**[ 5 ] blog web**

* 웹 애플리케이션 설계
* 프로젝트 설정 변경(settings.py)
* 데이터베이스에 Image 필드 추가(models.py)
* ListView vs. DetailView(views.py)
* Bootstrap 이용 :

<https://bootswatch.com>,

<http://getbootstrap.com> > Doc > Layout > Grid,

<http://startbootstrap.com> >templates>blog

1. 프로젝트 생성 및 애플리케이션 생성, 프로젝트 설정 변경(ch05/settings.py)

INSTALLED\_APPS = [  
 **'blog.apps.BlogConfig'**, #앱 등록

]

*# TIME\_ZONE = 'UTC'*TIME\_ZONE = **'Asia/Seoul'** *# 타임존 변경*

import os  
MEDIA\_ROOT = os.path.join(BASE\_DIR, **'\_media'**)  
MEDIA\_URL = **'/media/'**

1. 데이터베이스 만들기 (blog/models.py)

from django.db import models  
from django.contrib.auth.models import User  
class Post(models.Model):  
 title = models.CharField(max\_length=30)  
 content = models.TextField()  
 head\_image = models.ImageField(upload\_to=**'blog/%Y/%m/%d/'**, blank=True)  
 created = models.DateTimeField(blank=True)  
 author = models.ForeignKey(User, models.CASCADE)  
 def \_\_str\_\_(self):  
 return **"{} :: {}"**.format(self.title, self.author)

1. 데이터 베이스를 admin에 적용(blog/admin.py)

from django.contrib import admin  
from .models import Post  
admin.site.register(Post)

1. 데이터 베이스에 반영

python manage.py makemigrations ; migration할 것이 있는지 확인

python manage.py migrate

1. 관리자 계정을 생성 및 웹 서버 실행하여 확인

python manage.py createsuperuser

python manage.py runserver

1. 모든 페이지 구현 순서
   1. URLconf
      1. ch05/urls.py
      2. blog/urls.py
   2. Views
      1. blog/views.py
   3. Template
      1. blog/templates/blog/post\_detail.html
      2. blog/templates/blog/post\_list.html
2. blog list, blog detail
   1. URLconf
      1. ch05/urls.py

from django.contrib import admin  
from django.urls import path, include  
from django.conf.urls.static import static  
from django.conf import settings  
urlpatterns = [  
 path(**'admin/'**, admin.site.urls),  
 path(**'blog/'**, include(**'blog.urls'**)),  
]  
urlpatterns += static(settings.MEDIA\_URL,  
 document\_root=settings.MEDIA\_ROOT)

* + 1. blog/urls.py

from django.urls import path  
from . import views  
urlpatterns = [  
 path(**''**, views.PostList.as\_view()),  
 path(**'<int:pk>/'**, views.PostDetail.as\_view(), name=**'detail'**)  
 *# path('<int:pk>/', views.post\_detail, name="detail")*]

* 1. Views
     1. blog/views.py

from django.shortcuts import render  
from .models import Post  
from django.views.generic import ListView  
from django.views.generic import DetailView  
  
class PostList(ListView):  
 model = Post  
 def get\_queryset(self):  
 return Post.objects.order\_by(**'-created'**)  
  
*# def index(request):  
# posts = Post.objects.all()  
# context = {  
# 'posts':posts,  
# }  
# return render(request, 'blog/post\_list.html', context)*class PostDetail(DetailView):  
 model = Post  
  
*# def post\_detail(request, pk):  
# post = Post.objects.get(pk=pk)  
# context = {  
# 'post':post,  
# }  
# return render(request, 'blog/post\_detail.html', context)*

* 1. Templates
     1. blog/templates/blog/post\_list.html

{% for post in object\_list %}  
*<!-- Blog Post -->*<div class="card mb-4">  
 {% if post.head\_image %}  
 <img class="card-img-top" src="{{ post.head\_image.url }}" width="750" height="300" alt="Card image cap">  
 {% else %}  
 <img class="card-img-top" src="{%static 'blog/img/noImg.png'%}" width="750" height="300" alt="Card image cap">  
 {% endif %}  
 <div class="card-body">  
 <h2 class="card-title">{{post.title | truncatewords:4 }}</h2>  
 <p class="card-text">{{post.content | truncatewords:20 }}</p>  
 <a href="{%url 'detail' post.pk %}" class="btn btn-primary">Read More &rarr;</a>  
 </div>  
 <div class="card-footer text-muted">  
 Posted on {{post.created}} by {{post.author}}  
 </div>  
</div>  
{% endfor %}

* + 1. blog/templates/blog/post\_detail.html

*<!-- Post Content Column -->*<div class="col-lg-8">  
 *<!-- Title -->* <h1 class="mt-4">{{object.title}}</h1>  
 *<!-- Author -->* <p class="lead">by {{object.author}} </p>  
 <hr>  
 *<!-- Date/Time -->* <p>Posted on {{object.created}}</p>  
 <hr>  
 *<!-- Preview Image -->* {% if post.head\_image %}  
 <img class="img-fluid rounded" src="{{ object.head\_image.url }}" width="900" height="300" alt="Card image cap">  
 {% else %}  
 <img class="img-fluid rounded" src="{%static 'blog/img/noImg.png'%}" width="900" height="300" alt="Card image cap">  
 {% endif %}  
 <hr>  
 *<!-- Post Content -->* <p class="lead">{{object.content}}</p>  
</div>