

# 190515 - CRUD

## 1. Create

[index.html]

```
{% extends 'boards/base.html' %}

{% block body %}
    <h1 class='text-center'>hello? this is boards's index.</h1>
    <hr>

    <a href="/boards/new/">[게시글 작성]</a> # 클릭 -> new.html로 이동
{% endblock %}
```

## GET 요청

[new.html]

```
{% extends 'boards/base.html' %}

{% block body %}
    <h1 class='text-center'>this is new.html. it is to create board.</h1>
    <form action="/boards/create"> # action : 날려줄 filepath. method: 호출할 http method.
        <label for="title">Title</label>
        <input type="text" name="title"/> # name : 날려주는 data의 name(key).

        <label for="content">Content</label>
        <textarea name="content" id="content" cols="30" rows="10"></textarea>

        <input type="submit" value="Submit"/> # 클릭 -> create.html로 이동
    </form>
{% endblock %}
```

[views.py]

```
def create(request):
    # request : QueryDict 형태.
    # GET 쿼리 가져옴
    title = request.GET.get('title')
    content = request.GET.get('content')

    # db 조작 (by. Model)
    board = Board(title=title, content=content)
    board.save()

    return render(request, 'boards/create.html')
```

## Post 요청

[new.html]

```
{% extends 'boards/base.html' %}

{% block body %}
    <h1 class='text-center'>this is new.html. it is to create board.</h1>
    <form action="/boards/create" method="POST"> # method : POST
        {% csrf_token %} # 반드시 설정해야함. hidden으로 보내짐.
        <label for="title">Title</label>
        <input type="text" name="title"/><br>

        <label for="content">Content</label>
        <textarea name="content" id="content" cols="30" rows="10"></textarea><br>

        <input type="submit" value="Submit"/>
    </form>
{% endblock %}
```

[views.py]

```
def create(request):
    # request : QueryDict 형태.
    # GET 쿼리 가져옴
    # title = request.GET.get('title')
    # content = request.GET.get('content')

    # POST body 가져옴
    title = request.POST.get('title')
    content = request.POST.get('content')

    # db 조작 (by. Model)
    board = Board(title=title, content=content)
    board.save()

    # return render(request, 'boards/create.html')
    return redirect('/boards/') # redirect
```

## 2. Read

[views.py]

```
def index(request):
    boards = Board.objects.all()
    return render(request, 'boards/index.html', {'boards' : boards})
```

[index.html]

```
...
<p>
    {% for board in boards %}
        <li>글 번호 : {{ board.pk }}</li>
        <li>글 제목 : {{ board.title }}</li>
        <li>글 내용 : {{ board.content }}</li>
        <hr>
    {% endfor %}
</p>
...
```

## 가져온 데이터 정렬

```
boards = Board.objects.order_by('-id') # id로 내림차순 정렬
boards = Board.objects.all()[::-1] # 오름차순 정렬
```

## 상세페이지 생성

[views.py]

```
def detail(request, pk):
    board = Board.objects.get(pk = pk)

    return render(request, 'boards/detail.html', {'board' : board})

def create(request):
    ...
    return redirect(f'/boards/{board.pk}') # redirect -> 상세페이지.
    # 주의 : 장고는 {{ var }}, 파이썬은 { var }
```

[detail.html]

```
{% extends 'boards/base.html' %}

{% block body %}
    <h1>This page is detailed board.</h1>
    <br>
    <h2>[{{ board.pk }}번 글]</h2>
    <p>제목 : {{ board.title }}</p>
    <p>작성시각 : {{ board.created_at }}</p>
    <p>마지막 수정 시각 : {{ board.updated_at }}</p>
    <p>내용 : {{ board.content }}</p>
    <a href="/boards/">[게시판으로 돌아가기]</a>

{% endblock %}
```

[index.html]

```
<p>
    {% for board in boards %}
        <li>글 제목 : {{ board.title }}</li>
        <li>글 내용 : {{ board.content }}</li>
        <li>글 작성시각 : {{ board.created_at }}</li>
        <li>글 수정시각 : {{ board.updated_at }}</li>
        <a href="/boards/{{ board.pk }}">[상세 글 보러가기]</a> # 변수 pk를 활용하여 url 연결
    <hr>
    {% endfor %}
</p>
```

## 3. Delete

[views.py]

```
def delete(request, pk):
    board = Board.objects.get(pk = pk)
    board.delete()
    return redirect('/boards/')

```

## 4. Update

[views.py]

```
# new와의 차이: 애는 있던 걸 가져와서 사용.
def edit(request, pk):
    board = Board.objects.get(pk = pk)
    return render(request, 'boards/edit.html', {'board' : board})
```

[edit.html]

```
{% extends 'boards/base.html' %}

{% block body %}
    <h1 class='text-center'>this is edit.html. it is to update board.</h1>
    <form action="/boards/{{ board.pk }}/update/" method="POST"> ## url 변경
        {% csrf_token %}
        <label for="title">Title</label>
        <input type="text" name="title" value="{{ board.title }}" /><br> # value

        <label for="content">Content</label>
        <textarea name="content" id="content" cols="30" rows="10">{{ board.content }}
    </textarea><br>

        <input type="submit" value="Submit" />
    </form>
{% endblock %}
```

[views.py]

```
def update(request, pk):
    board = Board.objects.get(pk = pk)
    title = request.POST.get('title')
    content = request.POST.get('content')

    board.title = title
    board.content = content
    board.save()

    return redirect(f'/boards/{ board.pk }')
```