

TANGER MED TECH - Gestion des quais et prise de RDV

Product presentation :

Product presentation When tackling the optimization of your supply chain, each step must be taken into account.

The quays of a port are a crucial point in a logistics chain. They can represent a real bottleneck and jeopardise the fluidity of flows, ultimately penalising the quality of service and customer satisfaction. In recent months, the problem of respect for sanitary measures to guarantee the safety of drivers and dockside teams, Driver reception must therefore adapt and good management of the docks becomes all the more important.

Definition :

Tanger Med is a logistics gateway world located on the Strait of Gibraltar and connected to more than 180 ports worldwide with processing capacities of: 9 million of containers, export of 1 million new vehicles, transit of 7 million passengers and 700,000 trucks on a base annual.

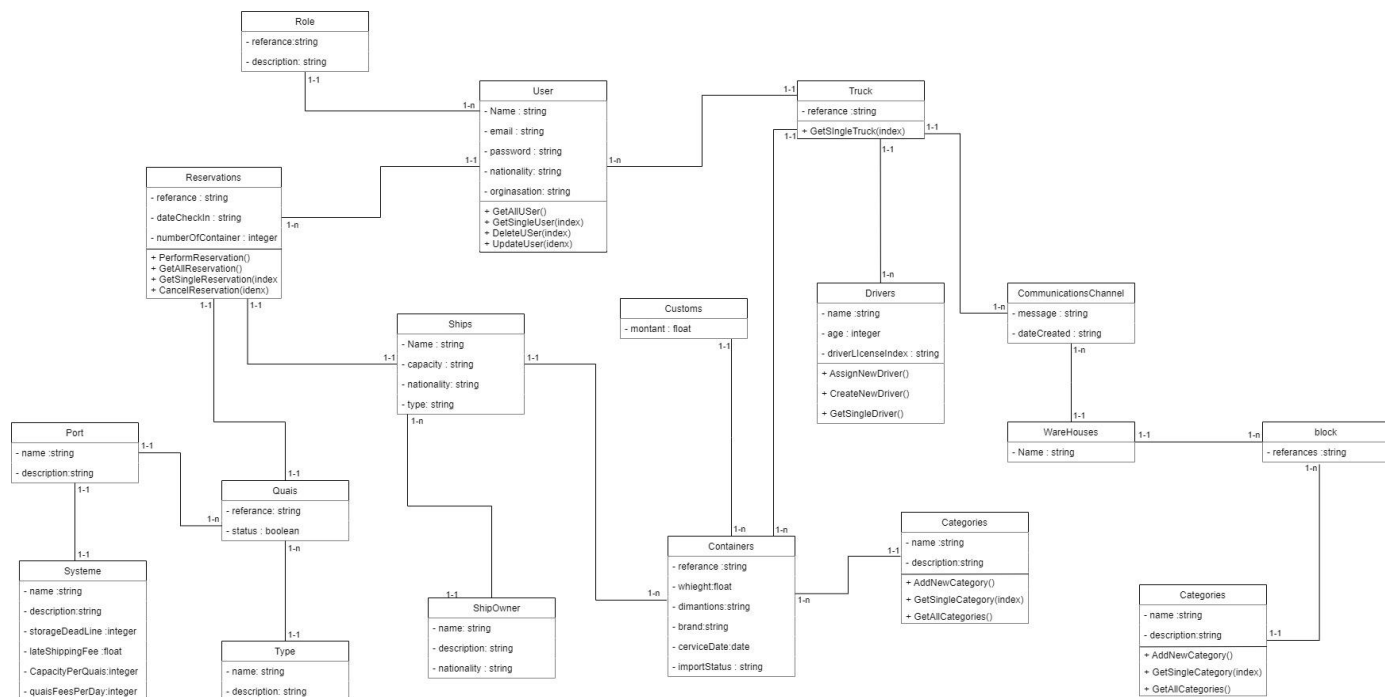
Problem :

The problem in our situation is that we must develop a system that meets both functional and non-functional requirements.

Conception:

Class diagram :

I used the class diagram to describe the main entities of the management system of the port as well as the appointment system.



Definitions of Entities:

User : Encompasses all the human entities that will use the reservations system or the inventory management systems.

☐ Functions :

- GetAllUser() : gives all user information registered in the system.
- GetSingleUser() : gives all the information about a user of the system.
- UdateUser() : modifies the information of a specific user given to the system.

Role : Contains the definition of each role of a certain user of the system (Admin, Transport provider, port commander...).

☐ **Functions :**

- `getSingleRole()` : gives information about certain roles in the system.
- `GetAllRoles()` : gives all the information of all the roles registered in the system.
- `AddNewRole()` : registers a new role in the system.

Réservation : Contains all reservations made by a supplier in the port's reservation system.

☐ **Functions :**

- `AddNewReservation()` : registers a new reservation in the system with the supplier information into consideration.
- `CancelReservations()` : Cancels a reservation already registered in the system this action and only available to System Administrators.

Quais : contains all the information concerning a container positioned in a storage warehouse or in a ship parked in a port quay.

☐ **Functions :**

- `GetSingleContainer()` : gives the container information into consideration.
- `GetAllContainers()` : gives all the information of the containers in the system.
- `AddNewCOntainer()` : register a container in the system.

Port : contient les informations du port comme l'adresse, les descriptions et autres.

☐ **Functions :**

- `GetPortData()` : gives all the formations of the port.
- `UpdatePortData()` : updates the information of the port already registered in the system.

WareHouse : Contains information from a specific warehouse or in-store container waiting to be delivered to the owner.

☐ **Functions :**

- getWareHouseData() : gives all the information of a certain warehouse located in the Port.
- UpdateWareHouseData() : modify the information already registered in the system.

ShipOwner : contains ship supplier information.

☐ **Functions:**

- getOwnerData() : gives the information of the owner of the ship.
- AddNewOwner() : registers a new owner to the system.

Système : contains the information (metaData) gives your we thought to affect certain functionality in the system.

☐ **Functions :**

- getSystemeData() : gives all port system information in order to use it to accomplish some necessary functionality in the system.
- UpdateSystemeData() : changes all port system information.

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