```python
from django.shortcuts import render
from django.core.paginator import EmptyPage, PageNotAnInteger, Paginator
# load database into view
from .models import Listing


def index(request):
    # get all data from database
    # listings = Listing.objects.all()
    # or listing by list_date and filter out by check mark
    listings = Listing.objects.order_by('-list_date').filter(is_published=True)
    # adding pagination function
    # control no. of listing per page
    paginator = Paginator(listings, 3)
    page = request.GET.get('page')
    paged_listings = paginator.get_page(page)

    # listings pass through paginator to format, then use paged_listings as value
    context = {
        'listings': paged_listings
    }
    return render(request, 'listings/listings.html', context)

# add additional parameter listing_id route


def listing(request, listing_id):
    return render(request, 'listings/listing.html')


def search(request):
    return render(request, 'listings/search.html')
```