CRC CARDS

User

Retrieve user ID

Set user ID

Retrieve username

Set username

Retrieve password

Set password

Get date of birth

Set date of birth

Item

Retrieve item ID

Set item ID

Retrieve title

Set title

Retrieve price

Set price

Retrieve release date

Set release date

Retrieve developer

Set developer

Retrieve number of copies

Set number of copies

Retrieve image path

Set image path

RentedItem

Retrieve rental deadline

BasicOrder Superclass: Order

Set cart Cart

Set user User
Calculate total price Order <<interface>>

Retrieve order summary Retrieve cart Retrieve user

Cart

Retrieve total price Item
Add an item Iterable

Retrieve units Empty the cart Retrieve items Iterable <<interface>>
Iterator <<interface>>

OrderDecorator Subclasses: OrderAsGift

> Order Discount Order Donataion Order Fast Delivery

Calculate total price Retrieve order summary Retrieve cart

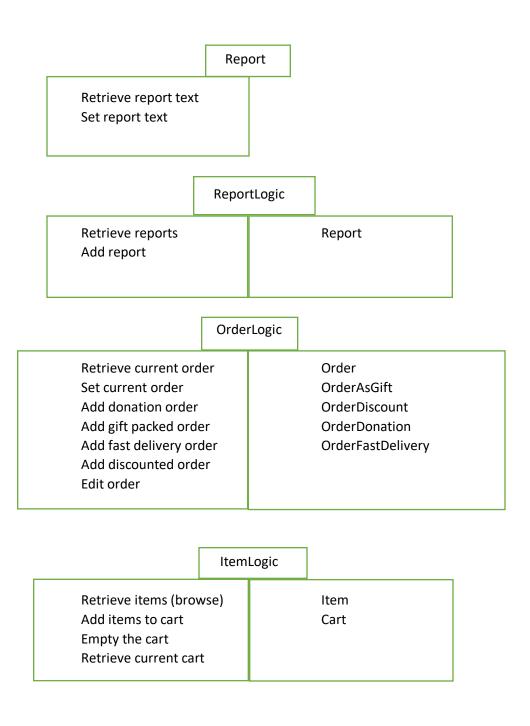
Retrieve user

Log out

Order <<interface>>

UserLogic

Log in DAOFactory
Retrieve current user User



MyServiceApplication

Adds user

Removes user

Adds item

Removes item

Creates a new user

Log in

Log out

Retrieve items (browse)

Add items to cart

Empty the cart

Remove from cart

Submit an order

Create an order

Checks payment

Retrieve current cart

Retrieve current order

Edit and order

UserLogic

ItemLogic

OrderLogic

ServiceApplicationInterface

<<interface>>

DAOFactory

Subclasses: DerbyDAOFactory

Retrieve UserDAO

Retrieve ItemDAO

Retrieve DAOFactory

DerbyDAOFactory

Connect to the database

Retrieve UserDAO

Retrieve ItemDAO

DerbyUserDAO

 ${\sf DerbyItemDAO}$

DerbyItemDAO

Retrieve all items from db
Retrieve an item by it's ID from db
Retrieve an item by it's title from db
Insert an item in the db
Update an item in the db
Delete an item from the db
Retrieve an item using a search query

ItemDAO <<interface>>

DerbyUserDAO

Retrieve user by credentials from db
Retrieve user by ID from db
Insert user in the db
Update an user in the db
Delete an user from the db

UserDAO <<interface>>

MainView

Interprets user's actions in the GUI

LoginFrame ShopFrame OrderFrame StockFrame UserStockFrame ReportFrame CustomerHomepage

Superclass: MainView

Interprets user's interaction with

the GUI:

Login

Browse

Add to cart

Empty cart

Logout

Check out

Refresh

LoginFrame

ShopFrame OrderFrame

AdminHomepage

Superclass: MainView

Interprets admin's interaction

with the GUI:

Login

Log out

Download reports

Access Stocks

Access Orders

LoginFrame

OrderFrame

StockFrame

LoginFrame

Retrieve the username input Retrieve the password input

Display login error

ShopFrame

Retrieve search text input Retrieve selected items

Sets GUI label text to a total price

BrowseTable Controller

StockFrame Add a new item Controller View pending orders View currently rented items Update the rented items view Mark item as returned OrderFrame Order Sets GUI label to a value Retrieve discount input CartTable Retrieve donation input Retrieve fast delivery input Retrieve gift input Sets text area to a order summary UserStockFrame Display the review form Controller Add a review ReportFrame Retrieve sales report Controller BrowseTable GUI component displaying items Items Retrieve selected items ShopObserver <<interface>>

CartTable GUI component displaying Cart items inside the cart ShopObserver <<interface>> Retrieve total price Controller Observable <<interface>> Log in Browse Items ${\sf Service Application Interface}$ <<interface>> Add items to cart Empty the cart Retrieve the cart Create an order Retrieve an order Edit an order Notifies observers