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Project Name	Store inventory management system

Project Description:

Store inventory management system which achieves objectives mentioned below. These are just few of many tasks which it can perform-

- Add
 - available products
 - customer details
 - description of new product
 - new entered category of products
- Maintain
 - Available products
 - Customer details
 - Description of new products
 - New entered category of products
- Provides a convenient solution of billing pattern.
- Make an easy to use environment for users and customers.
- User management option
- RMA module (return merchandise authorization) is also added which keeps track of product returns, replacements, refunds or damaged product covered under warranty period.

It can be used for tracking inventory count, sales, purchases, deliverables and much more where inventory management module is required. It is a very good replacement to book-keeping and maintaining spreadsheets for inventory purpose, along with additional features.

Features:

- Management of stock
- Sales and purchases
- User management with added roles
- Summary details
- Light in handling and responsive



Technology and Software used	
Language (backend)	Java
Framework	JavaFx
Front-end	FXML, CSS (User interface given by XML and CSS provides fxml formatting)
Database	MySQL DBMS

List of entities used in store inventory management system		
Brands	Products	Unit
Category	RMA	User
Customer	Sell	Userpermission
Organize	Supplier	

List of entities and it attributes	
Brands	Id, BrandName, Description, SupplierId, CreatorId, Date
Category	Id, CategoryName, CategoryDescription, BrandId, SupplierId, CreatorId, Date
Customer	Id, CustomerName, CustomerAddress, TotalBuy, CreatorId, Date
Organize	Id, OrgName, OrgWeb, OrgContactNumbers, OrgContactAddress, OrgLogo, UserId
Products	Id, ProductName, Quantity, Description, SupplierId, BrandId, CategoryId, UnitId, PursesPrice, SellPrice, RMAId, UserId, Date
RMA	Id, RMAName, RMADays, Comment, CreatorId, Date
Sell	Id, SellId, CustomerId, ProductId, PursesPrice, SellPrice, Quantity, TotalPrice, WarrentyVoidDate, SellerId, SellDate
Supplier	Id, SupplierName, SupplierPhoneNumber, SupplierAddress, SupplierDescription, CreatorId, Date
Unit	Id, UnitName, UnitDescription, CreatorId, Date
User	Id, UsrName, FullName, EmailAddress, ContactNumber, Salary, Address, Password, Status, UserImage, Date, CreatorId
Userpermission	Id, AddProduct, AddSupplier, AddBrand, AddCategory, AddUnit, AddCustomer, UpdateProduct, UpdateSupplier, UpdateBrand, UpdateCategory, UpdateUnit, UpdateCustomer, RMAManage, SellProduct, ProvideDiscount, EmployerManage, OrgManage, OrgManage, ChangeOwnPass, UserId



DDL statements of all the entities:

1. Table: brands

```
CREATE TABLE `brands` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `BrandName` varchar(70) DEFAULT NULL,  
  `Description` text,  
  `SupplierId` varchar(20) DEFAULT NULL,  
  `CreatorId` int(11) DEFAULT NULL,  
  `Date` date DEFAULT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

2. Table: Category

```
CREATE TABLE `Category` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `CategoryName` varchar(70) DEFAULT NULL,  
  `CategoryDescription` text,  
  `BrandId` varchar(20) DEFAULT NULL,  
  `SupplierId` int(11) DEFAULT NULL,  
  `CreatorId` int(11) DEFAULT NULL,  
  `Date` date DEFAULT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

3. Table: customer

```
CREATE TABLE `customer` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `CustomerName` varchar(200) NOT NULL,  
  `CustomerContNo` varchar(200) DEFAULT NULL,  
  `CustomerAddress` text,  
  `TotalBuy` varchar(50) DEFAULT NULL,  
  `CreatorId` varchar(11) DEFAULT NULL,  
  `Date` datetime NOT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```



4. Table: organize

```
CREATE TABLE `organize` (  
  `Id` int(1) NOT NULL,  
  `OrgName` varchar(100) DEFAULT NULL,  
  `OrgWeb` varchar(100) DEFAULT NULL,  
  `OrgContactNumbers` text,  
  `OrgContactAddress` text,  
  `OrgLogo` mediumblob,  
  `UserId` int(11) DEFAULT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

5. Table: products

```
CREATE TABLE `products` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `ProductId` varchar(20) NOT NULL,  
  `ProductName` varchar(150) NOT NULL,  
  `Quantity` varchar(11) NOT NULL DEFAULT '0',  
  `Description` text,  
  `SupplierId` varchar(11) NOT NULL,  
  `BrandId` varchar(11) NOT NULL,  
  `CategoryId` varchar(11) NOT NULL,  
  `UnitId` varchar(11) NOT NULL,  
  `PursesPrice` varchar(100) NOT NULL,  
  `SellPrice` varchar(100) NOT NULL,  
  `RMAId` varchar(11) NOT NULL,  
  `UserId` varchar(11) NOT NULL,  
  `Date` date NOT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

6. Table: rma

```
CREATE TABLE `rma` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `RMAName` varchar(100) DEFAULT NULL,  
  `RMADays` varchar(11) NOT NULL,  
  `Comment` text,  
  `CreatorId` int(11) DEFAULT NULL,  
  `Date` date DEFAULT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)
```



```
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

7. Table: sell

```
CREATE TABLE `sell` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `SellId` varchar(10) NOT NULL,  
  `CustomerId` varchar(11) NOT NULL,  
  `ProductId` varchar(11) NOT NULL,  
  `PursesPrice` double NOT NULL,  
  `SellPrice` double NOT NULL,  
  `Quantity` int(10) NOT NULL,  
  `TotalPrice` double NOT NULL,  
  `WarrentyVoidDate` varchar(20) NOT NULL,  
  `SellerId` int(11) NOT NULL,  
  `SellDate` datetime NOT NULL,  
  PRIMARY KEY (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

8. Table: supplier

```
CREATE TABLE `supplier` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `SupplierName` varchar(100) DEFAULT NULL,  
  `SupplierPhoneNumber` text,  
  `SupplierAddress` text,  
  `SupplierDescription` text,  
  `CreatorId` int(11) DEFAULT NULL,  
  `Date` date NOT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

9. Table: unit

```
CREATE TABLE `unit` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `UnitName` varchar(50) DEFAULT NULL,  
  `UnitDescription` text,  
  `CreatorId` int(11) DEFAULT NULL,  
  `Date` date DEFAULT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```



10.Table: user

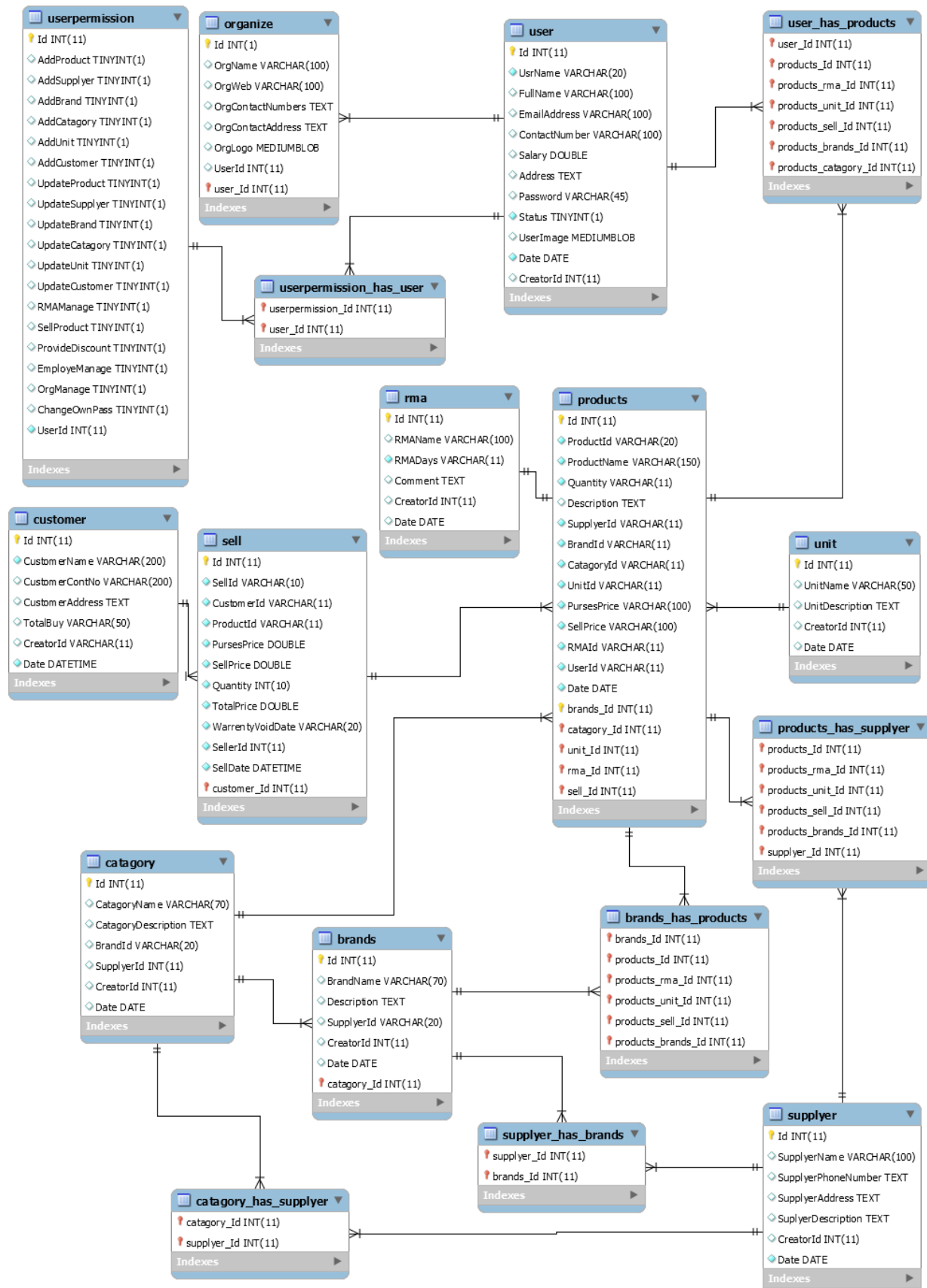
```
CREATE TABLE `user` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `UsrName` varchar(20) NOT NULL,  
  `FullName` varchar(100) DEFAULT NULL,  
  `EmailAddress` varchar(100) DEFAULT NULL,  
  `ContactNumber` varchar(100) DEFAULT NULL,  
  `Salary` double DEFAULT NULL,  
  `Address` text,  
  `Password` varchar(45) DEFAULT NULL,  
  `Status` tinyint(1) NOT NULL DEFAULT '0',  
  `UserImage` mediumblob,  
  `Date` date NOT NULL,  
  `CreatorId` int(11) DEFAULT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

11.Table: userpermission

```
CREATE TABLE `userpermission` (  
  `Id` int(11) NOT NULL AUTO_INCREMENT,  
  `AddProduct` tinyint(1) DEFAULT NULL,  
  `AddSupplier` tinyint(1) DEFAULT NULL,  
  `AddBrand` tinyint(1) DEFAULT NULL,  
  `AddCategory` tinyint(1) DEFAULT NULL,  
  `AddUnit` tinyint(1) DEFAULT NULL,  
  `AddCustomer` tinyint(1) DEFAULT NULL,  
  `UpdateProduct` tinyint(1) DEFAULT NULL,  
  `UpdateSupplier` tinyint(1) DEFAULT NULL,  
  `UpdateBrand` tinyint(1) DEFAULT NULL,  
  `UpdateCategory` tinyint(1) DEFAULT NULL,  
  `UpdateUnit` tinyint(1) DEFAULT NULL,  
  `UpdateCustomer` tinyint(1) DEFAULT NULL,  
  `RMAManage` tinyint(1) DEFAULT NULL,  
  `SellProduct` tinyint(1) DEFAULT NULL,  
  `ProvideDiscount` tinyint(1) DEFAULT NULL,  
  `EmployeeManage` tinyint(1) DEFAULT NULL,  
  `OrgManage` tinyint(1) DEFAULT NULL,  
  `ChangeOwnPass` tinyint(1) DEFAULT NULL,  
  `UserId` int(11) NOT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE KEY `Id` (`Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

ERD Diagram:

Image is on next page...





Class Diagram:

