WareHouse Management System

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Chapter 1

Hierarchical Index

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This inheritance list is sorted roughly, but not completely, alphabetically:

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Class Index

2.1 Class List

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Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

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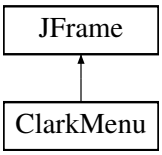
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/InvoiceList.java 92
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ItemList.java 92
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/LoadFileMenu.java 93
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ManagerMenu.java 93
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OpeningMenu.java 93
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Order.java 93
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OrderedProduct.java 93
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OrderIdServer.java 93
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OrderList.java 94
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Payment.java 94
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/PaymentList.java 94
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Product.java 94
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ProductIdServer.java 94
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ProductList.java 94
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/WaitListProduct.java 95
C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Warehouse.java 95

Chapter 4

Class Documentation

4.1 ClarkMenu Class Reference

Inheritance diagram for ClarkMenu:



Public Member Functions

- ClarkMenu (Warehouse w)

  Create the frame for Clark menu.
- void close ()

  close frame for clark menu

Static Public Member Functions

- static void displayProductList ()

  Display Product Button in clark menu.
- static void makePayment ()

  make Accept paymant Button

Static Private Member Functions

- static void addClient ()

  AddClient Button in clark menu.
- static void showWaitList ()

  Display waitlist for a product button.

Private Attributes

- JPanel contentPane

  object for jpanel to create a pannel for clark menu

Static Private Attributes

- static Warehouse warehouse

  Ware house oject holding the entire data of warehouse.

4.1.1 Constructor & Destructor Documentation

4.1.1.1 ClarkMenu()

```
ClarkMenu.ClarkMenu (
            Warehouse w )
```

Create the frame for Clark menu.

4.1.2 Member Function Documentation

4.1.2.1 addClient()

```
static void ClarkMenu.addClient ( )  [static], [private]
```

AddClient Button in clark menu.

Add clients in the system

4.1.2.2 close()

```
void ClarkMenu.close ( )
```

close frame for clark menu

4.1.2.3 displayProductList()

```
static void ClarkMenu.displayProductList ( )  [static]
```

Display Product Button in clark menu.

Displays the list of product in the warehouse

4.1.2.4 makePayment()

```
static void ClarkMenu.makePayment ( )  [static]
```

make Accept paymant Button

select a client from a list of client who wants to make a payment make a Payment for the selected client

4.1.2.5 showWaitList()

```
static void ClarkMenu.showWaitList ( )  [static], [private]
```

Display waitlist for a product button.

Select a product from a list of product displays a list of client waiting for the product

4.1.3 Member Data Documentation

4.1.3.1 contentPane

```
JPanel ClarkMenu.contentPane  [private]
```

object for jpanel to create a pannel for clark menu

4.1.3.2 warehouse

```
Warehouse ClarkMenu.warehouse  [static], [private]
```

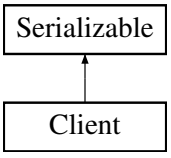
Ware house ofject holding the entire data of warehouse.

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ClarkMenu.java

4.2 Client Class Reference

Inheritance diagram for Client:



Public Member Functions

- Client (String cName, String addr)

  initialize client onject
- void addInvoice (Invoice newInvoice)

  Add Invoice for Client.
- void addPayment (Payment newPayment)

  Add Payment for Client.
- void addToCart (Product p, int quantity)

  Add item to Client shoppingcart.
- void changeItemQuantity (Product p, int q)

  Updates quantity of items already in cart.
- void clearCart ()

  Removes all items from client shoppingcart.
- Iterator< OrderedProduct > getCart ()

  Returns the list of product that client odered as iterator.
- String getClientAddress ()

  Returns address of client.
- double getClientBalance ()

  Returns the balance of client.
- int getId ()

  Returns ID of client.
- ArrayList< Invoice > getInvoiceArrayList ()

  Returns the list of payment of client as arraylist.
- Iterator< Invoice > getInvoices ()

  Returns the list of invoice of client as iterator.
- String getName ()

  Returns name of client.
- Iterator< Payment > getPayments ()

  Returns the list of payment of client as iterator.
- ArrayList< Payment > getPaymentsArrayList ()

  Returns the list payment of client as arraylist.
- ArrayList< OrderedProduct > getShoppingCart ()

  Returns the list of payment of client as iterator.
- void RemoveFromCart (Product p)

  remove item from Client shoppingcart
- void setAddress (String addr)

  set client Address
- void setBalance (double change)

  set client balance
- void setClientName (String cName)

  set client name
- String toString ()

  Coinvet client data to string

Private Attributes

- String address

  Holds client address.
- double balanceDue

  Holds client balance thet is to payed.
- int clientId

  Holds client id.
- InvoiceList myInvoices

  Holds client list of invoice.
- PaymentList myPayments

  Holds client list of payment made.
- String name

  Holds client name.
- ItemList shoppingCart

  Holds client list of products in shoping cart.

Static Private Attributes

- static final long serialVersionUID = 1L

4.2.1 Constructor & Destructor Documentation

4.2.1.1 Client()

```
Client.Client (
            String cName,
            String addr )
```

initialize client onject

4.2.2 Member Function Documentation

4.2.2.1 addInvoice()

```
void Client.addInvoice (
            Invoice newInvoice )
```

Add Invoice for Client.

4.2.2.2 addPayment()

```
void Client.addPayment (
            Payment newPayment )
```

Add Payment for Client.

4.2.2.3 addToCart()

```
void Client.addToCart (
            Product p,
            int quantity )
```

Add item to Client shoppingcart.

4.2.2.4 changeItemQuantity()

```
void Client.changeItemQuantity (
            Product p,
            int q )
```

Updates quantity of items already in cart.

4.2.2.5 clearCart()

```
void Client.clearCart ( )
```

Removes all items from client shoppingcart.

4.2.2.6 getCart()

```
Iterator< OrderedProduct > Client.getCart ( )
```

Returns the list of product that client odered as iterator.

4.2.2.7 getClientAddress()

```
String Client.getClientAddress ( )
```

Returns address of client.

4.2.2.8 getClientBalance()

```
double Client.getClientBalance ( )
```

Returns the balance of client.

4.2.2.9 getId()

```
int Client.getId ( )
```

Returns ID of client.

4.2.2.10 getInvoiceArrayList()

```
ArrayList< Invoice > Client.getInvoiceArrayList ( )
```

Returns the list of payment of client as arraylist.

4.2.2.11 getInvoices()

```
Iterator< Invoice > Client.getInvoices ( )
```

Returns the list of invoice of client as iterator.

4.2.2.12 getName()

```
String Client.getName ( )
```

Returns name of client.

4.2.2.13 getPayments()

```
Iterator< Payment > Client.getPayments ( )
```

Returns the list of payment of client as iterator.

4.2.2.14 getPaymentsArrayList()

```
ArrayList< Payment > Client.getPaymentsArrayList ( )
```

Returns the list payment of client as arraylist.

4.2.2.15 getShoppingCart()

```
ArrayList< OrderedProduct > Client.getShoppingCart ( )
```

Returns the list of payment of client as iterator.

4.2.2.16 RemoveFromCart()

```
void Client.RemoveFromCart (
            Product p )
```

remove item from Client shoppingcart

4.2.2.17 setAddress()

```
void Client.setAddress (
            String addr )
```

set client Address

4.2.2.18 setBalance()

```
void Client.setBalance (
            double change )
```

set client balance

4.2.2.19 setClientName()

```
void Client.setClientName (
            String cName )
```

set client name

4.2.2.20 toString()

```
String Client.toString ( )
```

Coinvet client data to string

4.2.3 Member Data Documentation

4.2.3.1 address

```
String Client.address  [private]
```

Holds client address.

4.2.3.2 balanceDue

```
double Client.balanceDue  [private]
```

Holds client balance thet is to payed.

4.2.3.3 clientId

```
int Client.clientId  [private]
```

Holds client id.

4.2.3.4 myInvoices

```
InvoiceList Client.myInvoices  [private]
```

Holds client list of invoice.

4.2.3.5 myPayments

```
PaymentList Client.myPayments  [private]
```

Holds client list of payment made.

4.2.3.6 name

```
String Client.name  [private]
```

Holds client name.

4.2.3.7 serialVersionUID

```
final long Client.serialVersionUID = 1L  [static], [private]
```

4.2.3.8 shoppingCart

```
ItemList Client.shoppingCart  [private]
```

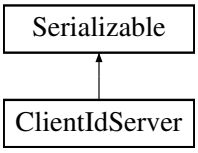
Holds client list of products in shoping cart.

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Client.java

4.3 ClientIdServer Class Reference

Inheritance diagram for ClientIdServer:



Public Member Functions

- int getId ()
  reterns the clientid counter
- String toString ()
  convert data to string in clientidserver

Static Public Member Functions

- static ClientIdServer instance ()
  initialize client id server
- static void retrieve (ObjectInputStream in)
  retrive fron inputstream

Private Member Functions

- ClientIdServer ()

  controler for client id server
- void readObject (java.io.ObjectInputStream in) throws IOException, ClassNotFoundException

  read object fron input stream
- void writeObject (java.io.ObjectOutputStream out) throws IOException

  write object to out stream

Private Attributes

- int idCounter

  counter for no of clients

Static Private Attributes

- static ClientIdServer server

4.3.1 Constructor & Destructor Documentation

4.3.1.1 ClientIdServer()

```
ClientIdServer.ClientIdServer ( )  [private]
```

controler for client id server

initialize client id counter to 1

4.3.2 Member Function Documentation

4.3.2.1 getId()

```
int ClientIdServer.getId ( )
```

reterns the clientid counter

4.3.2.2 instance()

```
static ClientIdServer ClientIdServer.instance ( )  [static]
```

initialize client id server

4.3.2.3 readObject()

```
void ClientIdServer.readObject (
            java.io.ObjectInputStream in ) throws IOException, ClassNotFoundException  [private]
```

read object fron input stream

4.3.2.4 retrieve()

```
static void ClientIdServer.retrieve (
            ObjectInputStream in )  [static]
```

retrive fron inputstream

4.3.2.5 toString()

```
String ClientIdServer.toString ( )
```

convert data to string in clientidserver

4.3.2.6 writeObject()

```
void ClientIdServer.writeObject (
            java.io.ObjectOutputStream out ) throws IOException  [private]
```

write object to out stream

4.3.3 Member Data Documentation

4.3.3.1 idCounter

```
int ClientIdServer.idCounter  [private]
```

counter for no of clients

4.3.3.2 server

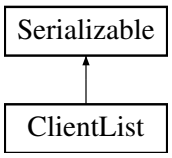
```
ClientIdServer ClientIdServer.server  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ClientIdServer.java

4.4 ClientList Class Reference

Inheritance diagram for ClientList:



Public Member Functions

- ClientList ()
  Client List Controller.
- void addClient (Client c)
  Adds a Client to Client List
- Client findClient (int id)
  Find Client in Client List.
- ArrayList< Client > getArrayList ()
  returns clientlist as arraylist
- Iterator< Client > getIterator ()
  returns clientlist as an Iterator
- void removeClient (Client c)
  Remove Client from Client List.
- String toString ()
  convert clientlist to string

Static Public Member Functions

- static ClientList instance ()
  initializes client list

Private Member Functions

- void readObject (java.io.ObjectInputStream input)

  read client ofjest from inputfile stream
- void writeObject (java.io.ObjectOutputStream output)

  write clientlist to outputfile stream

Private Attributes

- ArrayList< Client > clients

  array list of clients

Static Private Attributes

- static ClientList clientList

  classobject of clientlist that hold the list of client
- static final long serialVersionUID = 1L

4.4.1 Constructor & Destructor Documentation

4.4.1.1 ClientList()

```
ClientList.ClientList ( )
```

Client List Controller.

initialize client list

4.4.2 Member Function Documentation

4.4.2.1 addClient()

```
void ClientList.addClient (
            Client c )
```

Adds a Client to Client List

4.4.2.2 findClient()

```
Client ClientList.findClient (
            int id )
```

Find Client in Client List.

Returns Client ID or NULL

4.4.2.3 getArrayList()

```
ArrayList< Client > ClientList.getArrayList ( )
```

returns clientlist as arraylist

4.4.2.4 getIterator()

```
Iterator< Client > ClientList.getIterator ( )
```

returns clientlist as an Iterator

4.4.2.5 instance()

```
static ClientList ClientList.instance ( )  [static]
```

initializes client list

4.4.2.6 readObject()

```
void ClientList.readObject (
            java.io.ObjectInputStream input )  [private]
```

read client ofjest from inputfile stream

4.4.2.7 removeClient()

```
void ClientList.removeClient (
            Client c )
```

Remove Client from Client List.

4.4.2.8 toString()

```
String ClientList.toString ( )
```

convert clientlist to string

4.4.2.9 writeObject()

```
void ClientList.writeObject (
            java.io.ObjectOutputStream output )  [private]
```

write clientlist to outputfile stream

4.4.3 Member Data Documentation

4.4.3.1 clientList

```
ClientList ClientList.clientList  [static], [private]
```

classobject of clientlist that hold the list of client

4.4.3.2 clients

```
ArrayList<Client> ClientList.clients  [private]
```

array list of clients

4.4.3.3 serialVersionUID

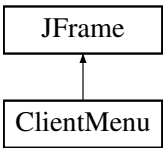
```
final long ClientList.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ClientList.java

4.5 ClientMenu Class Reference

Inheritance diagram for ClientMenu:



Public Member Functions

- ClientMenu (Warehouse w, Client C)

  Launch the application.
- void close ()

  close clientmenu frame

Static Public Member Functions

- static void displayProductList ()

  Show List Of Product Button.
- static void displayWaitList (Client c)

  display client's wait list Button
- static void placeOrder (Client c)

  Place an odor button.

Static Private Member Functions

- static void displayClientDetails (Client c)

  Display Client Detail Button.
- static void displayClientTransactions (Client c)

  show client's transaction Button

Private Attributes

- JPanel contentPane

  jpanel object for clientmenu

Static Private Attributes

- static Client client

  client object that is being operated in clientmenu
- static Warehouse warehouse

  warehouse ofject that holds the entire data of warehouse

4.5.1 Constructor & Destructor Documentation

4.5.1.1 ClientMenu()

```
ClientMenu.ClientMenu (
            Warehouse w,
            Client C )
```

Launch the application.

Create the clientmanu frame.

4.5.2 Member Function Documentation

4.5.2.1 close()

```
void ClientMenu.close ( )
```

close clientmenu frame

4.5.2.2 displayClientDetails()

```
static void ClientMenu.displayClientDetails (
            Client c )  [static], [private]
```

Display Client Detail Button.

Displays the detail of the client

4.5.2.3 displayClientTransactions()

```
static void ClientMenu.displayClientTransactions (
            Client c )  [static], [private]
```

show client's transaction Button

Displays all the tranjection that client has made

4.5.2.4 displayProductList()

```
static void ClientMenu.displayProductList ( )  [static]
```

Show List Of Product Button.

Display the list of product in the warehouse

4.5.2.5 displayWaitList()

```
static void ClientMenu.displayWaitList (
            Client c )  [static]
```

display client's wait list Button

display the list of products that are waitlisted

4.5.2.6 placeOrder()

```
static void ClientMenu.placeOrder (
            Client c )  [static]
```

Place an odor button.

place odor for all the items in clients shoping cart

4.5.3 Member Data Documentation

4.5.3.1 client

```
Client ClientMenu.client  [static], [private]
```

client object that is being operated in clientmenu

4.5.3.2 contentPane

```
JPanel ClientMenu.contentPane  [private]
```

jpanel object for clientmenu

4.5.3.3 warehouse

```
Warehouse ClientMenu.warehouse  [static], [private]
```

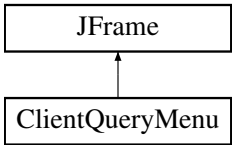
warehouse oject that holds the entire data of warehouse

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ClientMenu.java

4.6 ClientQueryMenu Class Reference

Inheritance diagram for ClientQueryMenu:



Public Member Functions

- ClientQueryMenu (Warehouse w)
  Create the frame for clientquerymenu.
- void close ()
  close frame for ClientQuery Menu

Static Public Member Functions

- static void displayOutstandingBalances ()
  Display List of Client With OutStanding Balance Button.
- static void noTransactionsClients ()
  Display List of Client With No Transaction In Last 6 month.

Static Private Member Functions

- static void displayAllClients ()
  display all client button

Private Attributes

- JPanel contentPane
  jpanel object for clientquerymenu

Static Private Attributes

- static Warehouse warehouse

  warehouse object that holds the entire data od warehouse

4.6.1 Constructor & Destructor Documentation

4.6.1.1 ClientQueryMenu()

```
ClientQueryMenu.ClientQueryMenu (
            Warehouse w )
```

Create the frame for clientquerymenu.

4.6.2 Member Function Documentation

4.6.2.1 close()

```
void ClientQueryMenu.close ( )
```

close frame for ClientQuery Menu

4.6.2.2 displayAllClients()

```
static void ClientQueryMenu.displayAllClients ( )  [static], [private]
```

display all client button

displays the list of client in warehouse system

4.6.2.3 displayOutstandingBalances()

```
static void ClientQueryMenu.displayOutstandingBalances ( )  [static]
```

Display List of Client With OutStanding Balance Button.

Displays clients with outstanding balance

4.6.2.4 noTransactionsClients()

```
static void ClientQueryMenu.noTransactionsClients ( )  [static]
```

Display List of Client With No Transaction In Last 6 month.

Displays clients that dident perform anytransaction in last 6 months

4.6.3 Member Data Documentation

4.6.3.1 contentPane

```
JPanel ClientQueryMenu.contentPane  [private]
```

jpanel object for clientquerymenu

4.6.3.2 warehouse

```
Warehouse ClientQueryMenu.warehouse  [static], [private]
```

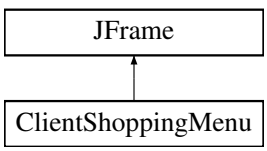
warehouse object that holds the entire data od warehouse

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ClientQueryMenu.java

4.7 ClientShoppingMenu Class Reference

Inheritance diagram for ClientShoppingMenu:



Public Member Functions

- ClientShoppingMenu (Client C, Warehouse w)

  Create the frame for ClientShopping menu.
- void close ()

  Close frame for Client Shopping Menu.

Static Public Member Functions

- static void addToWishList (Client C)

  Add Product to shopping list.
- static void displayWishList (Client C)

  Show List of All Product in shopping List Button.
- static void modifyWishList (Client c)

  Edit Shoping Cart Button.
- static void removeFromWishList (Client c)

  Remove Product In Shoping List Button.

Private Attributes

- JPanel contentPane

Static Private Attributes

- static Client client
- static Warehouse warehouse

4.7.1 Constructor & Destructor Documentation

4.7.1.1 ClientShoppingMenu()

```
ClientShoppingMenu.ClientShoppingMenu (
            Client C,
            Warehouse w )
```

Create the frame for ClientShopping menu.

4.7.2 Member Function Documentation

4.7.2.1 addToWishList()

```
static void ClientShoppingMenu.addToWishList (
            Client C )  [static]
```

Add Product to shopping list.

make a selection from a list of product and add the selection to the clients shopping cart

4.7.2.2 close()

```
void ClientShoppingMenu.close ( )
```

Close frame for Client Shopping Menu.

4.7.2.3 displayWishList()

```
static void ClientShoppingMenu.displayWishList (
            Client C )  [static]
```

Show List of All Product in shopping List Button.

displays all the products in the shopping list of a client

4.7.2.4 modifyWishList()

```
static void ClientShoppingMenu.modifyWishList (
            Client c )  [static]
```

Edit Shoping Cart Button.

SELECT A PRODUCT FROM THE SHOPPING CART edit the quantity of the selected product

4.7.2.5 removeFromWishList()

```
static void ClientShoppingMenu.removeFromWishList (
            Client c )  [static]
```

Remove Product In Shoping List Button.

makes a selection from a list of product in the shoping cart removes the selected product from the shopping cart

4.7.3 Member Data Documentation

4.7.3.1 client

```
Client ClientShoppingMenu.client  [static], [private]
```

4.7.3.2 contentPane

```
JPanel ClientShoppingMenu.contentPane  [private]
```

4.7.3.3 warehouse

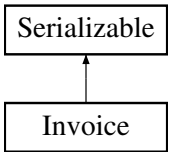
```
Warehouse ClientShoppingMenu.warehouse  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ClientShoppingMenu.java

4.8 Invoice Class Reference

Inheritance diagram for Invoice:



Public Member Functions

- Invoice (Client client)

  Constructor for Invoice.
- void addItem (OrderedProduct i)

  Add products thet are odered by client to invoice.
- void applyInvoice ()

  Sends invoice to client account, updates their balance.
- LocalDateTime getDate ()

  Returns invoice date.
- double getInvoiceAmount ()

  Returns total invoice amount
- String itemListString ()

  Display all the the detail of invioce.
- String toString ()

  convert data in invoice bto string

Private Attributes

- double amount
- Client clientAccount
- LocalDateTime date
- ItemList items

Static Private Attributes

- static final DateTimeFormatter dateFormat = DateTimeFormatter.ofPattern("yyyy MM dd")
- static final long serialVersionUID = 1L

4.8.1 Constructor & Destructor Documentation

4.8.1.1 Invoice()

```
Invoice.Invoice (
            Client client )
```

Constructor for Invoice.

Inicialize required datafields

4.8.2 Member Function Documentation

4.8.2.1 addItem()

```
void Invoice.addItem (
            OrderedProduct i )
```

Add products thet are odered by client to invoice.

4.8.2.2 applyInvoice()

```
void Invoice.applyInvoice ( )
```

Sends invoice to client account, updates their balance.

4.8.2.3 getDate()

```
LocalDateTime Invoice.getDate ( )
```

Returns invoice date.

4.8.2.4 getInvoiceAmount()

```
double Invoice.getInvoiceAmount ( )
```

Returns total invoice amount

4.8.2.5 itemListString()

```
String Invoice.itemListString ( )
```

Display all the the detail of invioce.

4.8.2.6 toString()

```
String Invoice.toString ( )
```

convert data in invoice bto string

4.8.3 Member Data Documentation

4.8.3.1 amount

```
double Invoice.amount  [private]
```

4.8.3.2 clientAccount

```
Client Invoice.clientAccount  [private]
```

4.8.3.3 date

```
LocalDateTime Invoice.date  [private]
```

4.8.3.4 dateFormat

```
final DateTimeFormatter Invoice.dateFormat = DateTimeFormatter.ofPattern("yyyy MM dd")  [static], [private]
```

4.8.3.5 items

```
ItemList Invoice.items  [private]
```

4.8.3.6 serialVersionUID

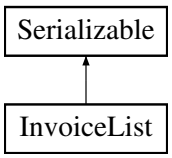
```
final long Invoice.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Invoice.java

4.9 InvoiceList Class Reference

Inheritance diagram for InvoiceList:



Public Member Functions

- InvoiceList ()
  Creates new empty invoice list
- void addInvoice (Invoice in)
  Add Invoice to Client Invoice List.
- Iterator< Invoice > getInvoice ()
  Iterator that iterates through Invoiclist
- ArrayList< Invoice > getInvoicesArrayList ()
  Returns the invoicelist as arraylist
- void removeInvoice (Invoice in)
  Remove invoice from Client Invoice List
- String toString ()
  converts invoice data to string

Private Attributes

- ArrayList< Invoice > invoices

Static Private Attributes

- static final long serialVersionUID = 1L

4.9.1 Constructor & Destructor Documentation

4.9.1.1 InvoiceList()

```
InvoiceList.InvoiceList ( )
```

Creates new empty invoice list

4.9.2 Member Function Documentation

4.9.2.1 addInvoice()

```
void InvoiceList.addInvoice (
            Invoice in )
```

Add Invoice to Client Invoice List.

4.9.2.2 getInvoice()

```
Iterator< Invoice > InvoiceList.getInvoice ( )
```

Iterator that iterates through Invoiclist

4.9.2.3 getInvoicesArrayList()

```
ArrayList< Invoice > InvoiceList.getInvoicesArrayList ( )
```

Returns the invoicelist as arraylist

4.9.2.4 removeInvoice()

```
void InvoiceList.removeInvoice (
            Invoice in )
```

Remove invoice from Client Invoice List

4.9.2.5 toString()

```
String InvoiceList.toString ( )
```

converts invoice data to string

4.9.3 Member Data Documentation

4.9.3.1 invoices

```
ArrayList<Invoice> InvoiceList.invoices  [private]
```

4.9.3.2 serialVersionUID

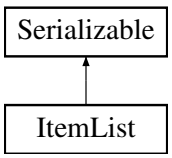
```
final long InvoiceList.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/InvoiceList.java

4.10 ItemList Class Reference

Inheritance diagram for ItemList:



Public Member Functions

- ItemList ()
- void addItem (OrderedProduct item)

  Add product to list.
- void addItem (Product newProduct, int quantity)

  Create new item to add to list.
- void changeQuantity (Product changeProduct, int quantity)

  Change quantity of product
- void clear ()

  Gives ItemList a blank list to refer to.
- ArrayList< OrderedProduct > getItemList ()

  returns the itemlist as array list
- Iterator< OrderedProduct > getIterator ()

  Iterate through Item List.
- void removeItem (Product removeProduct)

  Remove product from list
- String toString ()

  return item list data a string

Private Attributes

- ArrayList< OrderedProduct > itemList

Static Private Attributes

- static final long serialVersionUID = 1L

4.10.1 Constructor & Destructor Documentation

4.10.1.1 ItemList()

```
ItemList.ItemList ( )
```

4.10.2 Member Function Documentation

4.10.2.1 addItem() [1/2]

```
void ItemList.addItem (
            OrderedProduct item )
```

Add product to list.

4.10.2.2 addItem() [2/2]

```
void ItemList.addItem (
            Product newProduct,
            int quantity )
```

Create new item to add to list.

4.10.2.3 changeQuantity()

```
void ItemList.changeQuantity (
            Product changeProduct,
            int quantity )
```

Change quantity of product

4.10.2.4 clear()

```
void ItemList.clear ( )
```

Gives ItemList a blank list to refer to.

4.10.2.5 getItemList()

```
ArrayList< OrderedProduct > ItemList.getItemList ( )
```

returns the itemlist as array list

4.10.2.6 getIterator()

```
Iterator< OrderedProduct > ItemList.getIterator ( )
```

Iterate through Item List.

4.10.2.7 removeItem()

```
void ItemList.removeItem (
            Product removeProduct )
```

Remove product from list

4.10.2.8 toString()

```
String ItemList.toString ( )
```

return item list data a string

4.10.3 Member Data Documentation

4.10.3.1 itemList

```
ArrayList<OrderedProduct> ItemList.itemList  [private]
```

4.10.3.2 serialVersionUID

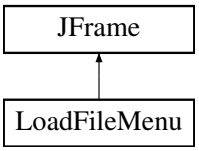
```
final long ItemList.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ItemList.java

4.11 LoadFileMenu Class Reference

Inheritance diagram for LoadFileMenu:



Public Member Functions

- LoadFileMenu ()
  Create the frame for loadFileMenu.
- void close ()

Static Public Member Functions

- static void main (String[ ] args)
  Launch the application.
- static void OpenOpeningMenu ()
  opens the mainmenu
- static void saveChanges (String file, Warehouse warehouse)
  Saves changes made to warehosue

Static Public Attributes

- static Warehouse warehouse

Static Package Attributes

- static final String FILENAME = "WareData"

Static Private Member Functions

- static Warehouse openWarehouse (String file)
  open and load previously stored warehouse data

Private Attributes

- JPanel contentPane

4.11.1 Constructor & Destructor Documentation

4.11.1.1 LoadFileMenu()

```
LoadFileMenu.LoadFileMenu ( )
```

Create the frame for loadFileMenu.

4.11.2 Member Function Documentation

4.11.2.1 close()

```
void LoadFileMenu.close ( )
```

4.11.2.2 main()

```
static void LoadFileMenu.main (
            String[] args )  [static]
```

Launch the application.

4.11.2.3 OpenOpeningMenu()

```
static void LoadFileMenu.OpenOpeningMenu ( )  [static]
```

opens the mainmenu

4.11.2.4 openWarehouse()

```
static Warehouse LoadFileMenu.openWarehouse (
            String file )  [static], [private]
```

open and load previously stored warehouse data

4.11.2.5 saveChanges()

```
static void LoadFileMenu.saveChanges (
            String file,
            Warehouse warehouse )  [static]
```

Saves changes made to warehosue

4.11.3 Member Data Documentation

4.11.3.1 contentPane

```
JPanel LoadFileMenu.contentPane  [private]
```

4.11.3.2 FILENAME

```
final String LoadFileMenu.FILENAME = "WareData"  [static], [package]
```

4.11.3.3 warehouse

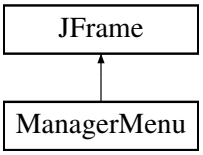
```
Warehouse LoadFileMenu.warehouse  [static]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/LoadFileMenu.java

4.12 ManagerMenu Class Reference

Inheritance diagram for ManagerMenu:



Public Member Functions

- ManagerMenu (Warehouse w)
  create a frame for ManagerMenu
- void close ()
  Close Frame for ManagerMenu.

Static Public Member Functions

- static void ProcessShipment ()
  Recieve Shipment Button.

Static Private Member Functions

- static void addProduct ()

  add product Button

Private Attributes

- JPanel contentPane

  create Jpannel object for ManagerMenu

Static Private Attributes

- static Warehouse warehouse

  holds the entire data of warehouse sysyem

4.12.1 Constructor & Destructor Documentation

4.12.1.1 ManagerMenu()

```
ManagerMenu.ManagerMenu (
            Warehouse w )
```

create a frame for ManagerMenu

4.12.2 Member Function Documentation

4.12.2.1 addProduct()

```
static void ManagerMenu.addProduct ( )  [static], [private]
```

add product Button

add new product in warehouse invebtory

4.12.2.2 close()

```
void ManagerMenu.close ( )
```

Close Frame for ManagerMenu.

4.12.2.3 ProcessShipment()

```
static void ManagerMenu.ProcessShipment ( )  [static]
```

Recieve Shipment Button.

select product from the list of produst in the warehouse update the inventory after shipment for the product is received

4.12.3 Member Data Documentation

4.12.3.1 contentPane

```
JPanel ManagerMenu.contentPane  [private]
```

create Jpannel object for ManagerMenu

4.12.3.2 warehouse

```
Warehouse ManagerMenu.warehouse  [static], [private]
```

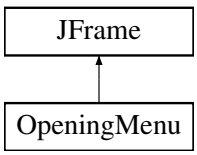
holds the entire data of warehouse sysyem

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ManagerMenu.java

4.13 OpeningMenu Class Reference

Inheritance diagram for OpeningMenu:



Public Member Functions

- OpeningMenu (Warehouse w)
  Create the frame for Main Menu.
- void close ()
  close frame for the Main Menu

Static Public Member Functions

- static boolean CLientIDLogin (int ID)

  Client Menu Button.
- static int YesOrNo (String Title, String Message)

  Open Jpannel for Yes and no option selection.

Static Package Attributes

- static final String FILENAME = "WareData"

Static Private Attributes

- static JPanel contentPane
- static Warehouse warehouse

4.13.1 Constructor & Destructor Documentation

4.13.1.1 OpeningMenu()

```
OpeningMenu.OpeningMenu (
            Warehouse w )
```

Create the frame for Main Menu.

4.13.2 Member Function Documentation

4.13.2.1 CLientIDLogin()

```
static boolean OpeningMenu.CLientIDLogin (
            int ID )  [static]
```

Client Menu Button.

Select a client and open clientmenu for that client

4.13.2.2 close()

```
void OpeningMenu.close ( )
```

close frame for the Main Menu

4.13.2.3 YesOrNo()

```
static int OpeningMenu.YesOrNo (
             String Title,
             String Message )  [static]
```

Open Jpannel for Yes and no option selection.

4.13.3 Member Data Documentation

4.13.3.1 contentPane

```
JPanel OpeningMenu.contentPane  [static], [private]
```

4.13.3.2 FILENAME

```
final String OpeningMenu.FILENAME = "WareData"  [static], [package]
```

4.13.3.3 warehouse

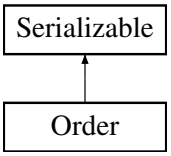
```
Warehouse OpeningMenu.warehouse  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OpeningMenu.java

4.14 Order Class Reference

Inheritance diagram for Order:



Public Member Functions

- Order (Client c)

  Creates an order.
- void addItem (Product p, int quantity)

  Add product to list of items being Ordered.
- Client getClient ()
- int getId ()

  Returns Id of the order object.
- Iterator getItemList ()

  Get list of items Ordered.
- int getItemQuantity (Product p)

  Get Quantity of an Ordered product.
- void modifyItemQuantity (Product p, int quantity)

  Modify Quantity of item being ordered.
- void processOrder ()

  Process and place Order.
- void removeItem (Product p)

  Remove product from itemOrdered list.
- String toString ()

  convert data of list of items being ordered to string

Private Member Functions

- void fillOrder ()

  Add all items from client's wishlist to order.

Private Attributes

- Client clientAccount
- ItemList itemsOrdered
- int orderNumber

Static Private Attributes

- static final long serialVersionUID = 1L

4.14.1 Constructor & Destructor Documentation

4.14.1.1 Order()

```
Order.Order (
            Client c )
```

Creates an order.

4.14.2 Member Function Documentation

4.14.2.1 addItem()

```
void Order.addItem (
            Product p,
            int quantity )
```

Add product to list of items being Ordered.

4.14.2.2 fillOrder()

```
void Order.fillOrder ( )  [private]
```

Add all items from client's wishlist to order.

4.14.2.3 getClient()

```
Client Order.getClient ( )
```

4.14.2.4 getId()

```
int Order.getId ( )
```

Returns Id of the order object.

4.14.2.5 getItemList()

```
Iterator Order.getItemList ( )
```

Get list of items Ordered.

4.14.2.6 getItemQuantity()

```
int Order.getItemQuantity (
            Product p )
```

Get Quantity of an Ordered product.

4.14.2.7 modifyItemQuantity()

```
void Order.modifyItemQuantity (
            Product p,
            int quantity )
```

Modify Quantity of item being ordered.

4.14.2.8 processOrder()

```
void Order.processOrder ( )
```

Process and place Order.

Goes through every item in the Order. Items that are in stock will be added to the Invoice. Items that are not in stock will be added to the Waitlist. The invoice is calculated and assigned to a Client./** Clients wishlist is cleared.

4.14.2.9 removeItem()

```
void Order.removeItem (
            Product p )
```

Remove product from itemOrdered list.

4.14.2.10 toString()

```
String Order.toString ( )
```

convert data of list of items being ordered to string

4.14.3 Member Data Documentation

4.14.3.1 clientAccount

```
Client Order.clientAccount  [private]
```

4.14.3.2 itemsOrdered

```
ItemList Order.itemsOrdered  [private]
```

4.14.3.3 orderNumber

```
int Order.orderNumber  [private]
```

4.14.3.4 serialVersionUID

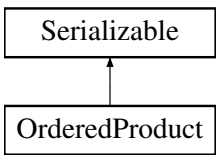
```
final long Order.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Order.java

4.15 OrderedProduct Class Reference

Inheritance diagram for OrderedProduct:



Public Member Functions

- OrderedProduct (Product item, int quantity)

  Initialize Ordered Product.
- void changeQuantity (int quantity)

  change the quantity of product object thet was odered
- Product getProduct ()

  retens product object thet was odered
- int getQuantity ()
- String toString ()

  convert data of odered product to string

Private Attributes

- Product productOrdered
- int quantity

Static Private Attributes

- static final long serialVersionUID = 1L

4.15.1 Constructor & Destructor Documentation

4.15.1.1 OrderedProduct()

```
OrderedProduct.OrderedProduct (
            Product item,
            int quantity )
```

Initialize Ordered Product.

4.15.2 Member Function Documentation

4.15.2.1 changeQuantity()

```
void OrderedProduct.changeQuantity (
            int quantity )
```

change the quantity of product object thet was odered

4.15.2.2 getProduct()

```
Product OrderedProduct.getProduct ( )
```

retens product object thet was odered

4.15.2.3 getQuantity()

```
int OrderedProduct.getQuantity ( )
```

4.15.2.4 toString()

```
String OrderedProduct.toString ( )
```

convert data of odered product to string

4.15.3 Member Data Documentation

4.15.3.1 productOrdered

```
Product OrderedProduct.productOrdered  [private]
```

4.15.3.2 quantity

```
int OrderedProduct.quantity  [private]
```

4.15.3.3 serialVersionUID

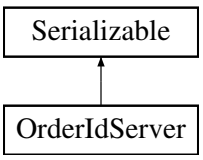
```
final long OrderedProduct.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OrderedProduct.java

4.16 OrderIdServer Class Reference

Inheritance diagram for OrderIdServer:



Public Member Functions

- int getId ()

  returns product id
- String toString ()

Static Public Member Functions

- static OrderIdServer instance ()
  instance for OrdorIdServer
- static void retrieve (ObjectInputStream in)
  < read data from instream

Private Member Functions

- OrderIdServer ()
  initialize OrdorIdServer object
- void readObject (java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
  < read object from inputstream
- void writeObject (java.io.ObjectOutputStream out) throws IOException
  < write object to outputstream

Private Attributes

- int idCounter
  counter for orderid

Static Private Attributes

- static OrderIdServer server
  orderedid server object

4.16.1 Constructor & Destructor Documentation

4.16.1.1 OrderIdServer()

```
OrderIdServer.OrderIdServer ( )  [private]
```

initialize OrdorIdServer object

4.16.2 Member Function Documentation

4.16.2.1 getId()

```
int OrderIdServer.getId ( )
```

returns product id

convert daats to string

4.16.2.2 instance()

```
static OrderIdServer OrderIdServer.instance ( )  [static]
```

instance for OrdorIdServer

4.16.2.3 readObject()

```
void OrderIdServer.readObject (
            java.io.ObjectInputStream in ) throws IOException, ClassNotFoundException  [private]
```

< read object from inputstream

4.16.2.4 retrieve()

```
static void OrderIdServer.retrieve (
            ObjectInputStream in )  [static]
```

< read data from instream

4.16.2.5 toString()

```
String OrderIdServer.toString ( )
```

4.16.2.6 writeObject()

```
void OrderIdServer.writeObject (
            java.io.ObjectOutputStream out ) throws IOException  [private]
```

< write object to outputstream

4.16.3 Member Data Documentation

4.16.3.1 idCounter

```
int OrderIdServer.idCounter  [private]
```

counter for orderid

4.16.3.2 server

```
OrderIdServer OrderIdServer.server  [static], [private]
```

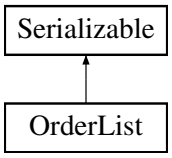
orderedid server object

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OrderIdServer.java

4.17 OrderList Class Reference

Inheritance diagram for OrderList:



Public Member Functions

- OrderList ()
  initialize list of order in orderlist object
- void addOrder (Order o)
  Adds Order to OrderList.
- Order findOrder (int id)
  Finds Order in Order List by the Order id.
- Iterator getIterator ()
  Iterates through all Order objects
- void removeOrder (Order o)
  Removes order from Order List
- String toString ()
  convert odor data to string

Static Public Member Functions

- static OrderList instance ()
  iunitialize orderlist object

Private Member Functions

- void readObject (java.io.ObjectInputStream input)
  read object fron inputstream
- void writeObject (java.io.ObjectOutputStream output)
  write object to outputstream

Private Attributes

- ArrayList< Order > orders

  Holds array list of odor object.

Static Private Attributes

- static OrderList orderList

  holds Orderlist object
- static final long serialVersionUID = 1L

4.17.1 Constructor & Destructor Documentation

4.17.1.1 OrderList()

```
OrderList.OrderList ( )
```

initialize list of order in orderlist object

4.17.2 Member Function Documentation

4.17.2.1 addOrder()

```
void OrderList.addOrder (
            Order o )
```

Adds Order to OrderList.

4.17.2.2 findOrder()

```
Order OrderList.findOrder (
            int id )
```

Finds Order in Order List by the Order id.

Returns Null if id not found

4.17.2.3 getIterator()

```
Iterator OrderList.getIterator ( )
```

Iterates through all Order objects

4.17.2.4 instance()

```
static OrderList OrderList.instance ( )  [static]
```

iunitialize orderlist object

4.17.2.5 readObject()

```
void OrderList.readObject (
            java.io.ObjectInputStream input )  [private]
```

read object fron inputstream

4.17.2.6 removeOrder()

```
void OrderList.removeOrder (
            Order o )
```

Removes order from Order List

4.17.2.7 toString()

```
String OrderList.toString ( )
```

convert odor data to string

4.17.2.8 writeObject()

```
void OrderList.writeObject (
            java.io.ObjectOutputStream output )  [private]
```

write object to outputstream

4.17.3 Member Data Documentation

4.17.3.1 orderList

```
OrderList OrderList.orderList  [static], [private]
```

holds Orderlist object

4.17.3.2 orders

```
ArrayList<Order> OrderList.orders  [private]
```

Holds array list of odor object.

4.17.3.3 serialVersionUID

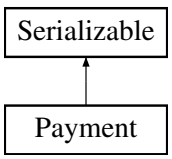
```
final long OrderList.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/OrderList.java

4.18 Payment Class Reference

Inheritance diagram for Payment:



Public Member Functions

- Payment (double p, Client c, String d)
  initialize payment object
- LocalDateTime getDate ()
- double getPayment ()
  returns payment object
- String toString ()
  convert data in payment object to string

Private Member Functions

- void sendToAccount ()

  Sends payment to Clients account updating balance

Private Attributes

- Client clientAccount

  holds clint that made the payment
- double clientPayment

  hold amount paid by client
- LocalDateTime date

  time the payment was made
- String description

  string that describes the detail of the patment made

Static Private Attributes

- static final DateTimeFormatter dateFormat = DateTimeFormatter.ofPattern("yyyy MM dd")
- static final long serialVersionUID = 1L

4.18.1 Constructor & Destructor Documentation

4.18.1.1 Payment()

```
Payment.Payment (
            double p,
            Client c,
            String d )
```

initialize payment object

4.18.2 Member Function Documentation

4.18.2.1 getDate()

```
LocalDateTime Payment.getDate ( )
```

4.18.2.2 getPayment()

```
double Payment.getPayment ( )
```

returns payment object

4.18.2.3 sendToAccount()

```
void Payment.sendToAccount ( )  [private]
```

Sends payment to Clients account updating balance

4.18.2.4 toString()

```
String Payment.toString ( )
```

convert data in payment object to string

4.18.3 Member Data Documentation

4.18.3.1 clientAccount

```
Client Payment.clientAccount  [private]
```

holds clint that made the payment

4.18.3.2 clientPayment

```
double Payment.clientPayment  [private]
```

hold amount paid by client

4.18.3.3 date

```
LocalDateTime Payment.date  [private]
```

time the payment was made

4.18.3.4 dateFormat

```
final DateTimeFormatter Payment.dateFormat = DateTimeFormatter.ofPattern("yyyy MM dd")  [static],
[private]
```

4.18.3.5 description

```
String Payment.description  [private]
```

string that describes the detail of the patment made

4.18.3.6 serialVersionUID

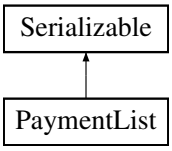
```
final long Payment.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Payment.java

4.19 PaymentList Class Reference

Inheritance diagram for PaymentList:



Public Member Functions

- PaymentList ()
  initialize paymentlist object thet holds list of payment
- void addPayment (Payment t)
  Adds payment to payment list
- Iterator< Payment > getIterator ()
  returns paymentlist as iterator
- ArrayList< Payment > getPayments ()
  returns paymentlist as arraylist
- void removePayment (Payment t)
  Remove payment from payment list.
- String toString ()
  coinvert paymentlist data to string

Private Attributes

- ArrayList< Payment > payments

  Arraylist of patment object.

Static Private Attributes

- static final long serialVersionUID = 1L

4.19.1 Constructor & Destructor Documentation

4.19.1.1 PaymentList()

```
PaymentList.PaymentList ( )
```

initialize paymentlist object thet holds list of payment

4.19.2 Member Function Documentation

4.19.2.1 addPayment()

```
void PaymentList.addPayment (
            Payment t )
```

Adds payment to payment list

4.19.2.2 getIterator()

```
Iterator< Payment > PaymentList.getIterator ( )
```

returns paymentlist as iterator

4.19.2.3 getPayments()

```
ArrayList< Payment > PaymentList.getPayments ( )
```

returns paymentlist as arraylist

4.19.2.4 removePayment()

```
void PaymentList.removePayment (
            Payment t )
```

Remove payment from payment list.

4.19.2.5 toString()

```
String PaymentList.toString ( )
```

coinvert paymentlist data to string

4.19.3 Member Data Documentation

4.19.3.1 payments

```
ArrayList<Payment> PaymentList.payments  [private]
```

Arraylist of patment object.

4.19.3.2 serialVersionUID

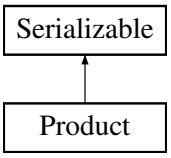
```
final long PaymentList.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/PaymentList.java

4.20 Product Class Reference

Inheritance diagram for Product:



Public Member Functions

- Product ()

  initialize product object
- void addStock (int quantity)

  Add Item to Stock from Shipment
- void finishWaitListProduct (WaitListProduct item)

  Process item from waitlist then remove it when shipment is made and order is filed.
- String getData ()

  return data of product in string
- String getName ()

  returns product name
- double getPrice ()

  returns product Price
- int getProductNumber ()

  returns product id
- int getStock ()

  returns quantity of product in stock
- Iterator getWaitList ()

  returns iterator for waitlisted products
- void ProcessShipment (int Quantity)

  fill in waitlisted order and update inventory after warehouse recieves shipment
- void removeStock (int r)

  Remove specified amount of stock.
- void setData (String n, double p, int st)

  initialize all data fields of a product
- void setName (String input)

  set product Name
- void setPrice (double input)

  set product price
- String toString ()

  return product data in string
- void waitListProduct (Order o, int quantity)

  add product to the waillist along with quantity

Private Attributes

- int id

  holds id of Product
- int inStock

  holds quantit of Product in stock
- String name

  holds name of Product
- double Price

  holds price of Produst
- List< WaitListProduct > waitList = new ArrayList<WaitListProduct>()

  holds list of Product that were waitlisted

Static Private Attributes

- static final long serialVersionUID = 1L

4.20.1 Constructor & Destructor Documentation

4.20.1.1 Product()

```
Product.Product ( )
```

initialize product object

4.20.2 Member Function Documentation

4.20.2.1 addStock()

```
void Product.addStock (
            int quantity )
```

Add Item to Stock from Shipment

4.20.2.2 finishWaitListProduct()

```
void Product.finishWaitListProduct (
            WaitListProduct item )
```

Process item from waitlist then remove it when shipment is made and order is filed.

4.20.2.3 getData()

```
String Product.getData ( )
```

return data of product in string

4.20.2.4 getName()

```
String Product.getName ( )
```

returns product name

4.20.2.5 getPrice()

```
double Product.getPrice ( )
```

returns product Price

4.20.2.6 getProductNumber()

```
int Product.getProductNumber ( )
```

returns product id

4.20.2.7 getStock()

```
int Product.getStock ( )
```

returns quantity of product in stock

4.20.2.8 getWaitList()

```
Iterator Product.getWaitList ( )
```

returns iterator for waitlisted products

4.20.2.9 ProcessShipment()

```
void Product.ProcessShipment (
            int Quantity )
```

fill in waitlisted order and update inventory after warehouse recieves shipment

4.20.2.10 removeStock()

```
void Product.removeStock (
            int r )
```

Remove specified amount of stock.

4.20.2.11 setData()

```
void Product.setData (
            String n,
            double p,
            int st )
```

initialize all data fields of a product

4.20.2.12 setName()

```
void Product.setName (
            String input )
```

set product Name

4.20.2.13 setPrice()

```
void Product.setPrice (
            double input )
```

set product price

4.20.2.14 toString()

```
String Product.toString ( )
```

return product data in string

4.20.2.15 waitListProduct()

```
void Product.waitListProduct (
            Order o,
            int quantity )
```

add product to the waillist along with quantity

4.20.3 Member Data Documentation

4.20.3.1 id

```
int Product.id  [private]
```

holds id of Product

4.20.3.2 inStock

```
int Product.inStock  [private]
```

holds quantit of Product in stock

4.20.3.3 name

```
String Product.name  [private]
```

holds name of Product

4.20.3.4 Price

```
double Product.Price  [private]
```

holds price of Produst

4.20.3.5 serialVersionUID

```
final long Product.serialVersionUID = 1L  [static], [private]
```

4.20.3.6 waitList

```
List<WaitListProduct> Product.waitList = new ArrayList<WaitListProduct>()  [private]
```

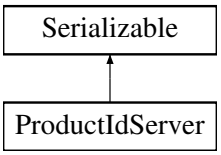
holds list of Product that were waitlisted

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Product.java

4.21 ProductIdServer Class Reference

Inheritance diagram for ProductIdServer:



Public Member Functions

- int getId ()
  returns product id
- String toString ()
  < convert daats to string

Static Public Member Functions

- static ProductIdServer instance ()
  instance for ProductIdServer
- static void retrieve (ObjectInputStream in)
  < read data from instream

Private Member Functions

- ProductIdServer ()
  initialize ProductIdServer object
- void readObject (java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
  < read object from inputstream
- void writeObject (java.io.ObjectOutputStream out) throws IOException
  < write object to outputstream

Private Attributes

- int idCounter
  counter for product

Static Private Attributes

- static ProductIdServer server

  ProductIdServer object.

4.21.1 Constructor & Destructor Documentation

4.21.1.1 ProductIdServer()

```
ProductIdServer.ProductIdServer ( )  [private]
```

initialize ProductIdServer object

4.21.2 Member Function Documentation

4.21.2.1 getId()

```
int ProductIdServer.getId ( )
```

returns product id

4.21.2.2 instance()

```
static ProductIdServer ProductIdServer.instance ( )  [static]
```

instance for ProductIdServer

4.21.2.3 readObject()

```
void ProductIdServer.readObject (
            java.io.ObjectInputStream in ) throws IOException, ClassNotFoundException  [private]
```

< read object from inputstream

4.21.2.4 retrieve()

```
static void ProductIdServer.retrieve (
            ObjectInputStream in )  [static]
```

< read data from instream

4.21.2.5 toString()

```
String ProductIdServer.toString ( )
```

< convert daats to string

4.21.2.6 writeObject()

```
void ProductIdServer.writeObject (
            java.io.ObjectOutputStream out ) throws IOException  [private]
```

< write object to outputstream

4.21.3 Member Data Documentation

4.21.3.1 idCounter

```
int ProductIdServer.idCounter  [private]
```

counter for product

4.21.3.2 server

```
ProductIdServer ProductIdServer.server  [static], [private]
```

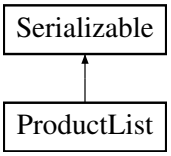
ProductIdServer object.

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ProductIdServer.java

4.22 ProductList Class Reference

Inheritance diagram for ProductList:



Public Member Functions

- ProductList ()
  defult constructor
- void addProduct (String d, double p, int st)
  Add product to product List
- void displayList ()
  Display Product List
- Product findProduct (int id)
  Find product in product List by product id
- Product findProduct (String name)
  Find product in product List by product name
- Iterator getProduct ()
  returns iterator cintaining list pf product
- List< Product > getProductsList ()
  returns arraylist of product
- void removeProduct (int PID)
  Remove product from Product List
- List< Product > search (double parameter)
  Search by PRICE
- List< Product > search (long parameter)
  Searches by product ID
- List< Product > search (String parameter)
  Searches by product DESCRIPTION
- int size ()
  returns size of product List
- String toString ()
  convert prodectlist data to string

Static Public Member Functions

- static ProductList instance ()
  initialize ProductList object

Static Private Member Functions

- static void readObject (java.io.ObjectInputStream input)

  read object from infile stream
- static void writeObject (java.io.ObjectOutputStream output)

  Write object to output stream.

Private Attributes

- List< Product > products = new LinkedList<Product>()

  array list of product

Static Private Attributes

- static ProductList pList

  object containing list of product as productList class object
- static final long serialVersionUID = 1L

4.22.1 Constructor & Destructor Documentation

4.22.1.1 ProductList()

```
ProductList.ProductList ( )
```

defult constructor

4.22.2 Member Function Documentation

4.22.2.1 addProduct()

```
void ProductList.addProduct (
            String d,
            double p,
            int st )
```

Add product to product List

4.22.2.2 displayList()

```
void ProductList.displayList ( )
```

Display Product List

4.22.2.3 findProduct() [1/2]

```
Product ProductList.findProduct (
            int id )
```

Find product in product List by product id

returns Null if id not found in list

4.22.2.4 findProduct() [2/2]

```
Product ProductList.findProduct (
            String name )
```

Find product in product List by product name

returns Null if id not found in list

4.22.2.5 getProduct()

```
Iterator ProductList.getProduct ( )
```

returns iterator cintaining list pf product

4.22.2.6 getProductsList()

```
List< Product > ProductList.getProductsList ( )
```

returns arraylist of product

4.22.2.7 instance()

```
static ProductList ProductList.instance ( )  [static]
```

initialize ProductList object

4.22.2.8 readObject()

```
static void ProductList.readObject (
            java.io.ObjectInputStream input )  [static], [private]
```

read object from infile stream

4.22.2.9 removeProduct()

```
void ProductList.removeProduct (
            int PID )
```

Remove product from Product List

4.22.2.10 search() [1/3]

```
List< Product > ProductList.search (
            double parameter )
```

Search by PRICE

4.22.2.11 search() [2/3]

```
List< Product > ProductList.search (
            long parameter )
```

Searches by product ID

4.22.2.12 search() [3/3]

```
List< Product > ProductList.search (
            String parameter )
```

Searches by product DESCRIPTION

4.22.2.13 size()

```
int ProductList.size ( )
```

returns size of product List

4.22.2.14 toString()

```
String ProductList.toString ( )
```

convert prodectlist data to string

4.22.2.15 writeObject()

```
static void ProductList.writeObject (
            java.io.ObjectOutputStream output )  [static], [private]
```

Write object to output stream.

4.22.3 Member Data Documentation

4.22.3.1 pList

```
ProductList ProductList.pList  [static], [private]
```

object containing list of product as productList class object

4.22.3.2 products

```
List<Product> ProductList.products = new LinkedList<Product>()  [private]
```

array list of product

4.22.3.3 serialVersionUID

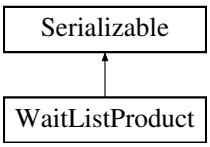
```
final long ProductList.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/ProductList.java

4.23 WaitListProduct Class Reference

Inheritance diagram for WaitListProduct:



Public Member Functions

- WaitListProduct (Order o, int q, Product p)
  initialize waitlist product
- Order getOrder ()
  get order of waitlistproduct
- Product getProduct ()
  get product object of waitlistproduct
- int getQuantity ()
  get quabntity of waitlistproduct
- WaitListProduct getWaitListProduct ()
  get waitlistproduct object
- void process ()
  Process waitLists Item adfter odor os placed.
- void setQuantity (int quantity)
  set quantity of waitlistproduct
- String toString ()
  convert waitlistproduct to string

Private Attributes

- Order order

  order of waitlistproduct
- Product product

  product object of waitlistproduct
- int quantity

  quantity of waitlistproduct

Static Private Attributes

- static final long serialVersionUID = 1L

4.23.1 Constructor & Destructor Documentation

4.23.1.1 WaitListProduct()

```
WaitListProduct.WaitListProduct (
            Order o,
            int q,
            Product p )
```

initialize waitlist product

4.23.2 Member Function Documentation

4.23.2.1 getOrder()

```
Order WaitListProduct.getOrder ( )
```

get order of waitlistproduct

4.23.2.2 getProduct()

```
Product WaitListProduct.getProduct ( )
```

get product object of waitlistproduct

4.23.2.3 getQuantity()

```
int WaitListProduct.getQuantity ( )
```

get quabntity of waitlistproduct

4.23.2.4 getWaitListProduct()

```
WaitListProduct WaitListProduct.getWaitListProduct ( )
```

get waitlistproduct object

4.23.2.5 process()

```
void WaitListProduct.process ( )
```

Process waitLists Item adfter odor os placed.

4.23.2.6 setQuantity()

```
void WaitListProduct.setQuantity (
            int quantity )
```

set quantity of waitlistproduct

4.23.2.7 toString()

```
String WaitListProduct.toString ( )
```

convert waitlistproduct to string

4.23.3 Member Data Documentation

4.23.3.1 order

```
Order WaitListProduct.order  [private]
```

order of waitlistproduct

4.23.3.2 product

```
Product WaitListProduct.product  [private]
```

product object of waitlistproduct

4.23.3.3 quantity

```
int WaitListProduct.quantity  [private]
```

quantity of waitlistproduct

4.23.3.4 serialVersionUID

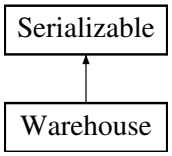
```
final long WaitListProduct.serialVersionUID = 1L  [static], [private]
```

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/WaitListProduct.java

4.24 Warehouse Class Reference

Inheritance diagram for Warehouse:



Public Member Functions

- Warehouse ()
  ------Constructor----------
- Client addClient (String name, String addr)
  Construct new Client Object and adds it.
- void addProduct (String n, double p, int st)
  Construct New product Object and add.
- Iterator addShippedItem (int productId, int quantity)
  added the quantity of priducts after a shipment is received
- void addToCart (int cId, int pId, int quantity)
  Using Client Id, Product Id, and a specified
- void clearCart (int id)

Clears client cart using specified

- Client findClient (int id)

  Finds client by ID.
- Product findProduct (int id)

  Finds product by ID.
- Product findProduct (String name)

  Finds product by Name.
- void finishWaitList (int productId, WaitListProduct item)

  Find a product in waitlist from product id.
- Iterator getCart (int cId)

  Iterator that return clients shoping cart using
- double getClientBalance (int id)

  Uses Client ID to get client Balance
- Iterator getClients ()

  Returns Iterator to List of clients in
- ArrayList< Client > getClientsArraylist ()

  Returns Arraylist of clients in.
- Iterator getInvoice (int id)

  Iterator for list of invoices.
- Iterator getPayment (int id)

  Iterator for list of payments for
- Iterator getProducts ()

  Returns Iterator to List of products in.
- List< Product > getProductsList ()

  returns ArrayList of products in
- int getStock (int productId)

  Uses product ID to get amount in stock
- Iterator getWaitList (int productId)

  Iterator for waitlist using product id
- void makePayment (int clientId, double amount, String description)

  Using client's id.
- void modifyCart (int cId, int pId, int q)

  Using clientId, productId, and quantity as parameter
- void placeOrder (int clientId)

  Uses clientId to add order to order list and
- void ProcessShipment (Product P, int Quantity)
- void productlist ()

  Displays List of products in warehouse
- void RemoveFromCart (int cId, int pId)

  Using Client Id, Product Id
- void removeProducts (int PID)

- String toString ()

  returns clientlist orderlist and productlist as string
- boolean verifyClient (int id)

  returns True if client is in clientList
- boolean verifyProduct (int id)

  Returns True if product is in productList.

Static Public Member Functions

- static Warehouse instance ()

  initialize warehouse odject
- static Warehouse retrieveData (String filename)

  Loads data from a shaved file.
- static boolean saveData (String filename)

  Save the data of the warehouse system.

Private Member Functions

- void readObject (java.io.ObjectInputStream input)

  read warehouse data from inputfile stream
- void writeObject (java.io.ObjectOutputStream output)

  write data of warehouse object to outputstream

Private Attributes

- ClientList clients

  holds the list of client object
- OrderList orders

  holds the list of products
- ProductList products

  holds the list of product
- List< Product > waitListProducts = new LinkedList<>()

  Holds the list of product that are weitlisted.
- List< WaitListProduct > waitListRemoval = new LinkedList<>()

  Holds the list of produsts thet needs to be removed from waitlist.

Static Private Attributes

- static Warehouse warehouse

  holds the entire data of warehouse system

4.24.1 Constructor & Destructor Documentation

4.24.1.1 Warehouse()

```
Warehouse.Warehouse ( )
```

------—Constructor----------—

initilizes required data fields in warehouse class

4.24.2 Member Function Documentation

4.24.2.1 addClient()

```
Client Warehouse.addClient (
            String name,
            String addr )
```

Construct new Client Object and adds it.

to client list

4.24.2.2 addProduct()

```
void Warehouse.addProduct (
            String n,
            double p,
            int st )
```

Construct New product Object and add.

it to product List

4.24.2.3 addShippedItem()

```
Iterator Warehouse.addShippedItem (
            int productId,
            int quantity )
```

added the quantity of priducts after a shipment is received

4.24.2.4 addToCart()

```
void Warehouse.addToCart (
            int cId,
            int pId,
            int quantity )
```

Using Client Id, Product Id, and a specified

quantity it adds the specified product to the clients cart.

4.24.2.5 clearCart()

```
void Warehouse.clearCart (
            int id )
```

Clears client cart using specified

client Id.

4.24.2.6 findClient()

```
Client Warehouse.findClient (
            int id )
```

Finds client by ID.

Returns null if not found

4.24.2.7 findProduct() [1/2]

```
Product Warehouse.findProduct (
            int id )
```

Finds product by ID.

Returns null if not found

4.24.2.8 findProduct() [2/2]

```
Product Warehouse.findProduct (
            String name )
```

Finds product by Name.

Returns null if not found

4.24.2.9 finishWaitList()

```
void Warehouse.finishWaitList (
            int productId,
            WaitListProduct item )
```

Find a product in waitlist from product id.

4.24.2.10 getCart()

```
Iterator Warehouse.getCart (
            int cId )
```

Iterator that return clients shoping cart using

specified client Id as parameter

4.24.2.11 getClientBalance()

```
double Warehouse.getClientBalance (
            int id )
```

Uses Client ID to get client Balance

4.24.2.12 getClients()

```
Iterator Warehouse.getClients ( )
```

Returns Iterator to List of clients in

Warehouse System

4.24.2.13 getClientsArraylist()

```
ArrayList< Client > Warehouse.getClientsArraylist ( )
```

Returns Arraylist of clients in.

Warehouse System

4.24.2.14 getInvoice()

```
Iterator Warehouse.getInvoice (
            int id )
```

Iterator for list of invoices.

for specified clientid passed as parameter

4.24.2.15 getPayment()

```
Iterator Warehouse.getPayment (
            int id )
```

Iterator for list of payments for

specified client pased as a parameter

4.24.2.16 getProducts()

```
Iterator Warehouse.getProducts ( )
```

Returns Iterator to List of products in.

warehouse System

4.24.2.17 getProductsList()

```
List< Product > Warehouse.getProductsList ( )
```

returns ArrayList of products in

warehouse System

4.24.2.18 getStock()

```
int Warehouse.getStock (
            int productId )
```

Uses product ID to get amount in stock

4.24.2.19 getWaitList()

```
Iterator Warehouse.getWaitList (
            int productId )
```

Iterator for waitlist using product id

4.24.2.20 instance()

```
static Warehouse Warehouse.instance ( )  [static]
```

initialize warehouse odject

4.24.2.21 makePayment()

```
void Warehouse.makePayment (
            int clientId,
            double amount,
            String description )
```

Using client's id.

it creates a payment object
object for specified clientid a parameter

4.24.2.22 modifyCart()

```
void Warehouse.modifyCart (
            int cId,
            int pId,
            int q )
```

Using clientId, productId, and quantity as parameter

it updates the quantity of product in clients cart
if quantity pased as a parameter is 0, it will be removed the product from clients cart

4.24.2.23 placeOrder()

```
void Warehouse.placeOrder (
            int clientId )
```

Uses clientId to add order to order list and

clears clients wishlist

4.24.2.24 ProcessShipment()

```
void Warehouse.ProcessShipment (
            Product P,
            int Quantity )
```

4.24.2.25 productlist()

```
void Warehouse.productlist ( )
```

Displays List of products in warehouse

4.24.2.26 readObject()

```
void Warehouse.readObject (
            java.io.ObjectInputStream input )  [private]
```

read warehouse data from inputfile stream

4.24.2.27 RemoveFromCart()

```
void Warehouse.RemoveFromCart (
            int cId,
            int pId )
```

Using Client Id, Product Id

it removes the specified product to
the clients cart.

4.24.2.28 removeProducts()

```
void Warehouse.removeProducts (
            int PID )
```

4.24.2.29 retrieveData()

```
static Warehouse Warehouse.retrieveData (
            String filename )  [static]
```

Loads data from a shaved file.

4.24.2.30 saveData()

```
static boolean Warehouse.saveData (
            String filename )  [static]
```

Save the data of the warehouse system.

4.24.2.31 toString()

```
String Warehouse.toString ( )
```

returns clientlist orderlist and productlist as string

4.24.2.32 verifyClient()

```
boolean Warehouse.verifyClient (
            int id )
```

returns True if client is in clientList

False if not found

4.24.2.33 verifyProduct()

```
boolean Warehouse.verifyProduct (
            int id )
```

Returns True if product is in productList.

False if not found

4.24.2.34 writeObject()

```
void Warehouse.writeObject (
            java.io.ObjectOutputStream output )  [private]
```

write data of warehouse object to outputstream

4.24.3 Member Data Documentation

4.24.3.1 clients

`ClientList Warehouse.clients [private]`

holds the list of client object

4.24.3.2 orders

`OrderList Warehouse.orders [private]`

holds the list of products

4.24.3.3 products

`ProductList Warehouse.products [private]`

holds the list of product

4.24.3.4 waitListProducts

`List<Product> Warehouse.waitListProducts = new LinkedList<>() [private]`

Holds the list of product that are weitlisted.

4.24.3.5 waitListRemoval

`List<WaitListProduct> Warehouse.waitListRemoval = new LinkedList<>() [private]`

Holds the list of produsts thet needs to be removed from waitlist.

4.24.3.6 warehouse

`Warehouse Warehouse.warehouse [static], [private]`

holds the entire data of warehouse system

The documentation for this class was generated from the following file:

- C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/Warehouse.java

Chapter 5

File Documentation

5.1 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ClarkMenu.java File Reference

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- class ClarkMenu

5.2 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ Client.java File Reference

Classes

- class Client

5.3 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ClientIdServer.java File Reference

Classes

- class ClientIdServer

5.4 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ClientList.java File Reference

Classes

- class ClientList

5.5 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ClientMenu.java File Reference

Classes

- class ClientMenu

5.6 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ClientQueryMenu.java File Reference

Classes

- class ClientQueryMenu

5.7 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ClientShoppingMenu.java File Reference

Classes

- class ClientShoppingMenu

5.8 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ Invoice.java File Reference

Classes

- class Invoice

5.9 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ InvoiceList.java File Reference

Classes

- class InvoiceList

5.10 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ItemList.java File Reference

Classes

- class ItemList

5.11 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ LoadFileMenu.java File Reference

Classes

- class LoadFileMenu

5.12 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ ManagerMenu.java File Reference

Classes

- class ManagerMenu

5.13 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ OpeningMenu.java File Reference

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- class OpeningMenu

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- class Order

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- class OrderedProduct

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- class OrderIdServer

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- class OrderList

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- class Payment

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- class PaymentList

5.20 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ Product.java File Reference

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- class Product

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- class ProductIdServer

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- class ProductList

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- class WaitListProduct

5.24 C:/Users/shres/OneDrive/Desktop/430/WarehouseFSM-master/↩ Warehouse.java File Reference

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- class Warehouse

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