Intern Program: Week 2 Assignment

**Purpose:** This document outlines the assignment that will be handed out following the first review for the intern program. This project is to be worked on while you complete the assigned readings for week 2, and must be completed for your Week 2 review.

**General Description:** During the intern program you will be working on an application called “StoreFront”, which will function as an ecommerce application. The purpose of this application is to provide a basic ecommerce solution for small businesses. This application will provide potential customers the ability to search and view the various projects provided by the company. They will have the ability to build a shopping cart, and ultimately submit their order.

Additionally the application will provide administrators the ability to process orders by moving them down a defined workflow.

# Week 2 Requirements:

For this week, you are tasked with assembling the database for the application. This database will be created to these specifications.

|  |  |  |
| --- | --- | --- |
| Table | User |  |
| Column Name | Data Type | Notes |
| UserID | Int | Primary Key |
| UserName | Varchar(200) |  |
| Password | Varbinary(500) |  |
| EmailAddress | Varchar(255) |  |
| IsAdmin | Bit |  |
| DateCreated | Datetime |  |
| CreatedBy | Varchar(50) |  |
| DateModified | Datetime |  |
| ModifiedBy | Varchar(50) |  |

|  |  |  |
| --- | --- | --- |
| Table | Address |  |
| Column Name | Data Type | Notes |
| AddressID | Int | Primary Key |
| UserID | Int | Foreign Key - User |
| Address1 | Varchar(200) |  |
| Address2 | Varchar(200) |  |
| Address3 | Varchar(200) |  |
| City | Varchar(200) |  |
| StateID | Int | Foreign Key - State |
| ZipCode | Varchar(20) |  |
| IsBilling | Bit |  |
| IsShipping | Bit |  |
| DateCreated | Datetime |  |
| CreatedBy | Varchar(50) |  |
| DateModified | Datetime |  |
| ModifiedBy | Varchar(50) |  |

|  |  |  |
| --- | --- | --- |
| Table | State |  |
| Column Name | Data Type | Notes |
| StateID | Int | Primary Key |
| StateAbbrev | Varchar(2) |  |
| StateName | Varchar(200) |  |

|  |  |  |
| --- | --- | --- |
| Table | Product |  |
| Column Name | Data Type | Notes |
| ProductID | Int | Primary Key |
| ProductName | Varchar(500) |  |
| Description | Varchar(1000) |  |
| IsPublished | Bit |  |
| Quantity | Int |  |
| Price | Money |  |
| ImageFile | Varchar(500) |  |
| DateCreated | Datetime |  |
| CreatedBy | Varchar(50) |  |
| DateModified | Datetime |  |
| ModifiedBy | Varchar(50) |  |

|  |  |  |
| --- | --- | --- |
| Table | ShoppingCart |  |
| Column Name | Data Type | Notes |
| ShoppingCartID | Int | Primary Key |
| UserID | Int | Foreign Key - User |
| DateCreated | DateTime |  |
| CreatedBy | Varchar(50) |  |
| DateModified | DateTime |  |
| ModifiedBy | Varchar(50) |  |

|  |  |  |
| --- | --- | --- |
| Table | ShoppingCartProduct |  |
| Column Name | Data Type | Notes |
| ShoppingCartProductID | Int | Primary Key |
| ShoppingCartID | Int | Foreign Key – ShoppingCart |
| ProductID | Int | Foreign Key – Product |
| Quantity | Int | Not null |
| DateCreated | DateTime |  |
| CreatedBy | Varchar(50) |  |
| DateModified | DateTime |  |
| ModfiedBy | Varchar(50) |  |

|  |  |  |
| --- | --- | --- |
| Table | Order |  |
| Column Name | Data Type | Notes |
| OrderiD | Int | Primary Key |
| UserID | Int | Foreign Key – User |
| AddressID | Int | Foreign Key – Address |
| OrderDate | DateTime |  |
| Total | money |  |
| StatusID | Int | Foreign Key – Status |
| DateCreated | DateTime |  |
| CreatedBy | Varchar(50) |  |
| DateModified | Datetime |  |
| ModifiedBy | Varchar(50) |  |

|  |  |  |
| --- | --- | --- |
| Table | OrderProduct |  |
| Column Name | Data Type | Notes |
| OrderProductID | Int | Primary Key |
| OrderID | Int | Foreign Key - Order |
| ProductID | Int | Foreign Key – Product |
| Quantity | Int |  |
| Price | Money |  |
| DateCreated | Datetime |  |
| CreatedBy | Varchar(50) |  |
| DateModified | Datetime |  |
| ModifiedBy | Varchar(50) |  |

|  |  |  |
| --- | --- | --- |
| Table | Status |  |
| Column Name | Data Type | Notes |
| StatusID | Int | Primary Key |
| StatusDescription | Varchar(100) |  |

# Stored Procedures:

You will also need to create the following stored procedures:

|  |  |  |
| --- | --- | --- |
| Stored Procedure Name | Parameters | Description of Functionality |
| spGetUserAddresses | @UserID | This stored procedure will return a listing of all addresses for a specific user. |
| spGetProducts | @PublishedOnly | Gets a list of all products, if @PublishedOnly = 1 then it will only bring back products that have a IsPublished = 1, if @PublishedOnly = 0 then it will bring back all products. |
| spAddShoppingCartItem | @ProductID, @UserID | This accepts a UserID and ProductID and adds it to ShoppingCartProduct and ShoppingCart if there isn’t one for that user. |
| spGetShoppingCart | @UserID | Gets a shopping cart id for a specific user. |
| spGetShoppingCartItems | @ShoppingCartID | Gets the shopping cart items for a specific shopping cart id |
| spGetOrders |  | Gets all orders in the application. |
| spGetOrderProducts | @OrderID | Gets the order products for a specific order. |
| spDeleteOrder | @OrderID | Deletes all records from the Orders with that appropriate orderID. |