Other Models & Cart

Make the models for customer,order, orderitem and shipping-address to add data for the cart and checkout page in the models.py inside web-pages app.

```python
class Customer(models.Model):

    user = models.OneToOneField(User, on_delete=models.CASCADE, null=True,
blank=True)

    name = models.CharField(max_length=200, null=True, blank=True)

    email = models.CharField(max_length=200, null=True, blank=True)


    def __str__(self):

        return self.name


class Order(models.Model):

    customer = models.ForeignKey(Customer, on_delete=models.SET_NULL, null=True,
blank=True)

    date_ordered = models.DateTimeField(auto_now_add=True)

    complete = models.BooleanField(default=False, null=True, blank=False)

    transaction_id = models.CharField(max_length=200, null=True)


    def __str__(self):

        return str(self.id)


class OrderItem(models.Model):

    product = models.ForeignKey(Product, on_delete=models.SET_NULL, null=True,
blank=True)
```

```python
    order = models.ForeignKey(Order, on_delete=models.SET_NULL, null=True,
blank=True)

    quantity = models.IntegerField(default=0, null=True, blank=True)

    date_added = models.DateTimeField(auto_now_add=True)


class ShippingAddress(models.Model):

    customer = models.ForeignKey(Customer, on_delete=models.SET_NULL, null=True,
blank=True)

    order = models.ForeignKey(Order, on_delete=models.SET_NULL, null=True,
blank=True)

    address = models.CharField(max_length=200, null=True)

    city = models.CharField(max_length=200, null=True)

    state = models.CharField(max_length=200, null=True)

    zipcode = models.CharField(max_length=200, null=True)

    date_added = models.DateTimeField(auto_now_add=True)


    def __str__(self):

        return self.address
```

To Register the new models in the admin.py file in the webpages app, add the following code given below

```python
from django.contrib import admin

from .models import *

from django.utils.html import format_html


# Register your models here.
```

```python
class ProductAdmin(admin.ModelAdmin):

    def myphoto(self, object):

        return format_html('<img src="{}" width="70" />'.format(object.product_img.url))



    list_display = ('id', 'myphoto', 'product_name', 'product_category', 'product_price',
'product_price_discounted', 'created_date')

    search_fields = ('product_name', 'product_category')

    list_display_links = ('id','product_name')

    list_editable = ('product_price', 'product_price_discounted',)




admin.site.register(Product, ProductAdmin)

admin.site.register(Customer)

admin.site.register(Order)

admin.site.register(OrderItem)

admin.site.register(ShippingAddress)
```

To make migration to add the new model to the database.

Command: python manage.py makemigrations

Message:
webpages\migrations\0006_customer_order_shippingaddress_orderitem.py

   - Create model Customer

   - Create model Order

   - Create model ShippingAddress

   - Create model OrderItem

Command: python manage.py migrate

Message: Run this command to migrate the models in the database.

Now runserver to check the data is safe and protected.

Command: python manage.py runserver

Now create entries for Order, OrderItem, Customer tables to check the cart and checkout pages.

Make the changes as shown in the attached files models.py and views.py inside the web-pages folder

Now make the changes in the cart.html and checkout.html to show the data coming from the models. Also made some changes in base.html and shop.htm