Data Access Layer

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| DataAccess |
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| + Constructor DataAccess ()  + static DataSet getProducts ()  + static Product getProduct (string)  + static Customer checkLogin (string, string)  + static Customer getCustomer(String)  + static int createNewCustomer(String, String, String, String, String, String, String, String)  + static int createNewInvoice(String)  + static string getCategoryName(int)  + static int createNewProduct(String, String, String, double, double, String, int, int, int)  + static void createOrderItem(CartItem, int)  + updateStock(ArrayList)  + updateProductDetails(ArrayList)  + static int addStock(ArrayList)  + static int removeProduct(ArrayList)  - static int createNewInvoice (string, string, DateTime, double, double, double)  - static OleDbConnection openConnection ()  - static void closeConnection (OleDbConnection) |

Business Logic Layer

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| CartItem |
| - String strID  - String strName  - String strProductDesc  - double dblPrice  - double dblUnitPrice  - int intQty  - int intStock  - int intReOrderLevel  - int intCategoryID; |
| + Constructor CartItem (String, String, double, int)  + Constructor CartItem(String, String, String, double, int)  + String getID ()  + void setID (string)  + String getName ()  + void setName (String)  + double getPrice ()  + void setPrice (double)  + int getQty ()  + void setQty (int)  + String getProductDesc()  + void setProductDesc(String)  + double getUnitPrice(double)  + void setIntStock(int)  + int getIntStock()  + void setReOrderLevel(int)  + int getReOrderLevel()  + void setCategoryID(int)  + int getCategoryID()  + void createOrderItem(int) |

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| ProductList |
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| + Constructor ProductList ()  + static DataSet getMyProducts (String) |

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| Customer |
| - String email, lastname, firstname, address, city, postcode, phone, pwd |
| + Constructor createCustomer (String, String, String, String, String, String, String, String)  + String getEmail ()  + void setEmail (string)  + String getLastName ()  + void setLastName (String)  + String getFirstName()  + void setFirstName(String)  + String getHomeAddress()  + void setHomeAddress(String)  + String getCity()  + void setCity(String)  + String getPostCode()  + void setPostcode(String)  + void setPhone(String)  + String getPhone()  + void setPwd(String)  + String getPwd()  + void loadCustomer(String)  + String Email  + String getFullName()  + String getAddress()  + void storeEmail(String)  + static Customer checkLogin (String, String) |

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| Invoice |
| - int intInvoice  - String strEmail, strShipping  - DateTime orderDate  - double subtotal, shippingPrice, total |
| + Constructor Invoice (String, double, double, String)  + void createInvoice ()  + int getInvoice () |

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| Product |
| - String strProduct, strProductName, strProductDesc, strImageFile  - int intStock, intReOrderLevel, intCategoryID  - double dblPrice, dblUnitPrice |
| + Constructor Product(String, String, String, double, double, String, int, int, int)  + void createProduct()  + void loadProduct (String)  + String getStrProductID ()  + void setStrProductID (String)  + String getStrProductName ()  + void setStrProductName (String)  + String getStrProductDesc ()  + void setStrProductDesc (String)  + String getStrImageFile ()  + void setStrImageFile (String)  + double getUnitPrice ()  + void setUnitPrice (double)  + double getDblPrice()  + void setDblPrice(double)  + int getIntStock ()  + void getIntStock (int)  + int getReOrderLevel()  + void setCategoryID(int)  + int getCategoryId()  + String getCategoryName(int)  + int updateStock(ArrayList)  + int addStock(ArrayList)  + int removeProduct(ArrayList)  + int editProduct(ArrayList) |