PDC/SC Project 1: Warehouse Inventory System

Group: 63

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Introduction: The purpose of this system is to have good human-computer interaction and try to add functions for users. Whole program to automatically form a loop, so the system provides different experiences for two identities (administrator and customer). Implement different account logins in the current CUI. A shopping cart system was added for user, the shopping cart will be automatically cleared when the user logs out of the account. This inspired by <https://www.thewarehouse.co.nz/>.

System Concept: Separating the file storage, database, data, and corresponding methods of products and users can help solve problems more quickly when developing new features or when system errors occur. The system includes 12 classes, each class has a single function for the entire system which makes it more scalable and reliable.

* WareHouseInventorySystem: a Initial interface, CUI front-end dialog, information and command logging
* Admin: Front-end CUI dialogue for administrators, administrator home page.
* Customer: Front-end CUI dialogue for Customers, Customer home page.
* UserService: Managing authentication logic
* UserRepository: Data and file storage interface, including FileUserReoisitory, User
* User: Setting and getting user-specific data types
* FileUserRepository: File (User.txt) acquisition and storage
* FileProductRepository: File (Product.txt) acquisition and storage
* Product: Setting and getting product-specific data types
* ProductRepository: Data and file storage interface, including FileProductReoisitory, Product
* Inventory: Products management logic and method
* Cart: Shopping cart management logic and methods

Class diagram:

1. The arrows in the dotted line represent the path by which the system executes commands to obtain data.
2. Solid arrows represent visible pathways for system change.

图片包含 日程表

描述已自动生成

Learning Reference:

<https://programming.guide/java/list-of-java-exceptions.html>

<https://www.simplilearn.com/tutorials/java-tutorial/map-in-java>

<https://coderanch.com/t/729178/java/Count-total-price-items-HashMap>