ECCOMMERCE WEBSITE WITH ALL FUNCTINALITIES

PATR 1:

TWO MODELS OF CATEGORY AND ITEM

CATEGORY MODEL

class Category(models.Model):

    name = models.CharField(max\_length=200,db\_index=True)

    slug=models.SlugField(unique=True)

    description = models.TextField()

    image = models.ImageField(default='default.jpg', upload\_to='productImages')

    is\_latest=models.BooleanField(default=False)

    class Meta:

        ordering=('name',)

        verbose\_name='category'

        verbose\_name\_plural='categories'

    def \_str\_(self):

        return self.name

#HII NI KWA AJILI YA KUPATA PRODUCT ZILIZOPO KWENYE CATEGORY HUSIKA

    def get\_absolute\_url(self):

        return reverse('product\_by\_category', args=[self.slug])

ITEM MODEL

HIZO LINK NYINGINE NI KWA AJILI YA PAGE ZINAZOKUJA HUKO CHINI KM KUADI NA KUREMOVE ITEM FROM A CART.

class Item(models.Model):

    category = models.ForeignKey(Category, on\_delete=models.CASCADE)

    title = models.CharField(max\_length=200)

    price = models.IntegerField()

    discount\_price = models.IntegerField(blank=True, null=True)

    slug = models.SlugField()

    status = models.CharField(max\_length=200)

    #category = models.CharField(choices=CATEGORY\_CHOICES, max\_length=2)

    #label = models.CharField(choices=LABEL\_CHOICES, max\_length=2)

    description = models.TextField()

    image = models.ImageField(default='default.jpg', upload\_to='productImages')

    available=models.BooleanField(default=True)

    created=models.DateTimeField(auto\_now\_add=True)

    updated=models.DateTimeField(auto\_now=True)

    is\_latest=models.BooleanField(default=False)

    is\_featured=models.BooleanField(default=False)

    def \_\_str\_\_(self):

        return self.title

#II NI KWA AJILI MTU AKICLICK AENDE KWENYE DETAIL PAGE YA HIYO PRODUCT

    def get\_absolute\_url(self):

        return reverse('blog\_detail', args=[self.id, self.slug])

#HII NI KWA AJILI YA KUADI ITEM TO A CART

    def get\_add\_to\_cart\_url(self):

        return reverse('add\_to\_cart', kwargs={'slug': self.slug, 'id': self.id})

#HII NI KWA AJILI YA KUREMOVE ITEM FROMA CART

    def get\_remove\_from\_cart\_url(self):

        return reverse('remove\_from\_cart', kwargs={'slug': self.slug, 'id': self.id})

#HII NI KWA AJILI YA KUREMOVE ITEM MOJAMOJA FROM A CART ENDAPO UTACLICK MINUS SIGN

    def get\_remove\_single\_from\_cart\_url(self):

        return reverse('remove\_single\_from\_cart', kwargs={'slug': self.slug, 'id': self.id})

IN VIEWS.PY

VIEW YA KUDISPLAY ALL PRODUCTS AND THEIR CATEGORIES MIMI NIMEIITA BLOG

def blog(response,category\_slug=None):

    category = None

    cate = Category.objects.filter(is\_latest=True)

    categories = Category.objects.all()

    item = Item.objects.all()

    if category\_slug:

        category = get\_object\_or\_404(Category,slug=category\_slug)

        item= item.filter(category=category)

    context = {"categories":categories, "category":category, "item":item, "cate":cate}

    return render(response, 'becomarketing/blog.html', context)

PAGE YA DETAIL YA PRODUCT MOJAMOJA MIMI NIMEIITA BLOG\_DETAIL.

ILA NIMETUMIA ZOTE ID AU SLUG ILA UNAWEZA TUMIA MOJA TU.

def blog\_detail(response, id, slug):

    item= get\_object\_or\_404(Item,id=id, slug=slug)

    #viewdetail = Story.objects.get(id=pk)

    context= {"item":item}

    return render(response, 'becomarketing/blog-details.html', context)

URLS.PY OF THE APPLICATION

path('blog/', views.blog, name="blog"),

path('<slug:category\_slug>/', views.blog, name="product\_by\_category"),

path('<int:id>/<slug:slug>/', views.blog\_detail, name="blog\_detail"),

HIZO NDIZO ZA UMUHIMU KWA AJILI YA HIZO PAGE 2 ILA KWA AJILI YA PAGE NYINGINE KM ZA ADD TO CART, REMOVE TO CART AND ORDER SUMMARY UNAWEZA TUMIA HII YACHINI.

from django.urls import path

from .import views

urlpatterns = [

    path('', views.home, name="home"),

    path('blog/', views.blog, name="blog"),

    path('<slug:category\_slug>/', views.blog, name="product\_by\_category"),

    path('add\_to\_cart/<int:id>/<slug>/', views.add\_to\_cart, name="add\_to\_cart"),

    path('remove\_from\_cart/<int:id>/<slug>/', views.remove\_from\_cart, name="remove\_from\_cart"),

    path('order\_summary', views.OrderSummaryView.as\_view(), name="order\_summary"),

    path('remove\_single\_from\_cart/<int:id>/<slug>/', views.remove\_single\_from\_cart, name="remove\_single\_from\_cart"),

    path('<int:id>/<slug:slug>/', views.blog\_detail, name="blog\_detail"),

]

TEMPLATES

BLOG.HTML

{% extends 'becomarketing/base.html' %}

{% load static %}

{% block title %}Services lists{% endblock %}

{% block content %}

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <meta content="" name="description">

  <meta content="" name="keywords">

  <!-- =======================================================

  \* Template Name: eBusiness - v4.3.0

  \* Template URL: https://bootstrapmade.com/ebusiness-bootstrap-corporate-template/

  \* Author: BootstrapMade.com

  \* License: https://bootstrapmade.com/license/

  ======================================================== -->

</head>

<body>

    <!-- ======= Blog Page ======= -->

    <div class="blog-page area-padding">

      <div class="container">

        <div class="row">

          <div class="col-lg-4 col-md-4">

            <div class="page-head-blog">

              <div class="single-blog-page">

                <!-- search option start -->

                <!-- search option end -->

              </div>

              <div class="single-blog-page">

                <!-- recent start -->

                <div class="left-blog">

                  <h4>Latest Services</h4>

                  <div class="recent-post">

                    <!-- start single post -->

                    {% for x in cate %}

                    <div class="recent-single-post">

                      <div class="post-img">

                        <a href="#">

                          <img src="{{x.image.url}}" alt="">

                        </a>

                      </div>

                      <div class="pst-content">

                        <p style="color: black;font-weight: bold;font-family: bold;"><a href="#">

                      {{x.description}}

                        </a></p>

                      </div>

                    </div>

                    {% endfor %}

                    <!-- End single post -->

                      </div>

                </div>

                <!-- recent end -->

              </div>

              <div class="single-blog-page">

                <div class="left-blog">

                  <h4>categories</h4>

                  <ul>

                    {% for x in categories %}

                    <li>

                     <a href="{{x.get\_absolute\_url}}" style="color: black;font-weight: bold;font-family: bold;"> {{x.name}}</a>

                    </li>

                    {% endfor %}

                  </ul>

                </div>

              </div>

           </div>

                </div>

          <!-- End left sidebar -->

          <!-- Start single blog -->

          <div class="col-md-8 col-sm-8 col-xs-12">

            <div class="row">

              {% for object in item %}

              <div class="col-md-12 col-sm-12 col-xs-12">

                <div class="single-blog">

                  <div class="single-blog-img">

                    <a href="blog-details.html">

                      <img src="{{object.image.url}}" style="width: 800px;height: 500px;;" alt="">

                    </a>

                  </div>

                  <div class="blog-meta">

                    <span class="comments-type">

                      <i class="bi bi-chat"></i>

                   <!----   <a href="#">11 comments</a>---->

                    </span>

                    <span class="date-type">

                      <i class="bi bi-calendar">

                      </i>{{object.created}}

                    </span>

                  </div>

                  <div class="blog-text">

                    <h4 class="font-weight-bold blue-text">

                      {% if object.discount\_price %}

                      <p style="color: blueviolet;font-weight: bold;font-size: 18px;margin-left: 20px;font-family: bold;">Discount Price:${{object.discount\_price}}</p>

                    <del>  <strong style="font-weight: bold;font-size: 15px;">Price:${{object.price}}</strong></del>

                      {% else %}

                      <p style="color: blueviolet;font-weight: bold;font-size: 18px;margin-left: 20px;font-family: bold;">Price:${{object.discount\_price}}</p>

                      {% endif %}

                    </h4>

                    <h4>

                      <a href="#">{{object.title}}</a>

                    </h4>

                    <p>

                      {{object.description}}

                     </p>

                  </div>

                  <span>

                    <a href="{{object.get\_absolute\_url}}" class="ready-btn">Read more</a>

                  </span>

                  {% endfor %}

                </div>

              </div>

              <!-- End single blog -->

            </div>

          </div>

        </div>

      </div>

    </div><!-- End Blog Page -->

  </main><!-- End #main -->

</body>

</html>

{% endblock %}

BLOG\_DETAIL.HTML

{% extends 'becomarketing/base.html' %}

{% load static %}

{% load cart\_template\_tags %}

{% block title %}service details{% endblock %}

{% block content %}

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <meta content="" name="description">

  <meta content="" name="keywords">

  <!-- =======================================================

  \* Template Name: eBusiness - v4.3.0

  \* Template URL: https://bootstrapmade.com/ebusiness-bootstrap-corporate-template/

  \* Author: BootstrapMade.com

  \* License: https://bootstrapmade.com/license/

  ======================================================== -->

</head>

<body>

    <!-- ======= Blog Page ======= -->

    <div class="blog-page area-padding">

      <div class="container">

        <div class="row">

          <!-- Start single blog -->

          <div class="col-md-8 col-sm-8 col-xs-12">

            <div class="row">

              <div class="col-md-12 col-sm-12 col-xs-12">

                <!-- single-blog start -->

                <article class="blog-post-wrapper">

                  <div class="post-thumbnail">

                    <img src="{{item.image.url}}" style="width:1500px;height: 800px;" alt="" />

                  </div>

                  <div class="post-information">

                    <h2>{{item.title}}</h2>

                    <div class="entry-meta">

                      <span><i class="bi bi-clock"></i> {{item.created}}</span>

                     </div>

                    <div class="entry-content">

                      <p>

                        {{item.description}}

                      <p>

                        <h4 class="font-weight-bold blue-text">

                          {% if item.discount\_price %}

                          <p style="color: blueviolet;font-weight: bold;font-size: 18px;margin-left: 20px;font-family: bold;">Discount Price:Tz {{item.discount\_price}} sh.</p>

                        <del>  <strong style="font-weight: bold;font-size: 15px;">Price:Tz {{item.price}} sh.</strong></del>

                          {% else %}

                          <p style="color: blueviolet;font-weight: bold;font-size: 18px;margin-left: 20px;font-family: bold;">Price:Tz {{item.discount\_price}} sh.</p>

                          {% endif %}

                        </h4>

                       </p>

                    </div>

                  </div>

                </article>

                <div class="clear"></div>

                  <div class="comment-respond">

                  <!---- <input type="submit" value="Weka Oda" />

                   <input type="submit" value="Ondoa Oda" />--->

                   <a href="{{item.get\_add\_to\_cart\_url}}" class="btn btn-primary btn-md my-0 p" type="submit">Weka Oda

                    <i class="fas fa-shopping-cart ml-1"></i>

                  </a>

                  <a href="{{item.get\_remove\_from\_cart\_url}}" class="btn btn-danger btn-md my-0 p" type="submit">Ondoa Oda

                    <i class="fas fa-shopping-cart ml-1"></i>

                  </a>

                  </div>

                      </div>

                    </form>

                  </div>

                </div>

                <!-- single-blog end -->

              </div>

            </div>

          </div>

        </div>

      </div>

    </div><!-- End Blog Page -->

  </main><!-- End #main -->

  <div>

    <ul class="navbar-nav nav-flex-icons">

        <li class="nav-item">

          <p style="color: black;font-weight: bold;">

            TOTAL ITEMS ORDERED:

          <button style="background-color:black;">  <span class="badge red z-depth-1 mr-1"style="color:red;font-size:20px;">{{ request.user|cart\_item\_count}}</span> </p>

          </button>

            <i class="fas fa-shopping-cart"></i>

        <a href="{% url 'order\_summary' %}" class="nav-link waves-effect">

            <button style="background-color:yellow;">

   <span class="badge red z-depth-1 mr-1"style="color:red;font-size:20px;">Check Your Order</span> </p>

            </button>

        </a>

        </li>

    </ul>

  </div>

</body>

</html>

{% endblock %}

END OF PART1

PART2:

TO ADD TO A CART AND REMOVE FROM A CART AND ORDER SUMMARY

ADD HIZI TWO MODELS IN

MODELS.PY

class OrderItem(models.Model):

    #category = models.ForeignKey(Category, on\_delete=models.CASCADE)

    user = models.ForeignKey(User, on\_delete=models.CASCADE)

    item = models.ForeignKey(Item, on\_delete=models.CASCADE)

    ordered = models.BooleanField(default=False)

    quantity = models.IntegerField(default=1)

    def \_\_str\_\_(self):

        return f"{self.quantity} of {self.item.title}"

    def get\_total\_item\_price(self):

        return self.quantity \* self.item.price

    def get\_total\_item\_discount\_price(self):

        return self.quantity \* self.item.discount\_price

    def get\_amount\_saved(self):

        return self.get\_total\_item\_price() - self.get\_final\_price()

    def get\_final\_price(self):

        if self.item.discount\_price:

            return self.get\_total\_item\_discount\_price()

        return self.get\_total\_item\_price()

class Order(models.Model):

    #category = models.ForeignKey(Category, on\_delete=models.CASCADE)

    user = models.ForeignKey(User, on\_delete=models.CASCADE)

    items = models.ManyToManyField(OrderItem)

    ordered = models.BooleanField(default=False)

    start\_date = models.DateTimeField(auto\_now\_add=True)

    ordered\_date = models.DateTimeField()

    def \_\_str\_\_(self):

        return self.user.username

    def get\_total(self):

        total = 0

        for order\_item in self.items.all():

            total += order\_item.get\_final\_price()

        return total

THEN IN VIEWS.PY

ADD THE FOLLOWING VIEWS;

def add\_to\_cart(request, id, slug):

    item = get\_object\_or\_404(Item, id=id, slug=slug)

    order\_item, created = OrderItem.objects.get\_or\_create(

        item=item,

        user=request.user,

        ordered=False,

    )

    order\_qs = Order.objects.filter(user=request.user, ordered=False)

    if order\_qs.exists():

        order = order\_qs[0]

        if order.items.filter(item\_id=item.id, item\_\_slug=item.slug).exists():

            order\_item.quantity += 1

            order\_item.save()

            messages.success(request, f"{item}'s quantity was updated")

            return redirect('order\_summary')

        else:

            order.items.add(order\_item)

order.save()

            messages.success(request, f"{item} was added to your Order")

            return redirect('order\_summary')

    else:

        ordered\_date = timezone.now()

        order = Order.objects.create(

            user=request.user, ordered=False, ordered\_date=ordered\_date)

        order.items.add(order\_item)

order.save()

        messages.success(request, f"{item} was added to your Order")

        return redirect('order\_summary')

def remove\_from\_cart(request, id, slug):

    item = get\_object\_or\_404(Item, id=id, slug=slug)

    order\_item, created = OrderItem.objects.get\_or\_create(

        item=item, user=request.user, ordered=False)

    order\_qs = Order.objects.filter(user=request.user, ordered=False)

    if order\_qs.exists():

        order = order\_qs[0]

        if order.items.filter(item\_id=item.id, item\_\_slug=item.slug).exists():

            order.items.remove(order\_item)

            order.save()

            messages.success(request, f"{item.title} was removed from your Order")

            return redirect('order\_summary')

        else:

            messages.info(request, f"{item.title} was not in your Order")

            return redirect('order\_summary')

    else:

        messages.info(request, "You don't have an active order!")

        return redirect('order\_summary')

def remove\_single\_from\_cart(request, id, slug):

    item = get\_object\_or\_404(Item, id=id, slug=slug)

    order\_item, created = OrderItem.objects.get\_or\_create(

        item=item, user=request.user, ordered=False)

    order\_qs = Order.objects.filter(user=request.user, ordered=False)

    if order\_qs.exists():

        order = order\_qs[0]

        if order.items.filter(item\_\_id=item.id, item\_\_slug=item.slug).exists():

            if order\_item.quantity > 1:

                order\_item.quantity -= 1

                order\_item.save()

            else:

                order.items.remove(order\_item)

                order.save()

            messages.success(request, f"{item}'s quantity was updated")

            return redirect('order\_summary')

        else:

            messages.info(request, f"{item.title} was not in your Order")

            return redirect('order\_summary')

    else:

        messages.info(request, "You don't have an active Order!")

        return redirect('order\_summary')

class OrderSummaryView(View):

    def get(self, \*args, \*\*kwargs):

        order = Order.objects.get(user=self.request.user, ordered=False)

        context = {

            'order':order

        }

        return render(self.request, 'becomarketing/order\_summary.html',context)

TEMPLATES FOR ORDER SUMMARY

ORDER\_SUMMARY.HTML

{% extends 'becomarketing/base.html' %}

{% load static %}

{% block title %}Order Summary{% endblock %}

{% block content %}

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <script type="applijewelleryion/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>

  <link href="{% static 'becomarketing/css/bootstrap.css' %}" rel='stylesheet' type='text/css' />

  <link href="css/style.css" rel='stylesheet' type='text/css' />

  <!-- Custom Theme files -->

  <link href="{% static 'becomarketing/css/animate.css' %}" rel="stylesheet" type="text/css" media="all">

  <script src="js/wow.min.js"></script><script src="js/jquery-1.12.0.min.js"></script>

  <script src="{% static 'becomarketing/js/bootstrap.min.js' %}"></script>

    <link rel="stylesheet" href="kaz/activity/css/style.css">

</head>

<body>

  <style>

    .small-img{

      width: 70px;

      height: 70px;

    }

  </style>

  <main class="mt-5 pt-4">

    <div class="container">

      {% if messages %}

    {% for message in messages %}

      <div style="margin-top:5rem;" class="alert alert-{{ message.tags }} alert-dismissible fade show" role="alert">

        {{message}}

        <button type="button" class="close" data-dismiss="alert" aria-label="Close">

          <span aria-hidden="true">&times;</span>

        </button>

      </div>

    {% endfor %}

  {% endif %}

      <section class="mb-4">

        {% if order.items.all %}

        <h1>Order summary</h1>

        <div class="table-responsive text-nowrap">

          <table class="table">

            <thead>

              <tr>

                <th scope="col"></th>

                <th scope="col">Item title</th>

                <th scope="col">Quantity</th>

                <th scope="col">Price</th>

                <th scope="col">Total Item Price</th>

                <th scope="col">action</th>

              </tr>

            </thead>

            <tbody>

              {% for order\_item in order.items.all %}

                <tr>

                <th scope="row">

                  <img src="{{order\_item.item.image.url}}" class="rounded small-img" alt="">

                </th>

                <td>{{order\_item.item.title}}</td>

                <td>

                  <a href="{{order\_item.item.get\_remove\_single\_from\_cart\_url}}">

                    <button class="btn btn-outline-primary float-right">-</button>

                  </a>

                  {{order\_item.quantity}}

                   <a href="{{order\_item.item.get\_add\_to\_cart\_url}}">

                    <button class="btn btn-outline-primary float-right">+</button>

                  </a>

                </td>

                {% if order\_item.item.discount\_price %}

                  <td>{{order\_item.item.discount\_price}}</td>

                {% else %}

                  <td>{{order\_item.item.price}}</td>

                {% endif %}

                <td>{{order\_item.get\_final\_price}}

                  {% if order\_item.item.discount\_price %}

                    <span class="badge badge-pill badge-info">{{order\_item.get\_amount\_saved}}</span>

                  {% endif %}

                </td>

                <td>

                  <a href="{{order\_item.item.get\_remove\_from\_cart\_url}}">

                    <span style="color: red;" class="float-right">

                      <button class="btn btn-outline-primary float-right">Remove</button>

                    </span>

                  </a>

                </td>

              </tr>

              {% empty %}

                <tr>

                  <td colspan="5">

                    <a href="{% url 'blog' %}" class="btn btn-outline-primary float-right">Continue Shopping</a>

                  </td>

                </tr>

              {% endfor %}

              {% if order.get\_total %}

                <tr>

                  <td colspan="4">

                    <h4>Order total</h4>

                  </td>

                  <td colspan="1">

                    Tz {{order.get\_total}} sh.

                  </td>

                </tr>

                <tr>

                  <td colspan="5">

                    <a href="{% url 'blog' %}" class="btn btn-outline-warning float-right ml-2">Prodeed to checkout</a>

                    <a href="{% url 'blog' %}" class="btn btn-outline-primary float-right">Continue Shopping</a>

                  </td>

                </tr>

              {% endif %}

            </tbody>

          </table>

          {% else %}

          <h4 class="mt-5 pt-4">No items in your cart</h4>

          <a href="{% url 'blog' %}" class="btn btn-outline-primary">Continue Shopping</a>

          {% endif %}

        </div>

      </section>

    </div>

  </main>

  <script src={% static 'becomarketing/"js/wow.min.js' %}"></script><script src="js/jquery-1.12.0.min.js"></script>

<script src="{% static 'becomarketing/js/bootstrap.min.js' %}"></script>

</body>

</html>

{% endblock %}

IN ADMIN.PY

from django.contrib import admin

from becomarketing.models import \*

admin.site.register(Customer)

admin.site.register(OurTeam)

admin.site.register(HomeHeaderImage)

admin.site.register(HomeSlidingDetails)

admin.site.register(ContactImages)

admin.site.register(OurServices)

admin.site.register(OrderItem)

admin.site.register(Order)

@admin.register(HomeServices)

class HomeServicesAdmin(admin.ModelAdmin):

    list\_display=['title','slug','available','created','updated','price']

    list\_filter=['available','created','updated']

    list\_editable=['price','available']

    prepopulated\_fields={'slug':('title',)}

@admin.register(Item)

class ItemAdmin(admin.ModelAdmin):

    list\_display=['title','slug','available','created','updated','price']

    list\_filter=['available','created','updated']

    list\_editable=['price','available']

    prepopulated\_fields={'slug':('title',)}

@admin.register(LatestServices)

class LatestServices(admin.ModelAdmin):

    list\_display=['title','slug','available','created','updated','price']

    list\_filter=['available','created','updated']

    list\_editable=['price','available']

    prepopulated\_fields={'slug':('title',)}

@admin.register(Category)

class CategoryAdmin(admin.ModelAdmin):

    list\_display=['name','slug']

    prepopulated\_fields={'slug':('name',)}