

ECCOMMERCE WEBSITE WITH ALL FUNCTIONALITIES

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="#">

    
  </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>
<!-- 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">
              
            </a>
          </div>
        </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">
    
  </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)
            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)
        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">
                
              </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',)}
```