

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

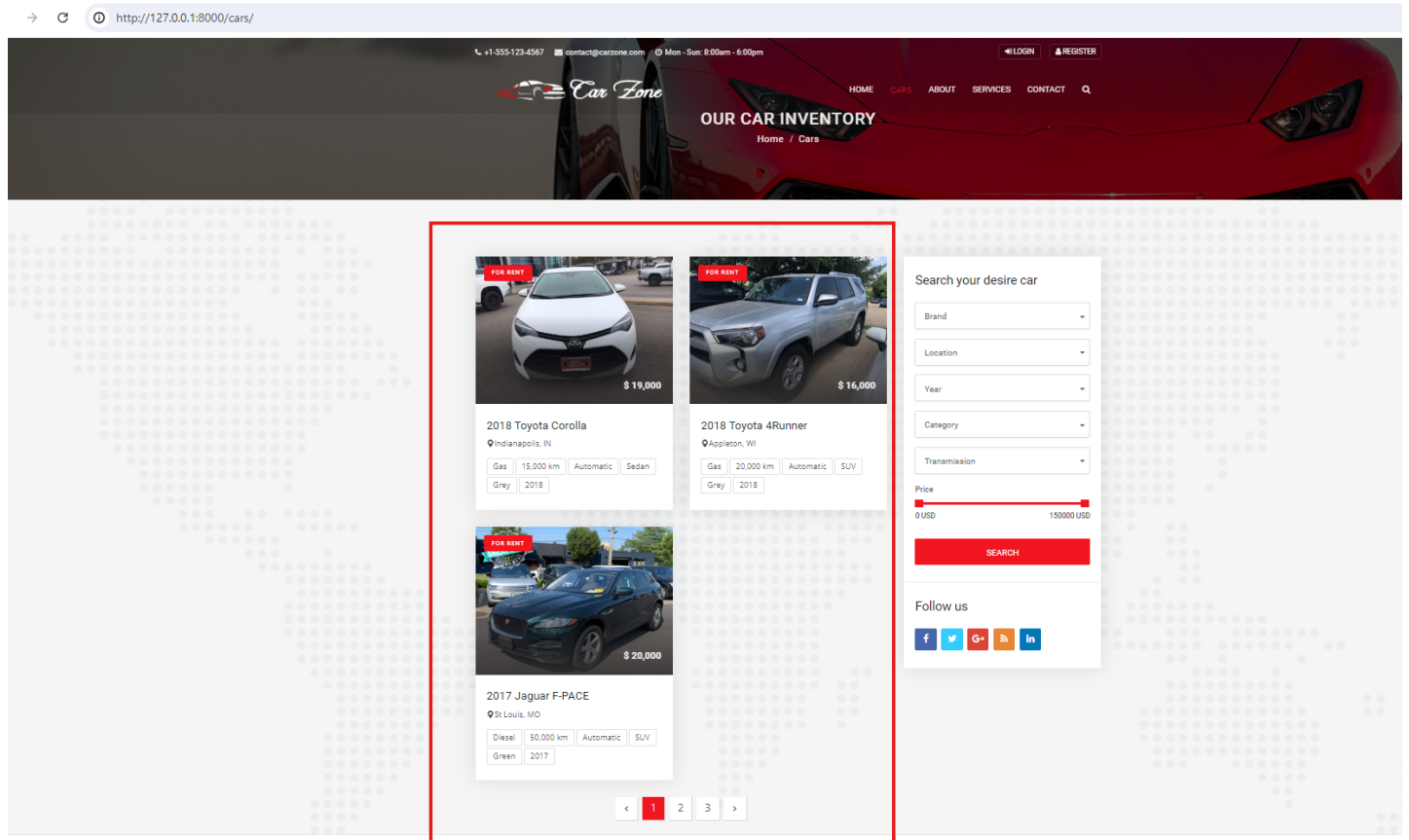
```
Carzone-Project

EXPLORER
CARZONE-PROJECT
  cars
    __pycache__
    migrations
    __init__.py
    admin.py
    apps.py
    models.py
    tests.py
    urls.py
    views.py
  carzone
  env
  media
  pages
    __pycache__
    migrations
    __init__.py
    admin.py
    apps.py
    models.py
    tests.py
    urls.py
    views.py
  photos
  Resources
  static
  templates
    cars
      car_detail.html
      cars.html
    includes
      footer.html
      navbar.html
      topbar.html
    pages
      about.html
      contact.html
      home.html
      services.html
      base.html
  .gitignore
  carzone_db
  db.sqlite3
  manage.py

cars > views.py > cars

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:

```
templates > cars > cars.html > div.featured-car-content-area > div.container > div.row > div.col-lg-8.col-md-12 > div.pagination-box.p-box-2.text-center > nav
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 <{% endif %>
142
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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