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```
1 from django.shortcuts import get_object_or_404, render
 2 # import the 404 as well
 3 from django.core.paginator import EmptyPage, PageNotAnInteger, Paginator
 4 # choices at the same folder
 5 from .choices import price choices, state choices, bedroom choices
 6 # load database into view
 7 from .models import Listing
9
10 def index(request):
       listings = Listing.objects.order_by('-
   list_date').filter(is_published=True)
       paginator = Paginator(listings, 3)
12
13
       page = request.GET.get('page')
14
       paged listings = paginator.get page(page)
15
       context = {
           'listings': paged_listings
16
17
18
       return render(request, 'listings/listings.html', context)
19
20 # add additional parameter listing_id route
21
22
23 def listing(request, listing_id):
24
       # get an id or return 404
25
       listing = get_object_or_404(Listing, pk=listing_id)
26
       context = {
           'listing': listing
27
28
       return render(request, 'listings/listing.html', context)
29
30
31
32 def search(request):
33
       queryset list = Listing.objects.order by('-list date')
       # keywords search, step 1 make sure no empty strings
34
       # step 2 then look up the keywords
35
36
       if 'keywords' in request.GET:
           keywords = request.GET['keywords']
37
38
           if keywords:
39
               queryset_list = queryset_list.filter(
                   desciption icontains=keywords)
40
       # second search field City, need to be exact but case insensitive
41
42
       if 'city' in request.GET:
43
           city = request.GET['city']
44
           if city:
45
               queryset_list = queryset_list.filter(
                   city__iexact=city)
46
       # add state search
47
48
       if 'state' in request.GET:
49
           state = request.GET['state']
50
51
               queryset_list = queryset_list.filter(
52
                   city__iexact=state)
       # search bedrooms with less than option
53
54
       if 'bedrooms' in request.GET:
55
           bedrooms = request.GET['bedrooms']
56
           if bedrooms:
57
               queryset_list = queryset_list.filter(
58
                   bedrooms lte=bedrooms)
```

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```
59
       # search price less than
       if 'price' in request.GET:
60
           price = request.GET['price']
61
62
           if price:
63
                queryset_list = queryset_list.filter(
                    price__lte=price)
64
       # keep request object values
65
       context = {
66
            'state_choices': state_choices,
67
            'price_choices': price_choices,
68
           "bedroom_choices": bedroom_choices,
69
           'listings': queryset_list,
'values': request.GET
70
71
72
       }
       return render(request, 'listings/search.html', context)
73
74
```

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