3.3.6 Line Order and Delivery Web Application

In this Subsection, we build a new app called “AppLine” that allows a user to enter and place a line order or enter to realise a line delivery. A line order or delivery is the updating of the stock quantity of one item in one warehouse. The quantity is decreased in the case of a line order. The quantity is increased in the case of a delivery.

The user should be able to search and select an item, search and select a warehouse, indicate quantity and choose whether it is an order or a delivery.

If the line order or the line delivery is successful, the quantity of the respective item in the respective warehouse is updated accordingly to the line order or delivery. The message “Your line order or delivery has been accepted” is displayed.

If the line order cannot be placed because the stock for the item in the warehouse is insufficient. The line order is not placed. The stock remains unchanged. The message “Insufficient stock” is displayed.

Once the line order is placed or the line delivery is realised, the user can place a new line order or request a new line delivery.

在本小节中，我们构建一个名为“ AppLine”的新应用程序，该应用程序允许用户输入和下达订单或输入以实现订单交付。订单或交货是一个仓库中一项物料 (one item in one warehouse) 的库存量更新。在生产订单（order）的情况下数量减少。交货（delivery）时数量增加。

用户应该能够搜索并选择一个项目（item），搜索并选择一个仓库（warehouse），指示数量并选择是订单（order）还是交货（delivery）。

如果订单或订单成功交付，则相应于订单或订单更新相应仓库中各个物料的数量。显示消息“您的订单或交货已被接受”。“Your line order or delivery has been accepted”

如果由于仓库中物料的库存不足而无法下达订单。订单（order）不会下达。库存保持不变。显示消息“库存不足”。“Insufficient stock”

一旦下达订单或实现了订单交付，用户就可以下达新订单或请求新订单交付

Question 3.3.6.1 Implement the app “AppLine”. Use Django object relational mapping.

1. Pay attention to the fact that items not in stock in a warehouse are not recorded in the “stock” table for that warehouse.

请注意以下事实：仓库中没有库存的物品未记录在该仓库的“库存”表中。

1. From the user’s perspective the app can be a single interactive and dynamic Web page or a sequence of several successive Web pages (for instance, search and select. Prefer a more integrated and elegant answer.

从用户的角度来看，该应用程序可以是单个交互式动态网页，也可以是多个连续网页的序列（例如，搜索和选择）。首选更综合的答案。

1. Be encouraged to push the logic of the application into SQL using integrity constraints, transactions, views, functions and triggers, if necessary (e.g. for instance for the case of insufficient stock).

鼓励在必要时使用完整性约束，transactions, views, functions and triggers将应用程序的逻辑推入SQL中（例如，在库存不足的情况下）。

1. Use JavaScript to select the item and the warehouse from the result of the search. Define the foreground, background and font colours using CSS. Although you are free to experiment, JavaScript and CSS styles should otherwise mostly contribute to the functionalities of the app. Provide stepper arrows for adjusting the quantity. Do not use JQuery.

使用JavaScript从搜索结果中选择物料和仓库。使用CSS定义前景色，背景色和字体颜色。尽管您可以自由尝试，但JavaScript和CSS样式应主要有助于应用程序的功能。提供用于调整数量的步进箭头。不要使用JQuery。

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