

LEGO Inventory Database Manager



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INTRODUCTION

Problem

Inventory management is important part of managing a business. Products which make up the inventory need to be accounted for and managed to ensure accuracy of sales and stock. A database management system will

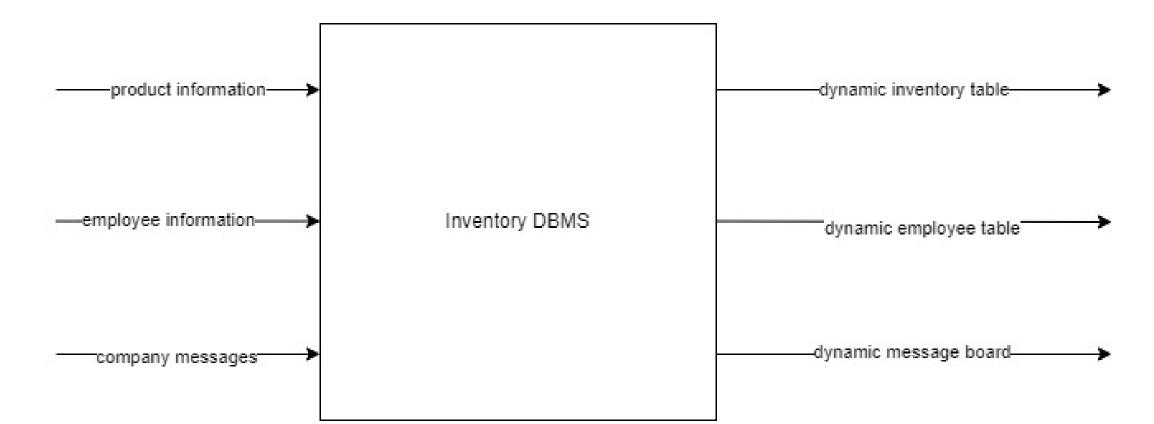


track the information associated with the product sold at the business.

Motivation

This problem is important to solve because business's that sell products will always need to keep track of their inventory and specific pieces of information tied to those products. The program is specifically tailored for the LEGO group and their retail businesses.

Solution



COURSE/ AUTHORS

Course:

CEN4010 Software Engineering (instructor: Dr. Upulee Kanewala)

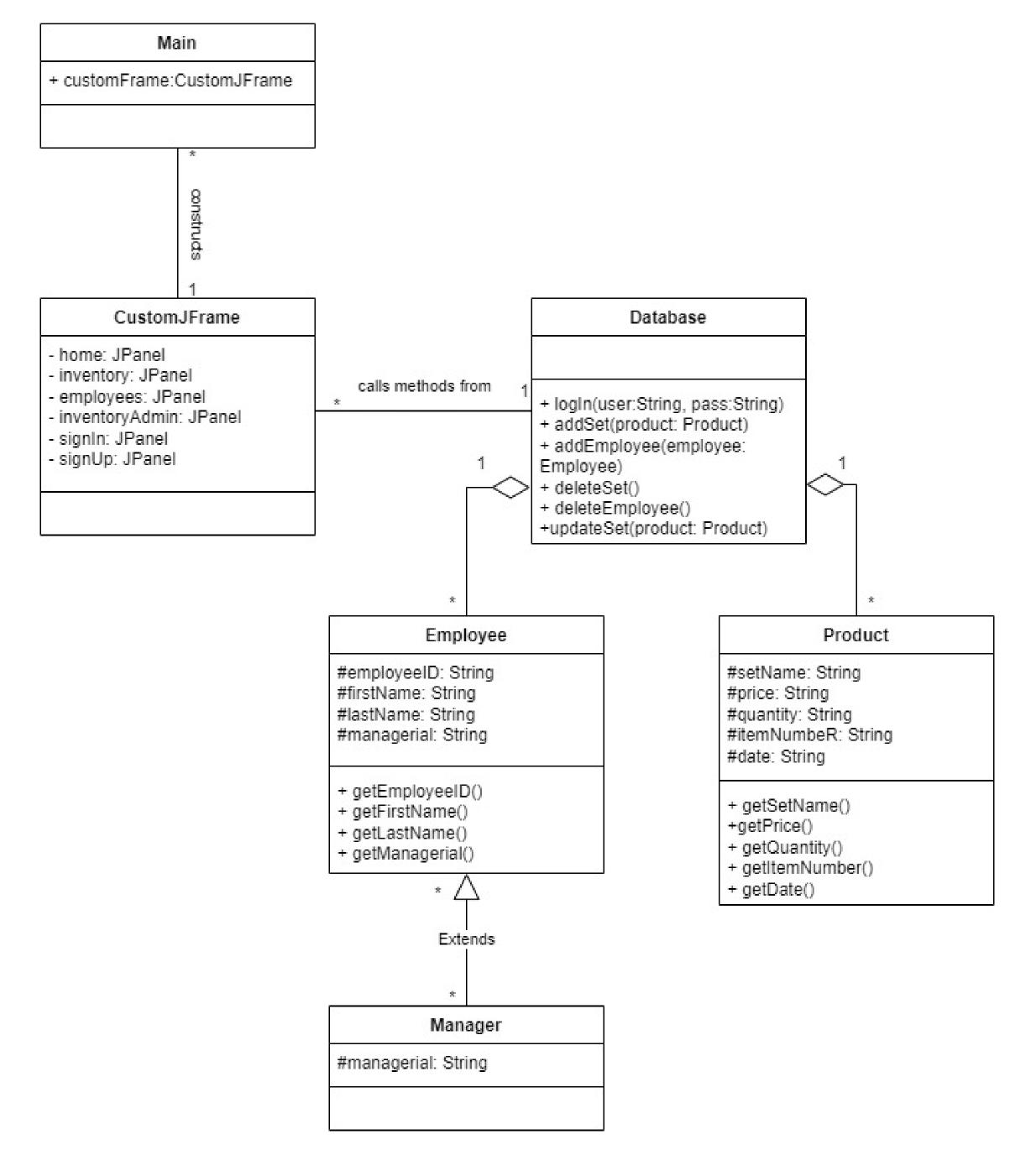
Authors:

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Trung Dinh

Soha Sindhwani

DESIGN



add/update product information

signInValidation()

signInValid == false

signInValidation()

retrievelnventory()

queriedInventoryTable `- -'---------

retrieveInventory()

addUpdateInfo(productInfo)

_queriedInventoryTable

queriedInventoryTable -

signInValid ---------

:Database

:CustomJFrame

SubmitLogin(String user, String pass)

─display incorrect login msg

select inventory btn

display home/ display admin menu

select admininventory b

display home/ display menu

select inventory btn

_display inven. page

select add/update btn

display submission window

submit product info.

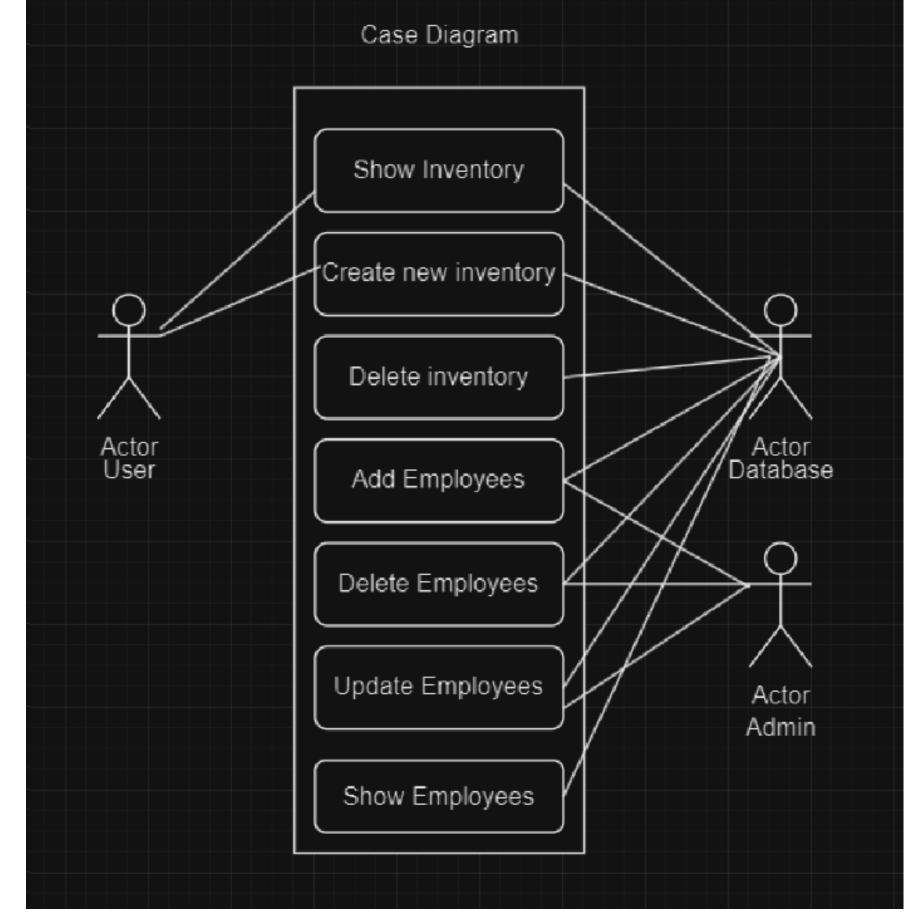
display updated inven

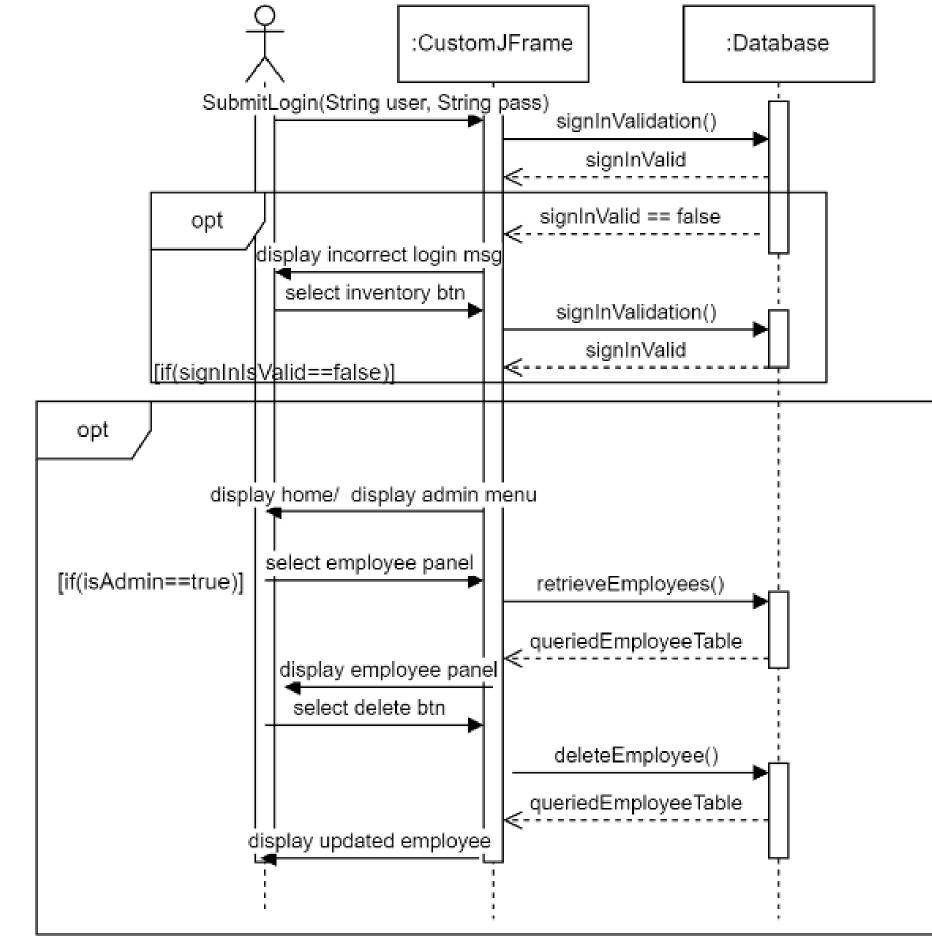
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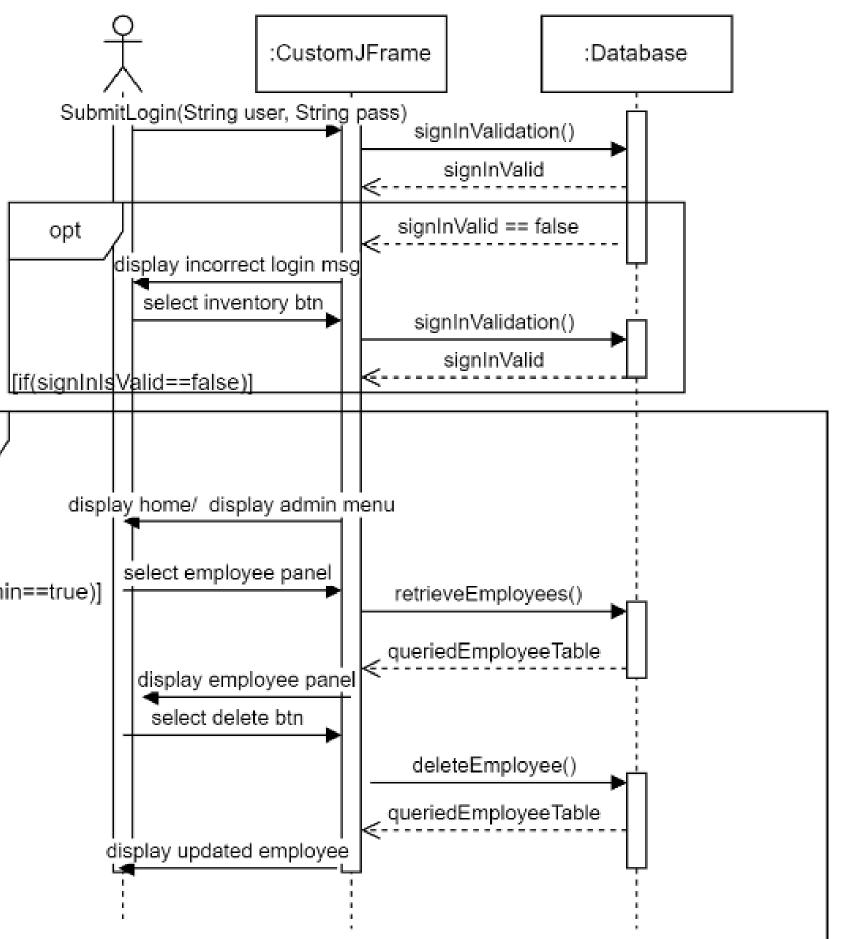
[else]

note: inven. = inventory





<u>deleteEmployee</u>



TECHNOLOGIES

- Oracle SQL Developer
 - Java
 - JUnit
 - Oracle JDBC
 - Eclipse IDE



NEXT STEPS

- Modern business initiatives usually entail tracking weight of cardboard when receiving shipments. The program could focus on storing that information as well.
- Images of the sets could be added for easier identification of the products being selected.
- Preparing a new database to connect the program to due to the current database being through a university account.
- In the final iteration of the project the program will have implemented a filtering/sorting feature.