Pagination

Example social media

Views.py

```python
from django.core.paginator import EmptyPage, PageNotAnInteger, Paginator

def post_list(request):

    query=request.GET.get('q')

    if query:
        data=Post.objects.filter(
            Q(title__icontains=query)|
            Q(author__username=query)|
            Q(body__icontains=query)

        )
    else:

        data = Post.published.all()

    paginator = Paginator(data, 5)  # Show 5 contacts per page
    page = request.GET.get('page')

    try:
        posts = paginator.page(page)
    except PageNotAnInteger:
        posts = paginator.page(1)
    except EmptyPage:
        posts = paginator.page(paginator.num_pages)

    # now if there are lot of posts which result in like 200 pages.Then rather than showing pages like 1.2.3.4...200 you can limit this line 1.2.3..10
    # and when some one click on page like 7 then list will be like 3.4.5.6.7.8...13

    if page is None:
        start_index=0
        end_index=7
    else:
        (start_index,end_index) = proper_pagination(posts,index=4)

    page_range = list(paginator.page_range)[start_index:end_index]


    context={
        'post' : posts,
        'query'    : query,
        'page_range':page_range
    }
```

```python
    return render(request,'blog/post_list.html',context)

def proper_pagination(posts,index):
    start_index=0
    end_index=7

    if posts.number > index:
        start_index=posts.number - index
        end_index = start_index - end_index

    return (start_index, end_index)
```

post_list.html

```html
<nav aria-label="Page navigation example">
    <ul class="pagination">

        {% if post.has_previous %}
            <li class="page-item">
            <a class="page-link" href="?page={{ post.previous_page_number}}" aria-
label="Previous">
                <span aria-hidden="true">&laquo;</span>
                <span class="sr-only">Previous</span>
            </a>
            </li>
        {% endif %}



        {% for p in page_range %}

            {% if post.number == p %}
                <li class="page-item active"><a class="page-link" href="?page={{ p }}">{{ p }}</a></
li>
            {% else %}
                <li class="page-item"><a class="page-link" href="?page={{ p }}">{{ p }}</a></li>
            {% endif %}

        {% endfor %}


        {% if post.has_next %}
            <li class="page-item">
            <a class="page-link" href="?page={{ post.next_page_number}}" aria-
label="Previous">
                <span aria-hidden="true">&raquo;</span>
                <span class="sr-only">Next</span>
            </a>
            </li>
        {% endif %}


    </ul>
</nav>
```