# Title: Use Case Overview for System Sub-Title: “Use Case Overview PA1435 Object Oriented Design” Date: 2018-04-04

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# System Description

The system is a created to get an overview of different warehouses. A user could for example be a worker at the warehouse that needs to easily get an overview of the current state (were trucks are, current inventory etc.) The main goal is for workers to easily locate where certain goods are stored, and to direct a truck to either fetch or deliver it to a desired location.

Managers of the warehouse, e.g administrators, can use the system to update the current inventory and get the numbers of each item and display details about the product. Users (Administrators is a user with extra privileges) also have the ability to communicate with each other by sending text messages.

The system will also provide the functionality for privileged users to expand or create new maps of warehouses.

## Use Cases

Name: A user can login

Actors: User, Administrator

Description: A user enters a username and password, gets logged in, and can access to the system.

Name: Send Message

Actors: User, Administrator

Description: User/Admin send private messages, by selecting another user/admin as a receiver and writing a message.

Name: Receive Message

Actors: User, Administrator

Description: User/Admin can receive and read private messages from other users/admins.

Name: Select Warehouse

Actors: User, Administrator

Description: A user/admin can select a warehouse from a list on the home screen to view and interact with.

Name: Create Warehouse

Actors: Administrator

Description: An administrator can create a warehouse through an interface only accessible by administrators.

Name: Display Warehouse

Actors: User, Administrator

Description: A user/admin can display a map of the currently selected warehouse. The map shows the warehouse’s isles, goods and trucks.

Name: Add Goods

Actors: User, Administrator

Description: A user can add goods to the warehouse. This is done by opening a window and selecting goods to be added from a list.

Name: Move Goods

Actors: User, Administrator

Description: A user can select goods and move it around using cursor keys.

Name: Edit Goods

Actors: User, Administrator

Description: A user can select goods and edit different attributes of the goods. These attributes are price, dimensions and weight.

Name: Tracking Trucks

Actors: User, Administrators

Description: A user can locate any truck live on the warehouse-map.

Name: Look at a trucks cargo

Actors: User, Administrators

Description: A user can select a truck and see what cargo it is carrying.

Name: Direct trucks

Actors: User, Administrators

Description: A user can select a truck and direct it to a new location by clicking on a valid location on the map.

Name: Lock truck or goods

Actors: User, Administrators

Description: Each item or truck will be locked when selected by any user. This means that another user cannot interact with the entity at the same time as another.

Name: Stack small Items

Actors: User, Administrators

Description: Smaller items can be stacked in a box called collection by placing a item on another similar item. This collection can be moved around the warehouse as one item.

Name: Organize Boxes Hierarchically

Actors: User, Administrators

Description: Goods can be a subtype of another item. For example Big-Boxes is the main-type and has the four sub-types: Cold-Storage, Hot-Storage, Soft-Box, Hard-Box. This means that these boxes has the same outer dimensions so that they easily can be organized and stacked together.

