Assignment

Building a Shopping Website

Introduction

Imagine you are an employee of a product retailer named **PizzaStore**. Your manager has asked you to develop a web application for member management, product management, and order management.
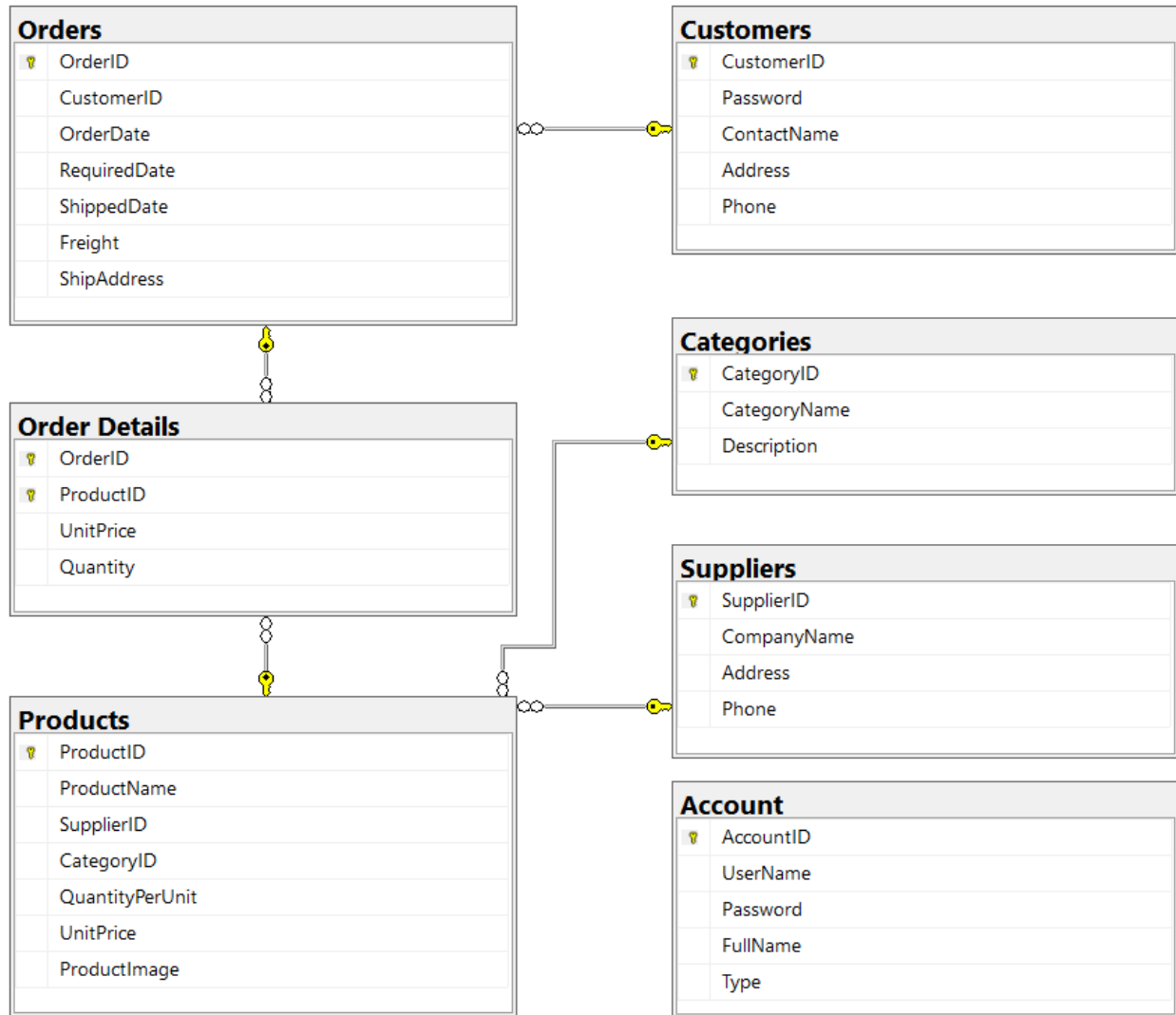
The application has to support adding, viewing, modifying, and removing products—standardized usage action verbs better known as Create, Read, Update, Delete (CRUD) and Search. This assignment explores creating an application using Java Web Application. The MS SQL Server database will be created to persist the data and it will be used for reading and managing data.

Assignment Objectives

In this assignment, you will be:

- Develop an Java Web Application by MVC2 Model, JavaBean, JSP, JSTL & Custom Tag, EL, Filter and Servlet
- Perform CRUD actions using JDBC.
- Use LINQ in Java to query and sort data (optional)
- Apply to validate data type for all fields.
- Run the project and test the Java Web Application actions.

Database Design

Orders
- OrderID
- CustomerID
- OrderDate
- RequiredDate
- ShippedDate
- Freight
- ShipAddress

Customers
- CustomerID
- Password
- ContactName
- Address
- Phone

Order Details
- OrderID
- ProductID
- UnitPrice
- Quantity

Categories
- CategoryID
- CategoryName
- Description

Suppliers
- SupplierID
- CompanyName
- Address
- Phone

Products
- ProductID
- ProductName
- SupplierID
- CategoryID
- QuantityPerUnit
- UnitPrice
- ProductImage

Account
- AccountID
- UserName
- Password
- FullName
- Type

Main Functions

- Create the database using SQL Server.
- Member management, Product management, and Order management: Read, Create, Update, and Delete actions.
- Search Product by ID, ProductName (by keyword of ProductName, no case sensitive), UnitPrice
- Create a report statistics sales by the period from StartDate to EndDate, and sort sales in descending order

- Member registration by AccountID (unique) and Password. If the user is "**Staff**" (Type=1) then allowed to perform all actions, otherwise, the normal (Type=2) user is allowed to view/create/update the profile, order, and view their orders history.

Fpt University

PizzaStore   Pizzas   Categories▾   Reviews   Register   Log in

Pizzas Menu

Serach [   ]

[Search]

All Pizzas

Capricciosa $70.00
Category: Standard
A normal pizza with a taste from the forest.
[Add Pizza]

Hawaii $75.00
Category: Standard
A nice tasting pizza from Hawaii.
[Add Pizza]

Margarita $65.00
Category: Standard
A basic pizza for everyone.
[Add Pizza]