

Programming 2 Assignment

POS System in Java

Group Members

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Justification Of Design Pattern

The following Objects will be created as stated below with their respective attributes:

Dealer

Name || Surname || password || username ||

- The Dealer is regarded as the administrator or the owner of the shop .
- He/she will have basic attributes to gain access to complete functions relevant to the business.
- The login page will take into account the Dealers credentials and take him to the admin panel
- The admin panel will allow the Dealer to view items currently in stock, items at reorder level and add items or remove items.
- The admin panel will also give the option for the dealer to view monthly transaction information in text Files.

Customer class

Name || Surname || username || password || bankAccount ||

- The Customer will have extend the bankAccount class which will have the relevant details concerning the payment.
- The customer will be able to purchase items and receive a receipt as well as a bank statement.
- The password and username is used to make sure that other customers do not gain access to other customers accounts.

BankAccount Class

cardNumber || pin || balance ||

- A bankAccount is assigned to each customer.
- the pin is defined by the customer and allows the payment to be completed if the password is correct and if the balance is enough to facilitate the transaction

Cart Class

item ||

- The cart class contains an list of items selected by the customer.

Item

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name || price || stockLevel ||
```

- The item class has basic information on the products.
- The stockLevel attribute is used to calculate the stock level after the dealer restocks or the customer purchases the item.

transaction

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list || date ||
```

- will be used to write to files for monthly reports