Tutorial 03-A to do in class – Remember to upload the repo link to Teams

A. A cart system

View/Controller

- Go to *pages/views.py* and add the following content:

Add Entire Code

```python
class CartView(View):
    template_name = 'cart/index.html'

    def get(self, request):
        # Simulated database for products
        products = {}
        products[121] = {'name': 'Tv samsung', 'price': '1000'}
        products[11] = {'name': 'Iphone', 'price': '2000'}

        # Get cart products from session
        cart_products = {}
        cart_product_data = request.session.get('cart_product_data', {})

        for key, product in products.items():
            if str(key) in cart_product_data.keys():
                cart_products[key] = product

        # Prepare data for the view
        view_data = {
            'title': 'Cart - Online Store',
            'subtitle': 'Shopping Cart',
            'products': products,
            'cart_products': cart_products
        }

        return render(request, self.template_name, view_data)
```

```
    def post(self, request, product_id):
        # Get cart products from session and add the new product
        cart_product_data = request.session.get('cart_product_data', {})
        cart_product_data[product_id] = product_id
        request.session['cart_product_data'] = cart_product_data

        return redirect('cart_index')


class CartRemoveAllView(View):
    def post(self, request):
        # Remove all products from cart in session
        if 'cart_product_data' in request.session:
            del request.session['cart_product_data']

        return redirect('cart_index')}
```

Template/views

- Go to *pages/templates/* and create a folder *cart*
- Go to *pages/templates/cart* and create a file *index.html* with the following content:

Add Entire Code

```
{% extends 'pages/base.html' %}
{% block title %} {{title}} {% endblock %}
{% block header_title %} {{subtitle}} {% endblock %}

{% block content %}
<div class="container">
  <div class="row justify-content-center">
    <div class="col-md-12">
    <h1>Available products</h1>
    <ul>
      {% for key, product in products.items %}
        <li>
          Id: {{ key }} -
          Name: {{ product.name }} -
```

```
      Price: {{ product.price }} -
      <form method="post" action="{% url 'cart_add' key %}">
       {% csrf_token %}
        <button type="submit">Add product to cart</button>
      </form>
    </li>
   {% endfor %}
  </ul>
  </div>
</div>


<div class="row justify-content-center">
 <div class="col-md-12">
  <h1>Products in cart</h1>
   <ul>
     {% for key, product in cart_products.items %}

       <li>
        Id: {{ key }} -
        Name: {{ product.name }} -
        Price: {{ product.price }}
       </li>
     {% endfor %}
   </ul>
   <form method="post" action="{% url 'cart_removeAll' %}">
    {% csrf_token %}
     <button type="submit">Remove all products from cart</button>
   </form>
  </div>
 </div>
</div>
{% endblock %}
```
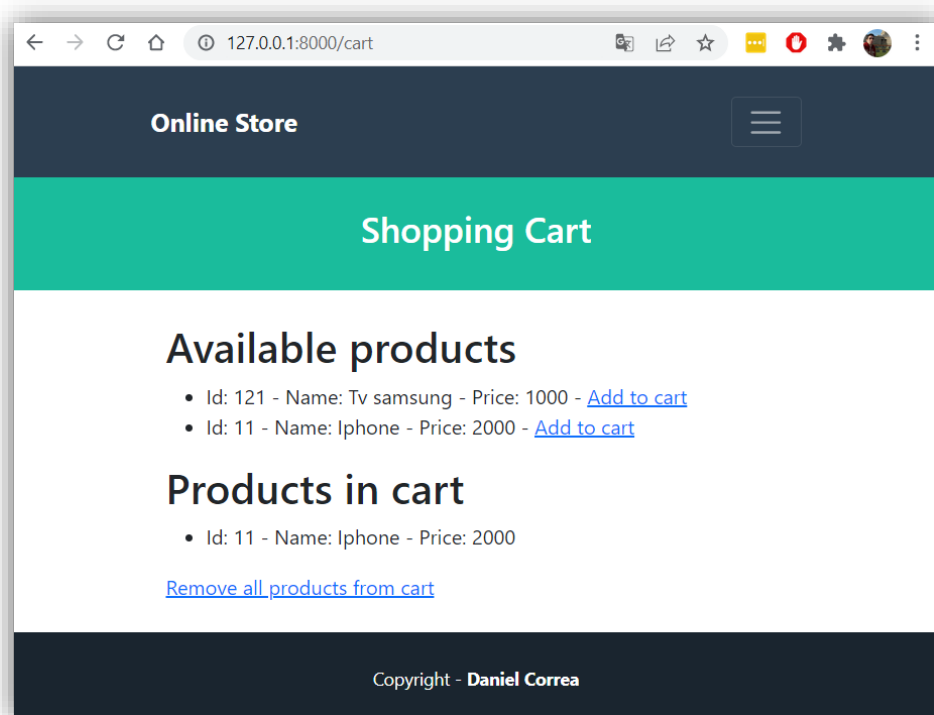
Routes

- Go to *pages/urls.py* and add these new routes by adding the next lines at the end of the file (check **bold**).

...

```
urlpatterns = [
    path('', HomePageView.as_view(), name='home'),
    path('about/', AboutPageView.as_view(), name='about'),
    path('products/', ProductIndexView.as_view(), name='index'),
    path('products/create', ProductCreateView.as_view(), name='form'),
    path('products/product-created', ProductCreateSuccessView.as_view(), name='product-created'),
    path('cart/', CartView.as_view(), name='cart_index'),
    path('cart/add/<str:product_id>', CartView.as_view(), name='cart_add'),
    path('cart/removeAll', CartRemoveAllView.as_view(), name='cart_removeAll'),
]
```

Run the application

Go to http://127.0.0.1:8000/cart add some products to the cart and remove them.

Note: complete the **Django Login tutorial** in **Chapter 10 of the Django 4 for The Impatient book**. It will be useful to understand some concepts in the next class. IF you do not have access to the book, please notify the professor.