Inventory Management System

(simplify the user interaction to simple client connecting and have the client click on an item , but don’t put it in a cart. Focus on presenting the client a list of products and buttons for them to click to buy them. Show the quantity )

DB

(products, clients, providers,

quantities)

Warehouse

( products, quantities, prices, frequency of sale)

Providers

(products, prices, time to ship)

Clients

(frequency of buying, product list)

**Database**

**Tables**

clients

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Client ID\* | name | Last name | phone | address | preferred |
| Int(autoIncr) | Char (20) | char (20) | Number (10) | Char (40) | bool |

Comments:

Preferred is a Boolean identifying a preferred client. May not need this, but left it just in case

Provider

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Provider ID\* | providerName(company) | Contact Name | phone | address |
| Int(autoIncr) | Char (20) | char (20) | Number (10) | Char (40) |

Products

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| productid \* | Name | price | description | Provider1@ | Provider2@ |
| Int(autoIncr) | Char(20) | float | Char(50) | From  provider ->providerID | From  provider ->providerID |

CREATE TABLE `e\_commerce\_prj`.`products` (

`productID` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NULL,

`price` DECIMAL NULL,

`description` VARCHAR(45) NULL,

`provider1` VARCHAR(45) NULL,

`provider2` VARCHAR(45) NULL,

PRIMARY KEY (`productID`));

Providers here are the preferred providers for the item, we don’t have to use this. It will be simpler to just select any provider for any product.

Inventory (warehouse items)

|  |  |
| --- | --- |
| productid @ | Quantity |
| : “products” | int |

CREATE TABLE `e\_commerce\_prj`.`inventory` (

`productID` INT NULL,

`quantity` INT NULL,

INDEX `productID\_idx` (`productID` ASC) VISIBLE,

CONSTRAINT `productID`

FOREIGN KEY (`productID`)

REFERENCES `e\_commerce\_prj`.`products` (`productID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION);

\* Means primary key

@ Means using primary id to connect to another table, this primary ID is of the other table.

**Components MVC**

Server (express)

Database (mySQL)