

Model migartions and signals task

*Customer Portal

Welcome to the Customer Portal

Customer Portal

First Name:

Last Name:

Email:

Submit

*Orders Portal

Welcome, Anandakrishnan!

Place a New Order

Product Name:

Price:

Stock:

Place Order

Your Orders:

Order #6 - benz - \$23213412.00 - 2 units - Ordered on Oct. 23, 2024, 7:30 a.m.

***models.py**

```
from django.db import models

# Create your models here.


class Customer(models.Model):                                # Customer model
    first_name = models.CharField(max_length=100)
    last_name = models.CharField(max_length=100)
    email = models.EmailField(unique=True)


class Product(models.Model):                                # Product model
    name = models.CharField(max_length=100)
    price = models.DecimalField(max_digits=10, decimal_places=2)
    stock = models.IntegerField()


class Order(models.Model):                                  # Order model
    customer = models.ForeignKey(Customer, on_delete=models.CASCADE)
    product = models.ForeignKey(Product, on_delete=models.CASCADE)
    order_date = models.DateTimeField(auto_now_add=True)


class CustomerProfile(models.Model):                        # CustomerProfile model
    customer = models.OneToOneField(Customer, on_delete=models.CASCADE)
```

***signals.py**

```
from django.db.models.signals import post_save
from django.dispatch import receiver
from .models import Customer, CustomerProfile

# Signal to automatically create a CustomerProfile when a new Customer is created
@receiver(post_save, sender=Customer)
def create_customer_profile(sender, instance, created, **kwargs):
    if created:
        CustomerProfile.objects.create(customer=instance)
```

***views.py**

```
from django.shortcuts import render
# Create your views here.

from django.shortcuts import render, redirect
from .models import Customer, Product, Order

def customer_portal(request):
    # Main page with the customer portal form
    if request.method == 'POST':
        first_name = request.POST.get('first_name')
        last_name = request.POST.get('last_name')
        email = request.POST.get('email')

        if first_name and last_name and email:
            customer = Customer.objects.create(first_name=first_name, last_name=last_name, email=email)
            return redirect('order_page', customer_id=customer.id)
        return render(request, 'customer_portal.html')

def order_page(request, customer_id):
    # Order page where the customer can place orders
    customer = Customer.objects.get(id=customer_id)

    if request.method == 'POST':
        product_name = request.POST.get('product_name')
        product_price = request.POST.get('price')
        product_stock = request.POST.get('stock')
        product = Product.objects.create(
            name=product_name,
            price=product_price,
            stock=product_stock
        )

        Order.objects.create(
            customer=customer,
            product=product
        )

        return redirect('order_page', customer_id=customer.id) # Refresh the page to show updated orders












    orders = Order.objects.filter(customer=customer) # Retrieve all orders for this customer

    return render(request, 'order_page.html', {
        'customer': customer,
        'orders': orders
    })
```

*Customer Table

Table:

newapp_customer














Filter in any column

	<u>id</u>	first_name	last_name	email
	Fil...	Filter	Filter	Filter
1	1	ananda	krishnan	ananda@gmail.com
2	2	Hari	Krishnan	hari@gmail.com
3	3	sds	sxdafsa	harsxcsi@gmail.com
4	4	wefrgrg	serghwe...	asdas@gmail.com
5	5	lekshmi	gopika	lekshmi@gmail.com
6	6	akhile...	sr	asd@gmail.com
7	7	Ananda...	R	anandakrishnan@gm...

*Orders Table

Table:

newapp_order














Filter in any column

	<u>id</u>	order_date	customer_id	product_id
	Fil...	Filter	Filter	Filter
1	1	2024-10-23 05:55:07.364490	1	1
2	2	2024-10-23 06:13:45.699216	2	2
3	3	2024-10-23 07:03:09.049546	3	3
4	4	2024-10-23 07:24:08.074860	5	4
5	5	2024-10-23 07:28:20.506929	6	5
6	6	2024-10-23 07:30:12.574402	7	6

*Product Table

Table:












newapp_product



Filter in any column

	<u>id</u>	name	price	stock
	Fil...	Filter	Filter	Filter
1	1	car	212324	2
2	2	sdsd	111	2
3	3	asdaed	213	2
4	4	food	2344	232
5	5	benz	1233445	1
6	6	benz	23213412	2

***Customer Profile Table**

Table: **newapp_customerprofile**            Filter in any column

	id	customer_id
	Filter...	Filter
1	1	2
2	2	3
3	3	4
4	4	5
5	5	6
6	6	7