Assignment 1 Sales Board

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# Introduction

Github Link: <https://github.com/ZephyrGitCode/HIT339_Assign1_Salesboard>

# Phase 1: Creating MVC Application and Data

This encompasses setting up the application from scratch, creating database model files and scaffolding items.

## Setting up Application

I started by setting up a github repository for the application. Next, I created the MVC application, ensuring to use “User Authentication” functionality.

## Modifying Identity User

I then decided that I would start with modelling the database by creating empty classes for Items, Sales and Cart. I then started the Items class, during which I got side-tracked by trying to include multiple items under 1 user and add custom fields to the current user database. Therefore, I performed the following:

1. I created an applicationUser.cs class for my new custom fields.
2. I then modified the ApplicationContext.cs to support custom user data from the applicationUser class above.
   1. Made 1 custom field with no entry yet – to be added later.
3. Now I have my Identity, I then started to add some custom fields to the Identity.
   1. I added the following custom fields to the identity user: first name, last name, age, state, city, postcode, street, images. See [Figure 1.1](#_Appendix) For an image of the identity fields.
4. Having successfully made a migration with new custom user fields I then added a foreign key to users in Items and migrated.
   1. After I fixed Items class to reference Zephyr\_ApplicationUser I then migrated again.
   2. Then it worked and Item class is properly referencing the User.

## Database Modelling

Now that the Identity user table and Items table was able to reference it, then begun developing all the classes.

1. Next is to do the Items table.
   1. The items table includes the following fields: Id, SellerId (foreign key to Identity), Itemname, Itemdesc, Category, Price, Quantity, Itemimage, Postdate. See [Figure 1.2](#_Appendix) for image of Items class.
2. Then Sales table.
   1. Sale has the following: Id, ItemId and Quantity. See [Figure 1.3](#_Appendix) for image of Sales class.
3. Finally, Saleitems. This table is like Orderitems, it will handle item purchases with cart.
   1. Saleitems has the following: Id, CartId, Item, Quantity. See [Figure 1.4](#Figure1_4) for image of class.
   2. Time for migrations. I migrated the content in the following order: Identity, Items, Sales, Cart. See [Figure 1.5](#Figure1_4).
4. I then tested all the tables with two users, added some items and included some sales. This was achieved using the in-built database tool as I have not scaffolded my data yet, which is the next step.

## Scaffolding

1. Lastly, I performed scaffolding of my database classes to generate CRUD pages for them.
   1. CRUD for Items, Sales and Cart.

# Phase 2: Site Functionality and Shopping Cart

This phase encompasses the creation of filtered pages, the addition of add to cart functionality, creating and managing the shopping cart then lastly checking out.

1. First, I modified the scaffolded views to not show “Edit” or “Delete” options for user’s whom did not create the items.
   1. To Do - Apply logic that allows Admins to modify all content.
2. I created a new views page named Purchase to be interacted with in the Items controller.
   1. I then added a new link to the purchase page.
3. Next, I added the following actions to the Items controller
   1. GET: Purchase – Loads the purchase view page with the item data.
   2. POST: Purchase – Creates a new session and inserts a new cart record into the DB.
4. I then modified the carts index page with a checkout action then created the action in the carts controller.
   1. POST: Checkout – For each item in cart, create a new sale.
5. Next, I

# Appendix

Figure 1.

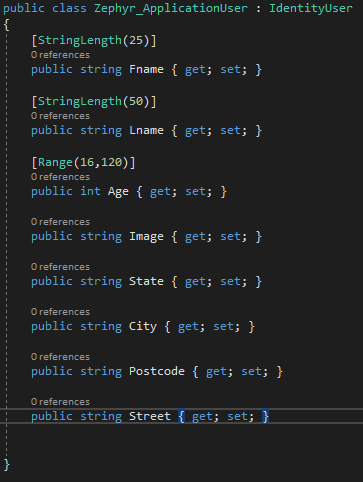


Figure 2.

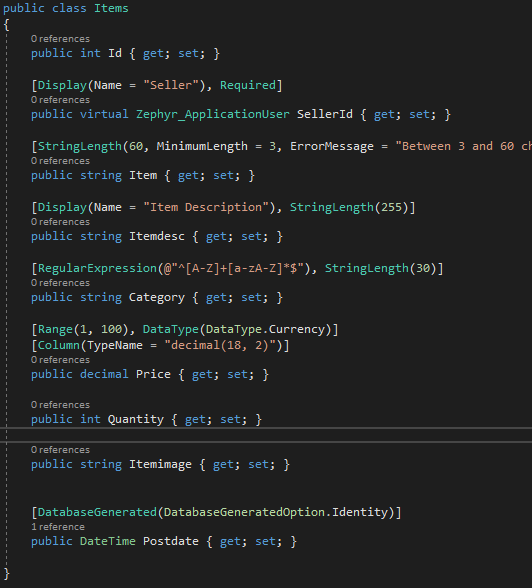


Figure 1.3

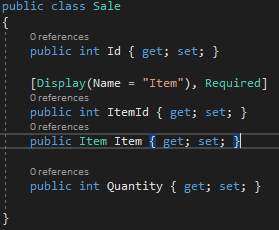


Figure 1.4

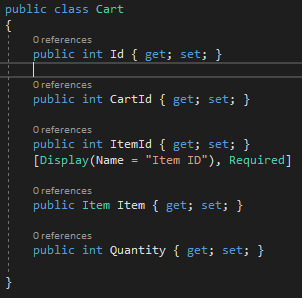


Figure 1.5

