DATABASE STRUCTURE:

* Customer:

Customer ID, Customer Name, Customer Address, Customer Phone.

* Purchases:

Purchase ID, Customer ID, Product ID, Price, Quantity, Cost, Tax, Total, Date.

* Product:

Product ID, Product Name, Product Price, Quantity, Purchase price, Selling price, Provider ID

* Users:

Username, Password, Full name, User type, Customer ID

FUNCTIONS:

* CUSTOMER:
  + Make a Purchase
  + View Purchase History
  + Search Product
* CASHIER:
  + Add New Customer
  + Add New Purchase
* MANAGER:
  + Manage Product
  + Manage Customer
* ADMIN:
  + Add/ Update User
* USER:
  + Change Password/ Full name

|  |
| --- |
| AddPurchaseUI:   * ProductIDFocusListener * CustomerIDFocusListener * QuantityChangeListener * AddButtonListener   CashierUI:   * btnAddNewPurchase -> new AddPurchaseUI   CustomerUI:   * btnMakePurchase -> new ManageCustomerUI * btnCancelPurchase -> XXXXXXX * btnViewPurchase -> new PurchaseHistoryUI * btnSearchProduct -> ProductSearchUI   LoginUI:  ProductSearchUI:  PurchaseHistoryUI:  ManageCustomerUI:   * LoadCustomer * SaveCustomer   ManageProductUI:   * LoadProduct * SaveProduct   ManageUI:   * btnManageProduct -> new ManageProductUI * btnManageCustomer -> new ManageCustomerUI |
| MessageModel:   * GET/ PUT error codes   CustomerModel:   * Variables * toString()   ProductModel:   * Variables * toString()   PurchaseModel:   * Variables * toString()   UserModel:   * UserType declarations * Variables * toString()   SearchProductParamModel:   * Variables |
| IDataAdapter:   * load/save Product; * load/save Customer; * load/save Purchase; * loadPurchaseHistory; * searchProduct; * load/save User;   SQLiteDataAdapter:   * implements IDataAdapter   INetworkAdapter:   * String exchange (); * MessageModel exchange ();   NetworkDataAdapter:   * Implements IDataAdapter   OracleDataAdapter:   * Implements IDataAdapter   SocketNetworkAdapter:   * Implements INetworkAdapter |
| IReceiptBuilder:  ProductListModel: ProductModel ArrayList  PurchaseListModel: PurchaseModel ArrayList  StoreClient:   * Client main ()   StoreServer:   * DB File Address * If MessageModel == GET\_PRODUCT/PUT\_PRODUCT/CUSTOMER >>> |