User	
ID Name Background Login Password	Background

	User
Shopper	
cart list of invoices add product to cart see list of invoices generate invoice generate a list of product , given category & price range	Product Invoice ShopperManager

	User
Administrator	
add categories generate report change product info see a list of product	Category Product AdministratorManager

Product	
ID image description category price available quantity	Category Shopper Administrator Background ProductManager

Background	
list of category list of product	User Category Product BackgroundManager

Category	
code description	Product Background Administrator CategoryManager

Invoice	
Order Sequence client name list of product	Product Shopper InvoiceManager

Serializable ShopperManager	
list of shopper read objects from a binary file save objects to a binary file	Shopper

Serializable AdministratorManager	
list of administrator read objects from a binary file save objects to a binary file	Administrator

Serializable	ProductManager	
list of product read objects from a binary file save objects to a binary file	Product	

Serializable	CategoryManager	
list of categorie read objects from a binary file save objects to a binary file	Category	

Serializable	InvoiceManager	
list of invoice read objects from a binary file save objects to a binary file	Invoice	

Serializable	BackgroundManager	
list of background read objects from a binary file save objects to a binary file	Background	