Topic: Car Listing: Search Functionality Part 10

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



1. To allow searching based on other fields like MODEL, YEAR, CITY, or BODY_STYLE, update the SEARCH function in CARS\VIEWS.PY

FROM:

```
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                                                                                            Carzone-Project
                              o cars.html M
     EXPLORER

√ CARZONE-PROJECT

Ф
                                     def search(request):
      > migrations
                                          cars = Car.objects.order_by('-created_date')
      __init__py
¥
      admin.py
                                          if 'keyword' in request.GET:
      apps.py
                                              keyword = request.GET['keyword']
     tests.py
       urs.py
      views.py
                                              if keyword:
                                                  cars = cars.filter(description__icontains=keyword)
      > pycache_
                                          if 'model' in request.GET:
      > migrations
      🌳 _init_py
                                              model = request.GET['model']
      admin.py
      арря.ру
      models.py
                                              if model:
      tests.py
      urls.py
      views.py
                                                  cars = cars.filter(model__iexact=model)
     > photos
                                          if 'city' in request.GET:
     > static
                                              city = request.GET['city']
                                              if city:
      o cars.html
                                                  cars = cars.filter(city__iexact=city)

✓ includes

                                          if 'year' in request.GET:
       o footer.html
      navbar.html
                                              year = request.GET['year']
      topbar.html
                                              if year:
      about.html
                                                  cars = cars.filter(year__iexact=year)
      contact.html

    home.html

    services.html

                                          if 'body style' in request.GET:
      O base.html
                                              body_style = request.GET['body_style']
     gitignore .
     = carzone_db
                                              if body_style:

    db.solite3

     manage.py
                                                  cars = cars.filter(body_style__iexact=body_style)
                                          data = {
                                              'cars': cars,
                                          return render(request, 'cars/search.html', data)
```

2. We change the name of our SELECT attributes

FROM:

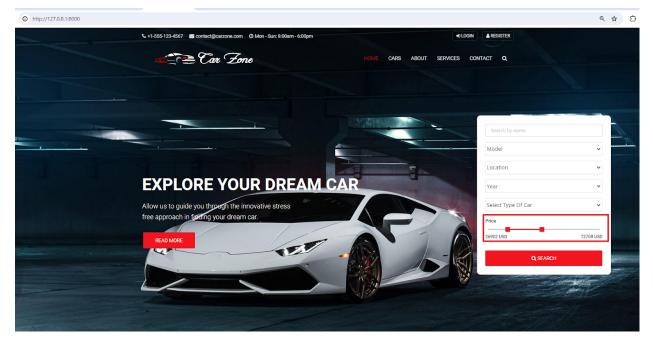
```
<div class="form-group">
    <select class="form-control search-fields" name="select-make"</pre>
        <option selected="true" disabled="disabled">Model</option>
        {% for model in model search %}
        <option value="{{model}}">{{model}}</option>
        {% endfor %}
    </select>
</div>
<div class="form-group">
    <select class="form-control search-fields" name="select-location"</pre>
        <option selected="true" disabled="disabled">Location</option>
        {% for city in city search %}
        <option value="{{city}}">{{city}}</option>
        {% endfor %}
    </select>
</div>
```

TO:

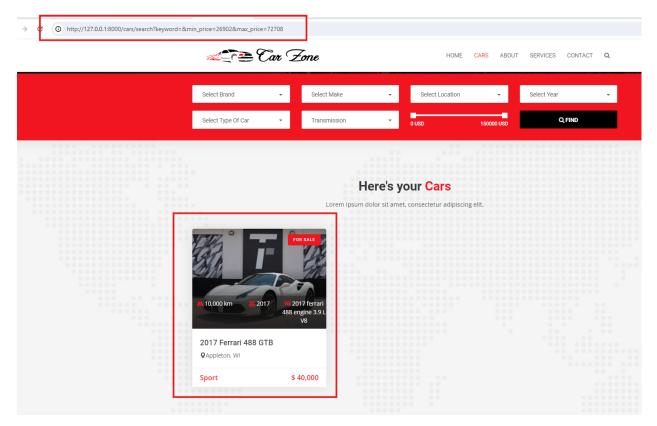
3. For the PRICE SLIDER. We use GTE (FOR GREATER THAN OR EQUAL) and LTE (FOR LESS THAN EQUAL)

Run the server again to search using the price slider:

^{*} take note of the double underscore before the use of LTE or GTE (__gte or __lte)

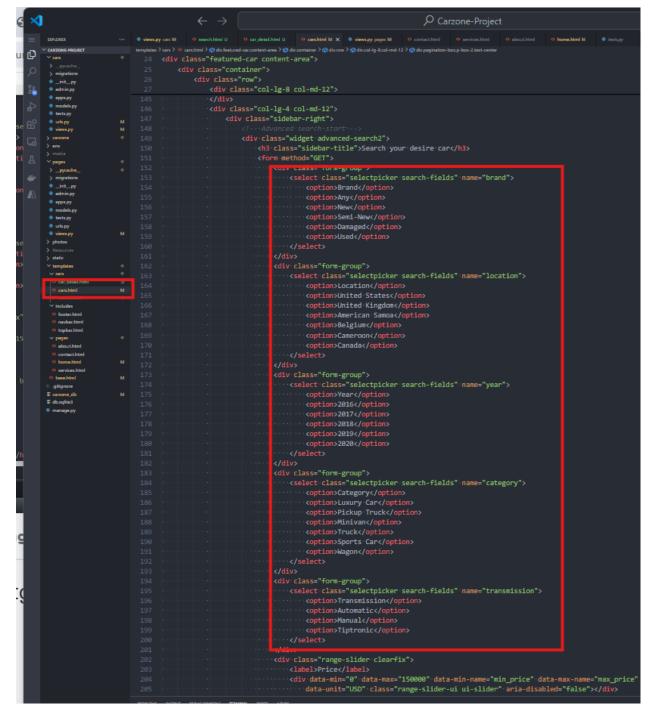


Result should be:



4. We do the same for the SEARCH functionality on the CARS web page. We copy the code from HOME.HTML search functionality into CARS.HTML.

We replace this block with the search block from the HOME.HTML



New code:

```
Ð
                                                                                                                                                                                                                                                               <div class="row">
                                                                                                                                                                                                                                                                                                 <div class="col-lg-4 col-md-12">
                                                                                                                                                                                                                                                                                                                                                             > enruis
> endis
> endis
> majoritime
- init...py
- definit, py
- viens, py

« <form «action="{% url · 'search' ·%}" · method="">

                                                                                                                                                                                                                                                                                                                                                                                                                                           ·<div·class="form-group">
····<input type="text"·name="keyword"·placeholder="Search·by·name"·class="form-contr

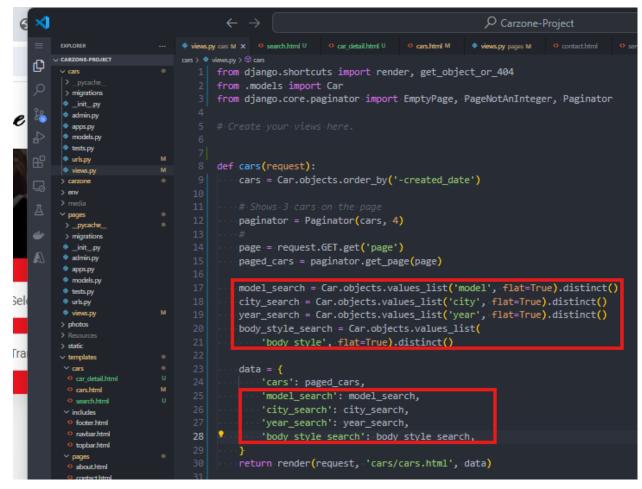
«<option value="{{model}}">{{model}}</option>
«{% endfor %}
                                                                                                                                                                                                                                                                                                                                                                                                                                    </ali>
</al>

<ali>color of the property of the prope

<
                                                                                                                                                                                                                                                                                                                                                                                                                                            <div class="form-group">
<idiv class="form-group">
<idiv class="btn-btn-block-button-theme btn-md">

<p
```

5. Update the CARS\VIEWS.PY by copying the search code we did on our home page.



We copy what we did from the PAGES\VIEWS.PY for HOME.HTML search function.

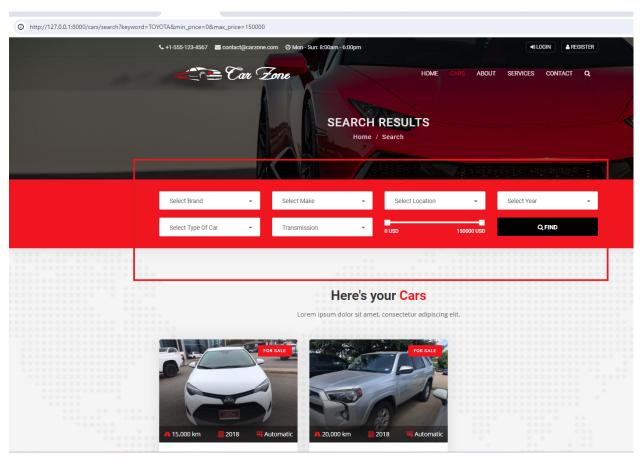
from PAGES\VIEWS.PY

```
EXPLORER
                          views.py cars M
                                         CARZONE-PROJECT

∨ cars

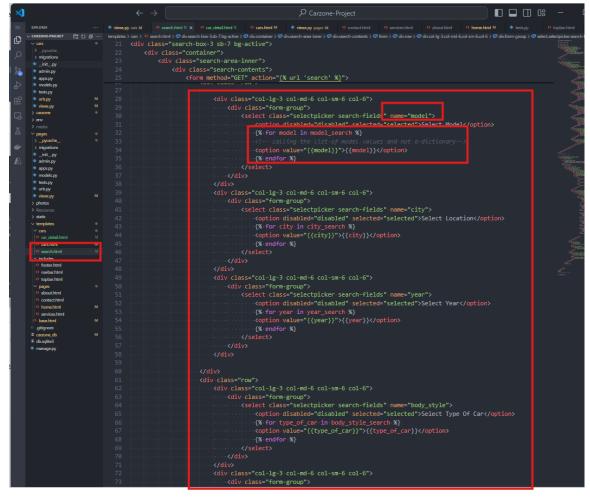
                                from django.shortcuts import render
                                from .. models import Team
 > migrations
                                from cars.models import Car
 init py
 admin.py
 арря.ру
 tests.py
                                def home(request):
                                     teams = Team.objects.all()
 > env
                                     featured_cars = Car.objects.order_by(
                                       ··'-created_date').filter(is_featured=True)
                                     all_cars = Car.objects.order_by('-created_date')
  > migrations
   _init_py
 apps.py
                                     model_search = Car.objects.values_list('model', flat=True).distinct()
  tests.py
                                     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()
 > static
  ✓ cars
                                         'teams': teams,
                                          'featured_cars': featured_cars,
  cars.html
                                       ···'all_cars': all_cars,
                                            'search fields'
  includes
                                          'model_search': model_search,
                                          'city_search': city_search,
                                         'body_style_search': body_style_search,
    about html
   contact.html
    home.html
    services.html
                                     return render(request, 'pages/home.html', data)
   base.html
```

6. We complete the TOP SEARCH functionality



```
<div class="col-lg-3 col-md-6 col-sm-6 col-6">
   <div class="form-group">
       <select class="selectpicker search-fields" name="select-make"</pre>
            <option disabled="disabled" selected="selected">Select Make</option>
            <option>BMW</option>
            <option>Honda</option>
            <option>Lamborghini Huracán</option>
            <option>Sports Car</option>
        </select>
   </div>
</div>
<div class="col-lg-3 col-md-6 col-sm-6 col-6">
   <div class="form-group">
       <select class="selectpicker search-fields" name="select-location">
            <option disabled="disabled" selected="selected">Select Location</option>
            <option>United States
            <option>United Kingdom</option>
        </select>
    </div>
</div>
<div class="col-lg-3 col-md-6 col-sm-6 col-6">
   <div class="form-group">
       <select class="selectpicker search-fields" name="select-year">
            <option disabled="disabled" selected="selected">Select Year</option>
            <option>2016</option>
            <option>2017</option>
            <option>2018</option>
            <option>2019</option>
       </select>
   </div>
</div>
```

TO:



7. We update the SEARCH function in the CARS\VIEWS.PY

```
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                            EXPLORER

√ CARZONE-PROJECT

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                                  def search(request):
                                      cars = Car.objects.order_by('-created_date')
     > migrations
     _init_py
                                       model_search = Car.objects.values_list('model', flat=True).distinct()
     admin.py
                                      city_search = Car.objects.values_list('city', flat=True).distinct()
     арря.ру
                                      year_search = Car.objects.values_list('year', flat=True).distinct()
     tests.py
                                      body_style_search = Car.objects.values_list(
                                           'body_style', flat=True).distinct()
     views.py
                                       transmission_search = Car.objects.values_list(
                                           'transmission', flat=True).distinct()
                                      if 'keyword' in request.GET:
     > _pycache_
                                           keyword = request.GET['keyword']
     > migrations
     🌳 _init_py
     admir.py
     • аррягру
                                           if keyword:
     models.py
     tests.py
     urls.py
                                               cars = cars.filter(description__icontains=keyword)
     views.py
                                       if 'model' in request.GET:
                                           model = request.GET['model']

    templates

                                           if model:
                                               cars = cars.filter(model__iexact=model)

    footer.html

      navbar.html
                                      if 'transmission' in request.GET:

    topbar.html

                                           transmission = request.GET['transmission']

    about.html

      contact.html
                                           if transmission:
                                               cars = cars.filter(transmission_iexact=transmission)

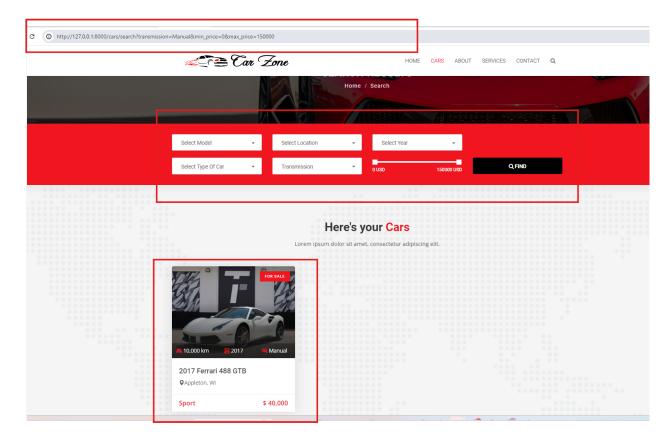
 base.html

      .gitignore
                                           city = request.GET['city']

■ db.solite3

    manage.py
                                           if city:
                                               cars = cars.filter(city_iexact=city)
                                       if 'year' in request.GET:
                                           year = request.GET['year']
                                           if year:
                                               cars = cars.filter(year__iexact=year)
                                       if 'body_style' in request.GET:
                                           body_style = request.GET['body_style']
                              90
                                           if body_style:
                                               cars = cars.filter(body_style__iexact=body_style)
                                       if 'min_price' in request.GET:
```

8. Run the server.



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