

Create & Read

CRUD

CRUD는 대부분의 컴퓨터 소프트웨어가
가지는 기본적인 데이터 처리 기능인
Create(생성), Read(읽기), Update(갱신),
Delete(삭제)를 묶어서 일컫는 말

CRUD

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가지는 기본적인 데이터 처리 기능인
Create(생성), Read(읽기), Update(갱신),
Delete(삭제)를 묶어서 일컫는 말

```
views.py x (+)
from django.shortcuts import render
#from django.http import HttpResponse
from .models import Post

# Create your views here.

def index(request):
    posts = Post.objects.all().order_by('-created_at')
    context = {'posts' : posts}

    return render(request, 'posts/index.html', context)
```

```
index.html x (+)
1 {% load static %}
2 <!DOCTYPE html>
3 <html>
4     <head>
5         <title>GSM</title>
6     </head>
7     <body>
8         <h1>Posts</h1>
9         <!--<ul>
10             <li>나의 첫 Django project</li>-->
11         {% if posts %}
12             <ul>
13                 {% for post in posts %}
14                     <li>Author : {{ post.author }} | Body : {{ post.body }}</li>
15                 {% endfor %}
16             </ul>
17         {% else %}
18             <p>No Posts.</p>
19         {% endif %}
20     </body>
21 </html>
```

Posts

- Author : minil | Body : Hello I am minil
- Author : flower | Body : 안녕 나는 꽃이야
- Author : minyoung | Body : 나의 Django Project :D

```
1 from django.shortcuts import render
2 #from django.http import HttpResponse
3 from .models import Post
4
5 # Create your views here.
6
7
8 def index(request):
9     posts = Post.objects.all()
10    context = {'posts' : posts}
11
12    return render(request, 'posts/index.html', context)
```

```
1 {% load static %}
2 <!DOCTYPE html>
3 <html>
4     <head>
5         <title>GSM</title>
6     </head>
7     <body>
8         <h1>Posts</h1>
9         <!--<ul>
10             <li>나의 첫 Django project</li>-->
11         {% if posts %}
12             <table>
13                 <thead>
14                     <tr>
15                         <th>#</th>
16                         <th>작성자</th>
17                         <th>본문</th>
18                         <th>게시일</th>
19                         <th>상세</th>
20                     </tr>
21                 </thead>
22                 <tbody>
23                     {% for post in posts %}
24                         <tr>
25                             <th>{{ post.id }}</th>
26                             <td>{{ post.author }}</td>
27                             <td>{{ post.body }}</td>
28                             <td>{{ post.created_at }}</td>
29                             <td><a href="/posts/{{ post.id }}">보기</a></td>
30                         </tr>
31                     {% endfor %}
32                 </tbody>
33             </table>
34         {% else %}
35             <p>No Posts.</p>
36         {% endif %}
37     </body>
38 </html>
```


- **Prevalence**
- **Incidence**
- **Prevalence**

+

9:31 Python Spaces: 4 

Posts

#	작성자	본문	게시일	상세
1	minyoung	나의 Django Project :D	2020년 10월 12일 9:52 오전	보기
2	flower	안녕 나는 꽃이야	2020년 10월 12일 10:21 오전	보기
3	minil	Hello I am minil	2020년 10월 13일 10:48 오전	보기

urls.py

x



```
from django.urls import path
```

```
from . import views
```

```
app_name = 'posts'
urlpatterns = [
    path('', views.index, name="index"),
    path('<int:post_id>/', views.detail, name='detail'),
]
```

/posts/post_id

views.py

x



```
from django.shortcuts import render
#from django.http import HttpResponse
from .models import Post
```

```
# Create your views here.
```

```
def index(request):
    posts = Post.objects.all()
    context = {'posts' : posts}

    return render(request, 'posts/index.html', context)
```

```
def detail(request, post_id):
    post = Post.objects.get(id = post_id)
    context = {'post' : post }

    return render(request, 'posts/detail.html', context)
```



detail.html

x



```
1 {% load static %}
2
3 <!DOCTYPE html>
4 <html>
5 <head>
6     <title>GSM Board</title>
7     <link rel="stylesheet" href="{% static 'posts/style.css' %}" type="text/css" />
8 </head>
9 <body>
10     <h1>Post Detail</h1>
11     {% if post %}
12         <h2>작성자</h2>
13         <p>{{ post.author }}</p>
14
15         <h2>본 문</h2>
16         <p>{{ post.body }}</p>
17
18         <h2>게 시 일</h2>
19         <p>{{ post.created_at }}</p>
20     {% else %}
21         <p>No posts</p>
22     {% endif %}
23
24     <a href="/posts">목 록</a>
25 </body>
26 </html>
27
28
```



```
urls.py
from django.urls import path
from . import views

app_name = 'posts'
urlpatterns = [
    path('', views.index, name='index'),
    path('<int:post_id>/', views.detail, name='detail'),
]

11:1 Python Spaces: 4
```

```
views.py
from django.shortcuts import render
#from django.http import HttpResponse
from .models import Post

# Create your views here.

def index(request):
    posts = Post.objects.all()
    context = {'posts' : posts}

    return render(request, 'posts/index.html', context)

def detail(request, post_id):
    post = Post.objects.get(id = post_id)
    context = {'post' : post }

    return render(request, 'posts/detail.html', context)
```

```
detail.html
1 {% load static %}
2
3 <!DOCTYPE html>
4 <html>
5 <head>
6     <title>GSM Board</title>
7     <link rel="stylesheet" href="{% static 'posts/style.css' %}" type="text/css" />
8 </head>
9 <body>
10     <h1>Post Detail</h1>
11     {% if post %}
12         <h2>작성자</h2>
13         <p>{{ post.author }}</p>
14
15         <h2>본 문</h2>
16         <p>{{ post.body }}</p>
17
18         <h2>게 시 일</h2>
19         <p>{{ post.created_at }}</p>
20     {% else %}
21         <p>No posts</p>
22     {% endif %}
23
24     <a href="/posts">목록</a>
25 </body>
26 </html>
27
28
```

urls.py

x



```
1 from django.urls import path
2
3 from . import views
4
5 app_name = 'posts'
6 urlpatterns = [
7     path('', views.index, name="index"),
8     path('<int:post_id>/', views.detail, name='detail'),
9 ]
```

11:1 Python Spaces: 4

views.py

x



```
1 from django.shortcuts import render
2 #from django.http import HttpResponse
3 from .models import Post
4
5 # Create your views here.
6
7
8 def index(request):
9     posts = Post.objects.all()
10    context = {'posts' : posts}
11
12    return render(request, 'posts/index.html', context)
13
14
15 def detail(request, post_id):
16     post = Post.objects.get(id = post_id)
17     context = {'post' : post }
18
19     return render(request, 'posts/detail.html', context)
```



detail.html

x



```
1 {% load static %}
2
3 <!DOCTYPE html>
4 <html>
5 <head>
6     <title>GSM Board</title>
7     <link rel="stylesheet" href="{% static 'posts/style.css' %}" type="text/css" />
8 </head>
9 <body>
10    <h1>Post Detail</h1>
11    {% if post %}
12        <h2>작성자</h2>
13        <p>{{ post.author }}</p>
14
15        <h2>본 문</h2>
16        <p>{{ post.body }}</p>
17
18        <h2>게 시 일</h2>
19        <p>{{ post.created_at }}</p>
20    {% else %}
21        <p>No posts</p>
22    {% endif %}
23
24    <a href="/posts">목록</a>
25 </body>
26 </html>
27
28
```

Post Detail

작성자

minyoung

본 문

나의 Django Project :D

게 시 일

2020년 10월 12일 9:52 오전

[목 록](#)

urls.py

x



```
1 from django.urls import path
```

```
3 from . import views
```

```
5 app_name = 'posts'
```

```
urlpatterns = [
```

```
    path('', views.index, name="index"),
```

```
    path('<int:post_id>', views.detail, name='detail'),
```

```
]
```

11:1 Python Spaces: 4



views.py

x



```
1 from django.shortcuts import render
```

```
2 #from django.http import HttpResponse
```

```
3 from .models import Post
```

```
5 # Create your views here.
```

```
8 def index(request):
```

```
    posts = Post.objects.all()
```

```
    context = {'posts' : posts}
```

```
    return render(request, 'posts/index.html', context)
```

```
1 def detail(request, post_id):
```

```
    post = Post.objects.get(id = post_id)
```

```
    context = {'post' : post }
```

```
    return render(request, 'posts/detail.html', context)
```



detail.html

x



```
1 {% load static %}
```

```
2
```

```
3 <!DOCTYPE html>
```

```
4 <html>
```

```
5 <head>
```

```
6     <title>GSM Board</title>
```

```
7     <link rel="stylesheet" href="{% static 'posts/style.css' %}" type="text/css" />
```

```
8 </head>
```

```
9 <body>
```

```
10     <h1>Post Detail</h1>
```

```
11     {% if post %}
```

```
12         <h2>작성자</h2>
```

```
13         <p>{{ post.author }}</p>
```

```
14
```

```
15         <h2>본 문</h2>
```

```
16         <p>{{ post.body }}</p>
```

```
17
```

```
18         <h2>게 시 일</h2>
```

```
19         <p>{{ post.created_at }}</p>
```

```
20     {% else %}
```

```
21         <p>No posts</p>
```

```
22     {% endif %}
```

```
23
```

```
24     <a href="/posts">목록</a>
```

```
25 </body>
```

```
26 </html>
```

```
27
```

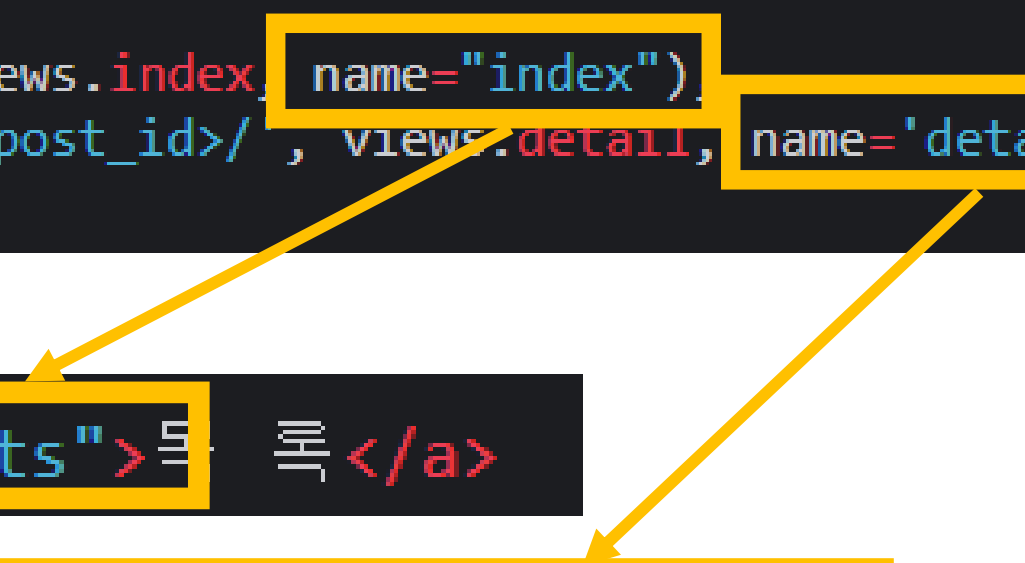
```
28
```

```
app_name = 'posts'
urlpatterns = [
    path('', views.index, name="index"),
    path('<int:post_id>/', views.detail, name='detail'),
]
```

```
<a href="/posts">목록 목록</a>
```

```
<td><a href="/posts/{{ post.id }}">보기</a></td>
```

```
app_name = 'posts'
urlpatterns = [
    path('', views.index, name="index"),
    path('<int:post_id>/', views.detail, name='detail'),
]
```



```
<a href="/posts">목록</a>
```

```
<td><a href="/posts/{{ post.id }}">보기</a></td>
```

```
app_name = 'posts'
urlpatterns = [
    path('', views.index, name="index"),
    path('<int:post_id>/', views.detail, name='detail'),
]
```

```
<a href="{% url 'index' %}">목록</a>
```

```
<td><a href="{% url 'detail' post.id %}">보기</a></td>
```

```
app_name = 'posts'
urlpatterns = [
    path('', views.index, name="index"),
    path('<int:post_id>/', views.detail, name='detail'),
]
```

```
<a href="{% url 'posts:index' %}">목록</a>
```

```
<td><a href="{% url 'posts:detail' post.id %}">보기</a></td>
```


index.html

x



```
{% load static %}
<!DOCTYPE html>
<html>
  <head>
    <title>GSM</title>
  </head>
  <body>
    <h1>Posts</h1>
    <!--<ul>
      <li>나의 첫 Django project</li>-->
    {% if posts %}
      <table>
        <thead>
          <tr>
            <th>#</th>
            <th>작성자</th>
            <th>본문</th>
            <th>게시일</th>
            <th>상세</th>
          </tr>
        </thead>
        <tbody>
          {% for post in posts %}
            <tr>
              <th>{{ post.id }}</th>
              <td>{{ post.author }}</td>
              <td>{{ post.body }}</td>
              <td>{{ post.created_at }}</td>
              <td><a href="{% url 'posts:detail' post.id %}">보기</a></td>
            </tr>
          {% endfor %}
        </tbody>
      </table>
    {% else %}
      <p>No Posts.</p>
    {% endif %}
  </body>
</html>
```

39:1 HTML Spaces: 4



detail.html

x



```
1 {% load static %}
2
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <title>GSM Board</title>
7   <link rel="stylesheet" href="{% static 'posts/style.css' %}" type="text/css" />
8 </head>
9 <body>
10   <h1>Post Detail</h1>
11   {% if post %}
12     <h2>작성자</h2>
13     <p>{{ post.author }}</p>
14
15     <h2>본문</h2>
16     <p>{{ post.body }}</p>
17
18     <h2>게시일</h2>
19     <p>{{ post.created_at }}</p>
20   {% else %}
21     <p>No posts</p>
22   {% endif %}
23
24   <a href="{% url 'posts:index' %}">목록</a>
25 </body>
26 </html>
27
28
```

27:1 HTML Spaces: 4

post 추가

Author:

Body:

Created at:

날짜: 오늘 

시각: 현재 

저장 및 다른 이름으로 추가

저장 및 편집 계속

저장

post 추가

Author:

Body:

Created at:

날짜:

오늘 

시각:

현재 

저장 및 다른 이름으로 추가

저장 및 편집 계속

저장

```
urls.py
1 from django.urls import path
2
3 from . import views
4
5 app_name = 'posts'
6 urlpatterns = [
7     path('', views.index, name="index"),
8     path('new/', views.new, name='new'),
9 ]
10
11
12 12:1 Python Spaces: 4
```

```
views.py
1 from django.shortcuts import render
2 #from django.http import HttpResponse
3 from .models import Post
4
5 # Create your views here.
6
7
8 def index(request):
9     posts = Post.objects.all()
10     context = {'posts' : posts}
11     return render(request, 'posts/index.html', context)
12
13 def detail(request, post_id):
14     post = Post.objects.get(id = post_id)
15     context = {'post' : post }
16     return render(request, 'posts/detail.html', context)
17
18 def new(request):
19     return render(request, 'posts/new.html')
```

```
index.html
6 </nead>
7 <body>
8     <h1>Posts</h1>
9     <!--<ul>
10         <li>나의 첫 Django project</li-->
11     {% if posts %}
12         <table>
13             <thead>
14                 <tr>
15                     <th>#</th>
16                     <th>작성자</th>
17                     <th>본문</th>
18                     <th>게시일</th>
19                     <th>상세</th>
20                 </tr>
21             </thead>
22             <tbody>
23                 {% for post in posts %}
24                     <tr>
25                         <th>{{ post.id }}</th>
26                         <td>{{ post.author }}</td>
27                         <td>{{ post.body }}</td>
28                         <td>{{ post.created_at }}</td>
29                         <td><a href="{% url 'posts:detail' post.id %}">보기</a></td>
30                     </tr>
31                 {% endfor %}
32             </tbody>
33         </table>
34     {% else %}
35         <p>No Posts.</p>
36     {% endif %}
37
38     <a href="{% url 'posts:new' %}">글 쓰기</a>
39 </body>
40 </html>
41
```

Posts

#	작성자	본문	게시일	상세
1	minyoung	나의 Django Project :D	2020년 10월 12일 9:52 오전	보기
2	flower	안녕 나는 꽃이야	2020년 10월 12일 10:21 오전	보기
3	minil	Hello I am minil	2020년 10월 13일 10:48 오전	보기

[글 쓰기](#)

```
urls.py
1 from django.urls import path
2
3 from . import views
4
5 app_name = 'posts'
6 urlpatterns = [
7     path('', views.index, name="index"),
8     path('<int:post_id>/', views.detail, name='detail'),
9     path('new/', views.new, name='new'),
10    path('create/', views.create, name='create'),
11 ]
12
13
7:30 Python Spaces: 4
```

```
views.py
17 return render(request, 'posts/detail.html', context)
18
19 def new(request):
20     return render(request, 'posts/new.html')
21
22 def create(request):
23     author = request.POST['author']
24     body = request.POST['body']
25     post = Post(author=author, body=body, created_at=timezone.now())
26     post.save()
27
28     return redirect('posts:detail', post_id = post.id)
27:5 Python Spaces: 4
```

```
new.html
1 {% load static %}
2
3 <!DOCTYPE html>
4 <html>
5 <head>
6     <title>GSM Board</title>
7     <link rel="stylesheet" href="{% static 'posts/style.css' %}" type="text/css" />
8 </head>
9 <body>
10    <h1>New Post</h1>
11
12
13    <form>
14        {% csrf_token %}
15
16        <h2>작 성 자</h2>
17        <input type="text" name="author"/>
18
19        <h2>본 문</h2>
20        <textarea cols=40 rows=10 name="body"></textarea>
21
22        <br>
23        <input type="submit" value="작 성 하 기" />
24    </form>
25
26    <a href="{% url 'posts:index' %}">목 록</a>
27 </body>
28 </html>
29
30
30:1 HTML Space
```

New Post

작 성 자

본 문

작성하기

[목록](#)

```
<form>
  {% csrf_token %}

  <h2>작 성 자</h2>
  <input type="text" name="author"/>

  <h2>본 문</h2>
  <textarea cols=40 rows=10 name="body"></textarea>

  <br>
  <input type="submit" value="작 성 하 기" />
</form>
```

New Post

작 성 자

본 문

작성하기

[목록](#)

```
<form>
  {% csrf_token %}

  <h2>작 성 자</h2>
  <input type="text" name="author"/>

  <h2>본 문</h2>
  <textarea cols=40 rows=10 name="body"></textarea>

  <br>
  <input type="submit" value="작 성 하 기" />
</form>
```


New Post

작 성 자

본 문

작성하기

[목록](#)

```
<form>
  {% csrf_token %}

  <h2>작 성 자</h2>
  <input type="text" name="author"/>

  <h2>본 문</h2>
  <textarea cols=40 rows=10 name="body"></textarea>

  <br>
  <input type="submit" value="작 성 하 기" />
</form>
```

New Post

작 성 자

본 문

작성하기

목록

```
<form>
  {% csrf_token %}

  <h2>작 성 자</h2>
  <input type="text" name="author"/>

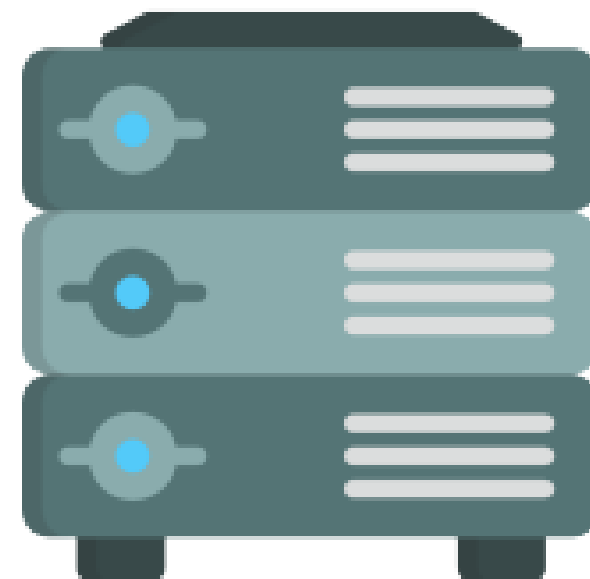
  <h2>본 문</h2>
  <textarea cols=40 rows=10 name="body"></textarea>

  <input type="submit" value="작 성 하 기" />
</form>
```



Form

**Input Data
(author, body)**

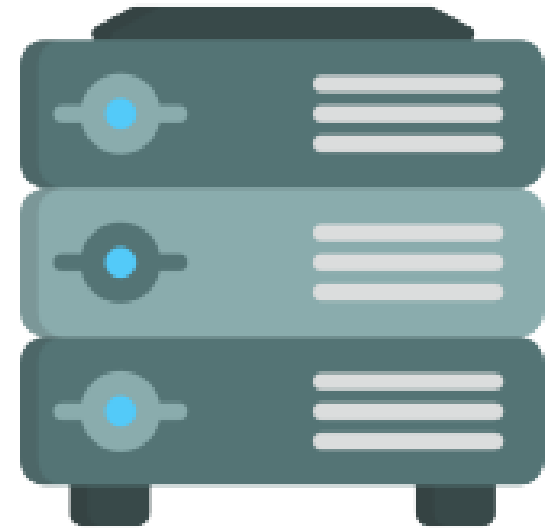


Server



Form

POST /posts/create



Server



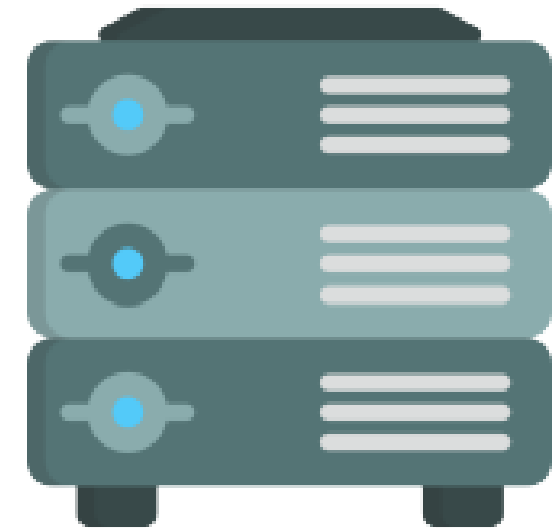
Form

POST /posts/create



author, body

Request Body

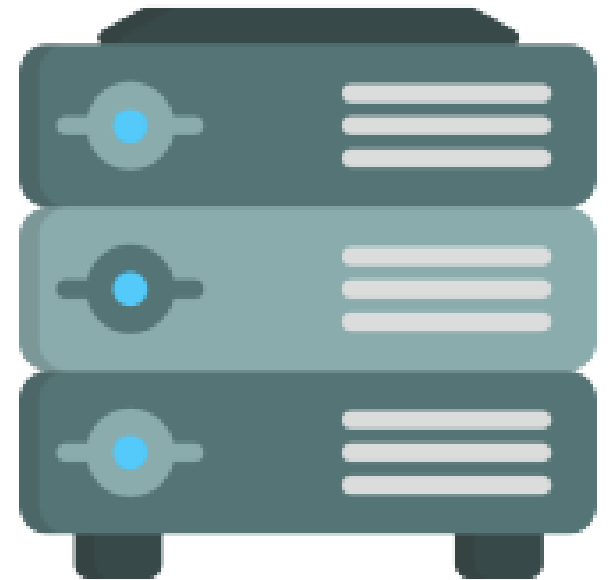


Server



Form

GET /posts/create?author=Gsmhi_ &body=sample-text



Server



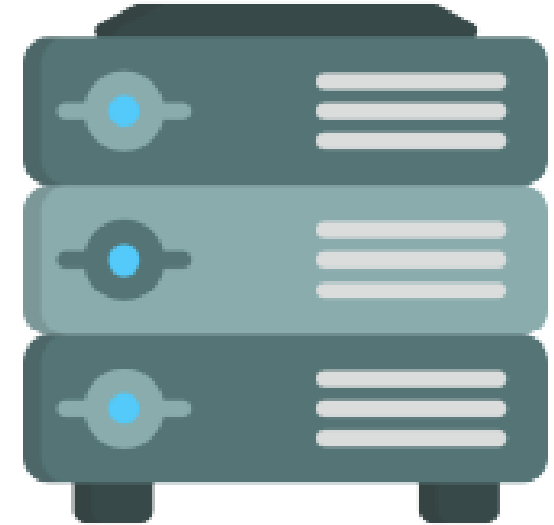
Form

POST /posts/create



author, body

Request Body



Server

New Post

작 성 자

본 문

작성하기

[목록](#)

```
<form action="{% url 'posts:create' %}" method = "POST">
    {% csrf_token %}

    <h2>작 성 자</h2>
    <input type="text" name="author"/>

    <h2>본 문</h2>
    <textarea cols=40 rows=10 name="body"></textarea>

    <br>
    <input type="submit" value="작 성 하 기" />
</form>
```


New Post

작 성 자

본 문

작성하기

[목록](#)

```
<form action="{% url 'posts:create' %}" method = "POST">
    {% csrf_token %}

    <h2>작 성 자</h2>
    <input type="text" name="author"/>

    <h2>본 문</h2>
    <textarea cols=40 rows=10 name="body"></textarea>

    <br>
    <input type="submit" value="작 성 하 기" />
</form>
```

CSRF

(Cross Site Request Forgery)

New Post

작 성 자

본 문

작성하기

[목록](#)

POST/posts/create

```
<form action="{% url 'posts:create' %}" method = "POST">
    {% csrf_token %}

    <h2>작 성 자</h2>
    <input type="text" name="author"/>

    <h2>본 문</h2>
    <textarea cols=40 rows=10 name="body"></textarea>

    <br>
    <input type="submit" value="작 성 하 기" />
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```

urls.py

```
1 from django.urls import path
2 from . import views
3
4 app_name = 'posts'
5 urlpatterns = [
6     path('', views.index, name="index"),
7     path('<int:post_id>/', views.detail, name='detail'),
8     path('new/', views.new, name='new'),
9     path('create/', views.create, name='create'),
10 ]
```

1:29 Python Spaces: 4

views.py

```
1 from django.shortcuts import render, redirect
2 from .models import Post
3 from django.utils import timezone
4
5 def index(request):
6     posts = Post.objects.all()
7     context = {'posts': posts}
8     return render(request, 'posts/index.html', context)
9
10 def detail(request, post_id):
11     post = Post.objects.get(id = post_id)
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15 def new(request):
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18 def create(request):
19     author = request.POST['author']
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21     post = Post(author=author, body=body, created_at=timezone.now())
22     post.save()
23
24     return redirect('posts:detail', post_id = post.id)
```

24:55 Python Spaces: 4

new.html

```
1 {% load static %}
2
3 <!DOCTYPE html>
4 <html>
5 <head>
6     <title>GSM Board</title>
7     <link rel="stylesheet" href="{% static 'posts/style.css' %}" type="text/css" />
8 </head>
9 <body>
10     <h1>New Post</h1>
11
12
13     <form action="{% url 'posts:create' %}" method = "POST">
14         {% csrf_token %}
15
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21
22         <br>
23         <input type="submit" value="작 성 하 기" />
24     </form>
25
26     <a href="{% url 'posts:index' %}">목 록</a>
27 </body>
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30:1 HTML Spaces: 4

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New Post

작 성 자

애들아

본 문

장 고 를 다 까 먹 은 건 아 니 지 ..?

작 성 하 기

[목 록](#)

Post Detail

작성자

애들아

본 문

장고를 다 까먹은건 아니지..?

게 시 일

2020년 11월 3일 11:23 오전

[목 록](#)

Posts

#	작성자	본문	게시일	상세
1	minyoung	나의 Django Project :D	2020년 10월 12일 9:52 오전	보기
2	flower	안녕 나는 꽃이야	2020년 10월 12일 10:21 오전	보기
3	minil	Hello I am minil	2020년 10월 13일 10:48 오전	보기
5	gsm	gsm_lunch	2020년 11월 3일 10:58 오전	보기
6	CODING	ZAM	2020년 11월 3일 11:02 오전	보기
7	애들아	장고를 다 까먹은건 아니지..?	2020년 11월 3일 11:23 오전	보기

[글 쓰기](#)

CRUD

CRUD는 대부분의 컴퓨터 소프트웨어가 가지는 기본적인 데이터 처리 기능인 **Create(생성), Read(읽기), Update(갱신), Delete(삭제)**를 묶어서 일컫는 말

Create & Read

끝 !