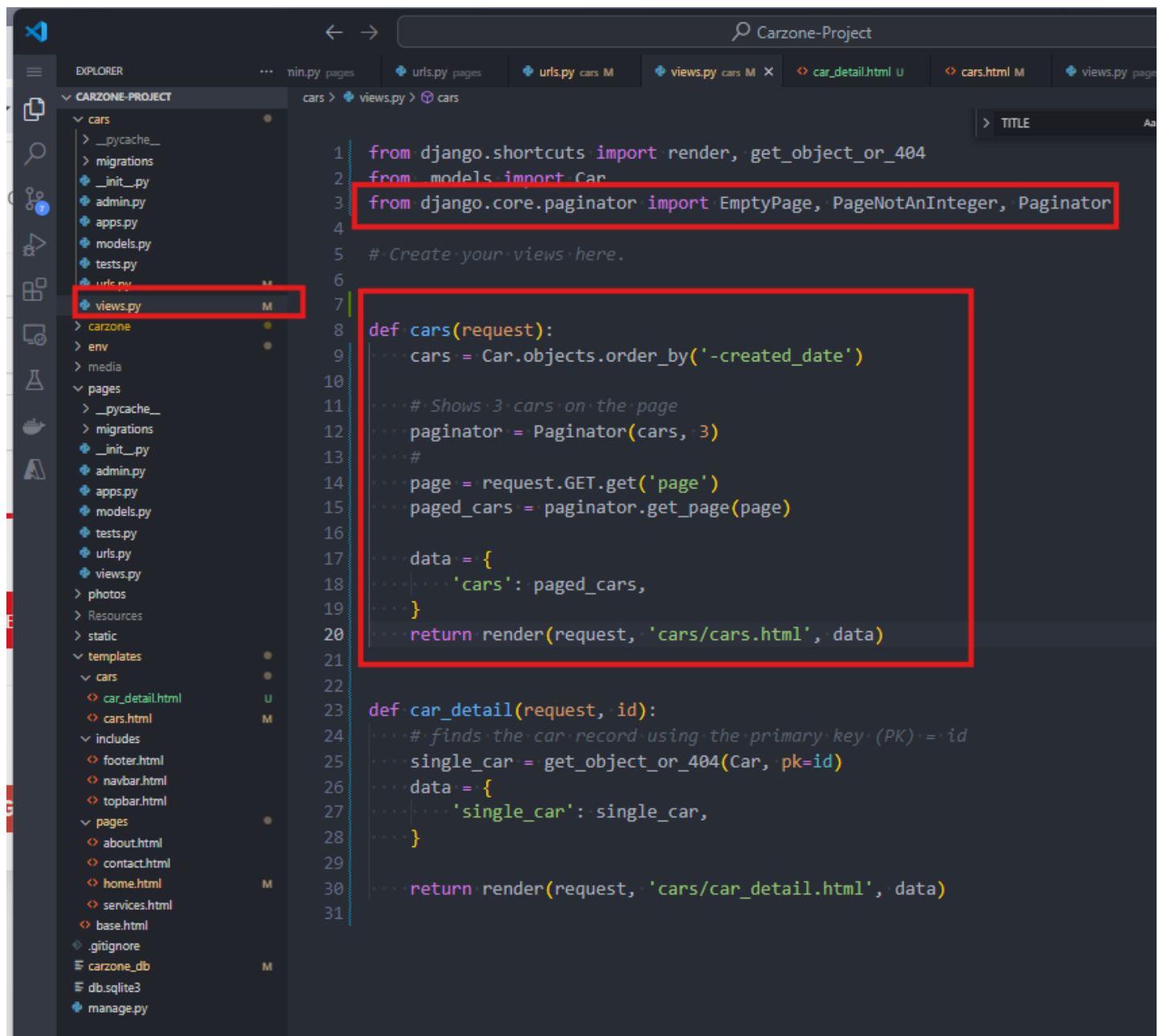


Topic: Car Listing: Pagination Part 8

Speaker: Udemy Instructor Rathan Kumar / Notebook: Django Project: Car Listing

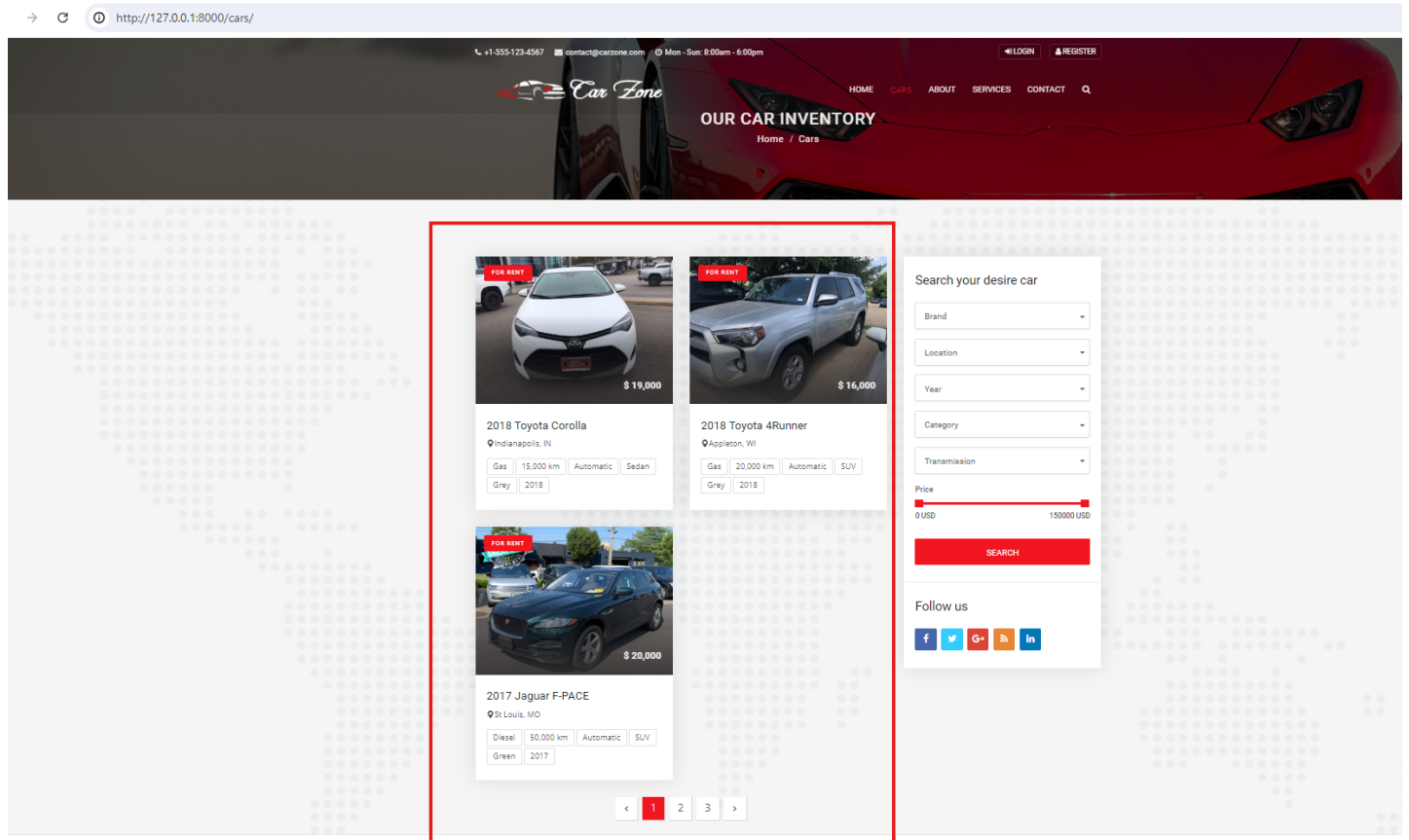


1. Use a Django package PAGINATOR to enable page activity.
2. Update the CARS/VIEWS.PY

A screenshot of a code editor showing Django code for pagination in views.py. The Explorer on the left shows the project structure with 'views.py' highlighted. The main editor shows the code for the 'cars' view, which uses Django's Paginator class to display a list of cars. The code is as follows:

```
1 from django.shortcuts import render, get_object_or_404
2 from models import Car
3 from django.core.paginator import EmptyPage, PageNotAnInteger, Paginator
4
5 # Create your views here.
6
7
8 def cars(request):
9     cars = Car.objects.order_by('-created_date')
10
11     # Shows 3 cars on the page
12     paginator = Paginator(cars, 3)
13     #
14     page = request.GET.get('page')
15     paged_cars = paginator.get_page(page)
16
17     data = {
18         'cars': paged_cars,
19     }
20     return render(request, 'cars/cars.html', data)
21
22
23 def car_detail(request, id):
24     # finds the car record using the primary key (PK) = id
25     single_car = get_object_or_404(Car, pk=id)
26     data = {
27         'single_car': single_car,
28     }
29
30     return render(request, 'cars/car_detail.html', data)
31
```

3. Run your CARS.HTML



4. To activate the PAGE BUTTONS, go to CARS.HTML,

FROM:

```
...<!-- Page navigation start -->
...<div class="pagination-box p-box-2 text-center">
...<nav aria-label="Page navigation example">
...<ul class="pagination">
...<li class="page-item">
...<a class="page-link" href="#"><i class="fa fa-angle-left"></i></a>
...</li>
...<li class="page-item"><a class="page-link active" href="#">1</a></li>
...<li class="page-item"><a class="page-link" href="#">2</a></li>
...<li class="page-item"><a class="page-link" href="#">3</a></li>
...<li class="page-item">
...<a class="page-link" href="#"><i class="fa fa-angle-right"></i></a>
...</li>
...</ul>
...</nav>
...</div>
```

TO:

Checks if there is a previous page:

```
{% if cars.has_previous %}
<li class="page-item">
    <a class="page-link" href="?page={{ cars.previous_page_number }}"><i
    class="fa fa-angle-left"></i></a>
</li>
{% else %}
<li class="page-item disabled">
    <a class="page-link"><i class="fa fa-angle-left"></i></a>
</li>
{% endif %}
```

Depending on how car items per page is displayed, it can show several page numbers, the loop below will do this:

```
<!-- Loops thru multiple page numbers -->
{% for i in cars.paginator.page_range %}
<!-- make the page number active if we are on it -->
{% if cars.number == i %}
<li class="page-item"><a class="page-link active" href="#">{{ i }}</a></li>
{% else %}
<li class="page-item"><a class="page-link" href="?page={{ i }}">{{ i }}</a></li>
{% endif %}
{% endfor %}
```

Checks if there is a next page:

```
<!-- checks if there is a next page -->
{% if cars.has_next %}
<li class="page-item">
    <a class="page-link" href="?page={{ cars.next_page_number }}"><i
    class="fa fa-angle-right"></i></a>
</li>
{% else %}
<li class="page-item disabled">
    <a class="page-link"><i class="fa fa-angle-right"></i></a>
</li>
{% endif %}
```

The entire pagination code block should be:

```
24 <div class="featured-car content-area">
25 <div class="container">
26 <div class="row">
27 <div class="col-lg-8 col-md-12">
103 <div class="pagination-box p-box-2 text-center">
105
106 <!-- checks if there is a previous page -->
107 {% if cars.has_other_pages %}
108 <ul class="pagination">
109 <li class="page-item">
110 <a class="page-link" href="?page={{cars.previous_page_number}}">i
111 class="fa fa-angle-left"</i></a>
112 </li>
113 {% else %}
114 <li class="page-item disabled">
115 <a class="page-link">i class="fa fa-angle-left"</i></a>
116 </li>
117 {% endif %}
118
119 <!-- Loops thru multiple page numbers -->
120 {% for i in cars.paginator.page_range %}
121 <!-- make the page number active if we are on it -->
122 {% if cars.number == i %}
123 <li class="page-item"><a class="page-link active" href="#">{{ i }}</a></li>
124 {% else %}
125 <li class="page-item"><a class="page-link" href="?page={{i}}">{{ i }}</a></li>
126 {% endif %}
127 {% endfor %}
128
129 <!-- checks if there is a next page -->
130 {% if cars.has_next %}
131 <li class="page-item">
132 <a class="page-link" href="?page={{cars.next_page_number}}">i
133 class="fa fa-angle-right"</i></a>
134 </li>
135 {% else %}
136 <li class="page-item disabled">
137 <a class="page-link">i class="fa fa-angle-right"</i></a>
138 </li>
139 {% endif %}
140 </ul>
141
142 {% endif %}
143 </div>
144 </div>
```

5. Run the server.

http://127.0.0.1:8000/cars/?page=2


+1-555-123-4567contact@carzone.comMon - Sun: 8:00am - 6:00pm

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