## **Topic: Car Listing: Search Functionality Part 9**

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



1. Create a SEARCH functionality. Go to CARS\URLS.PY and create a new path.

2. Create a new function in the CARS\VIEWS.PY

```
EXPLORER
                                          urls.py pages
                                                         urls.py cars M
                                                                                                        car detail.h

∨ CARZONE-PROJECT

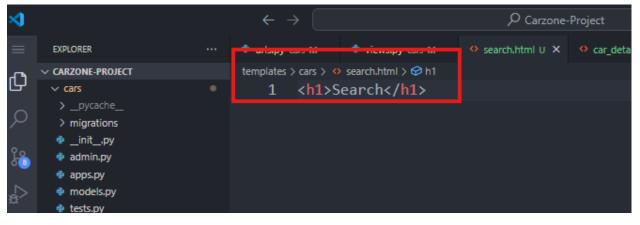
凸
     cars
                                                                                                        Aa <u>ab</u> * No
      > migrations
                                       def cars(request):
      __init__.py
                                            cars = Car.objects.order_by('-created_date')
      admin.py
      apps.py
      models.py
      tests.py
                                            paginator = Paginator(cars, 2)
      urls.py
      views.py
                                            page = request.GET.get('page')
> env
                                            paged_cars = paginator.get_page(page)

√ pages

                                            data = {
      > __pycache_
                                                 'cars': paged_cars,
      > migrations
      admin.py
      apps.py
      models.py
      tests.py
      urls.py
      views.py
      > photos
                                            single_car = get_object_or_404(Car, pk=id)
                                            data = {
      > static
                                                 'single car': single car,
      templates
       car_detail.html
                                            return render(request, 'cars/car_detail.html', data)
       o footer.html
                                       def search(request):
       o navbar.html
                                            return render(request, 'cars/search.html')

    topbar.html
```

3. Create a new HTML file, TEMPLATES\CARS\SEARCH.HTML and create a simple code



4. Test it. In the the browser, type 127.0.0.1:8000\CARS\SEARCH



## Search

5. Update the HOME.HTML to create a link to SEARCH.HTL

FROM:

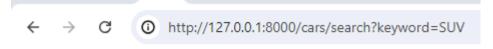
```
<
```

TO:

```
<!---Full-Page-Search--->
<div id="full-page-search">
</div-id="full-page-search">
</div-id="full-page-search">

<pr
```

So, when you search for something like 'SUV,' the search result will be like this with KEYWORD = 'SUV'



## Search

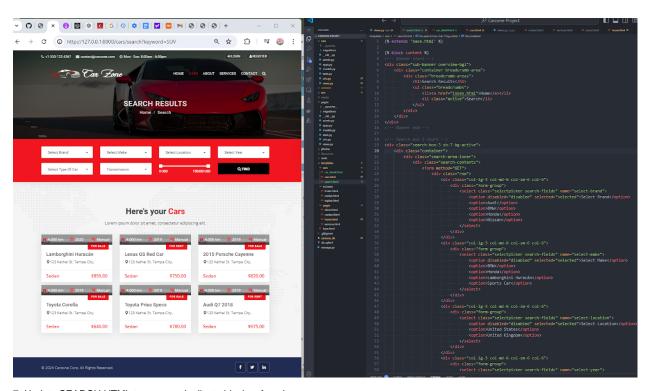
6. Add the Django tags and Copy the code of SEARCH.HTML from the RESOURCE folder.

{% extends 'base.html' %}

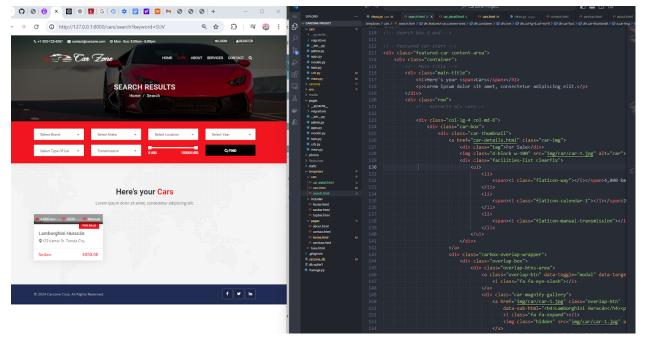
{% block content %}

<we add our OWN code here?

{% endblock %}



7. Update SEARCH.HTML to remove duplicate blocks of car items.

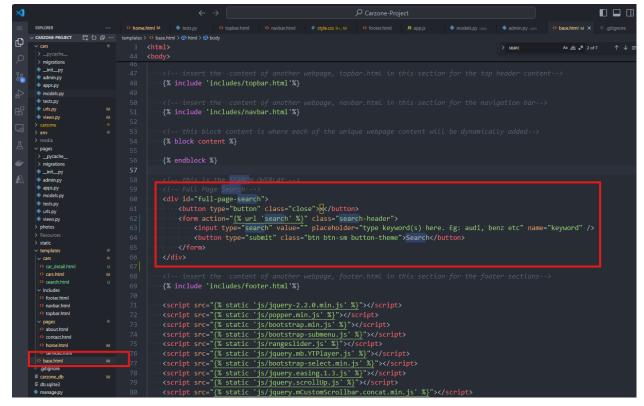


8. Update the VIEWS.PY

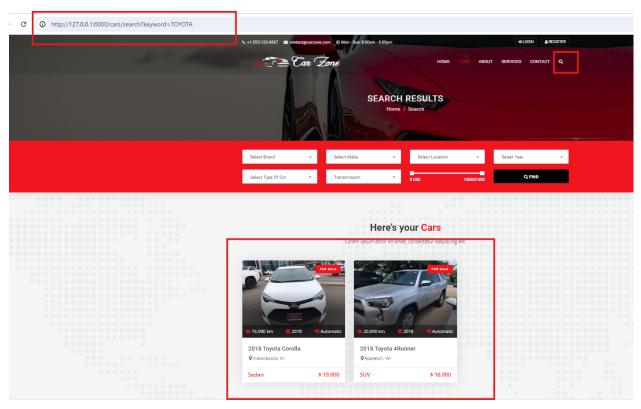
```
def search(request):
    cars = Car.objects.order_by('-created_date')
    data = {
    cors': cars,
    }
    return render(request, 'cars/search.html',data)
```

- 9. Update the SEARCH.HTML with the Django tags to call all dynamic data. This is similar to displaying your LATEST CARS (CARS.HTML)
- 10. Now, make the filter or search functionality work Update the VIEWS.PY as. This searches the cars using the DESCRIPTION FIELD if it contains what was being searched.

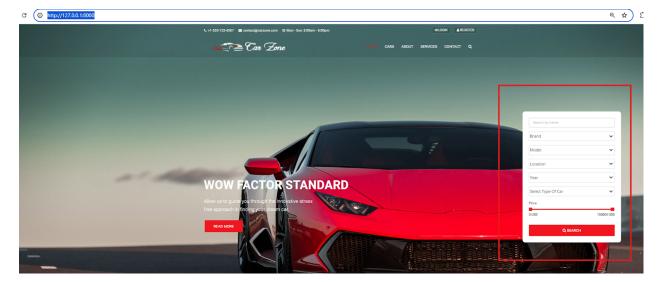
11. To make SEARCH FUNCTIONALITY work in every webpage, we move our SEARCH HTML CODE AND add this in the BASE.HTML



12. Run the server and search for a word like 'TOYOTA'



13. Add a SEARCH FUNCTIONALITY USING THE SEARCH FORM.



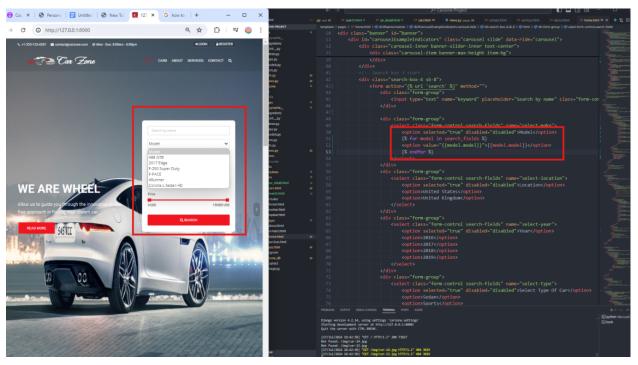
From the HOME.HTML, we remove this BRAND block

14. We need to search based on the existing MODEL, YEAR, LOCATION, Go to PAGES\VIEWS.PY and update HOME FUNCTION.

15. To display dynamic and current values for searching, update the HOME.HTML

FROM:

TO:



 $16. \ To \ remove \ the \ duplicates \ in \ the \ search \ drop \ - \ down \ box, \ modify \ the \ PAGES \ VIEWS. PY \ home \ function,$ 

## FROM:

```
#*extracts*the values*of these fields for searching
search_fields*=*Car.objects.values('model', 'city', 'year', 'body_style')
```

TO:

```
def home(request):
   teams = Team.objects.all()
   featured cars = Car.objects.order by(
        '-created_date').filter(is_featured=True)
   all_cars = Car.objects.order_by('-created_date')
   model search = Car.objects.values list('model', flat=True).distinct()
   city_search = Car.objects.values_list('city', flat=True).distinct()
   year search = Car.objects.values list('year', flat=True).distinct()
   body_style_search = Car.objects.values_list(
        'body_style', flat=True).distinct()
   data = {
        'teams': teams,
        'featured cars': featured cars,
        'all_cars': all_cars,
        'model search': model search,
        'city_search': city_search,
        'year_search': year_search,
        'body style search': body style search,
    return render(request, 'pages/home.html', data)
```

17. We make a LIST out of CARS query on extracting only UNIQUE VALUES OF MODEL, CITY, YEAR, BODY STYLE. We modify our HOME.HTML as:

```
<div class="form-group">
    <select class="form-control search-fields" name="select-make">
        <option selected="true" disabled="disabled">Model</option>
        {% for model in model_search %}
        <option value="{{model}}">{{model}}</option>
        (W CHUICH W)
    </select>
</div>
<div class="form-group">
    <select class="form-control search-fields" name="select-location">
       <option selected="true" disabled="disabled">Location</option>
      {% for city in city search %}
       <option value="{{city}}">{{city}}</option>
      {% endfor %}
    </select>
</div>
<div class="form-group">
    <select class="form-control search-fields" name="select-year">
        <option selected="true" disabled="disabled">Year</option>
       {% for year in year search %}
        <option value="{{year}}">{{year}}</option>
    </select>
</div>
<div class="form-group">
    <select class="form-control search-fields" name="select-type">
       <option selected="true" disabled="disabled">Select Type Of Car</option>
      {% for type_of_car in body_style_search %}
       <option value="{{type_of_car}}">{{type_of_car}}</option>
      {% endfor %}
    </select>
```

Copyright © Personal Digital Notebooks | By Rosilie | Date Printed: April 20, 2025, 6:14 p.m.