-Functional | The system will only allow the following possible roles for the employees: Shift Manager, Cashier, Storekeeper, Security Guard, Cleaner, Steward, General Employee and Driver. It won't be possible to add new roles. | MH | Low | Done |
| 41 | Employees | Non-Functional | The system should allow for different employee roles to exist in each branch, but all branches will always have the following roles: Shift Manager, Cashier, Storekeeper and General Employee. | MH | Low | Done |
| 42 | Employees | Non-Functional | The system will enforce that there will be a valid shift schedule at least 24 hours before the shift, otherwise, the system will notify the HR manager about that. | NTF | High | Backlog |

**System assumptions** (things we don't know but we assumed)**:**

1. As of now, every truck is always available for a transport, regardless of whether they actually are. We are not enforcing this requirement because we currently don't have the information to verify when a truck is back to availability
2. We're assuming 9 types of drivers' licenses exist, based on the max weight of the truck and the cooling capacity of the truck.

A: 0-10 Tons, B: 0-20 Tons, C: no limit

1: no cooling, 2: cold, 3: frozen

every combination of these letters and numbers are a type of license number.

for example: A1, B2, C3 etc.

1. When the transport weight exceeds the max weight of the truck, we're allowing to change both the truck and the driver if necessary to accommodate the heavier truck.
2. The employment conditions of each employee are given as a string.
3. A shift with more than the needed amount of employees, is also a valid shift construction.

**Open questions:**

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| no. | topic | question |
| 1 | transport validation | How do you know when a truck is available to be put in a transport? |
| 2 | Salary | How is the employee's salary calculated? Which information should the system save to calculate it? (Total worked hours, hourly rate for each role, base salary, bonuses, etc.) |
| 3 | Cancellation Card | How should we save the cancelled product details, and is it related to the Inventory Module? |