실전학습 COP (Collaboration of Practices) songpanet@naver.com

Python Django 게시판 (MariaDB)

1단계 – 장고설치, 프로젝트, 앱생성

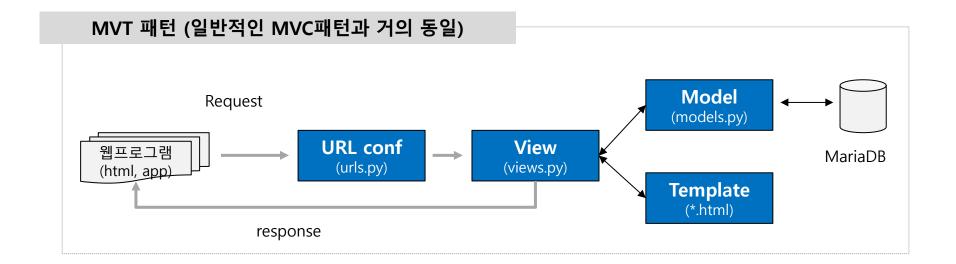
환경 준비

- Python 설치, 가상환경 구성
- MariaDB 설치
- 장고(Django) 설치

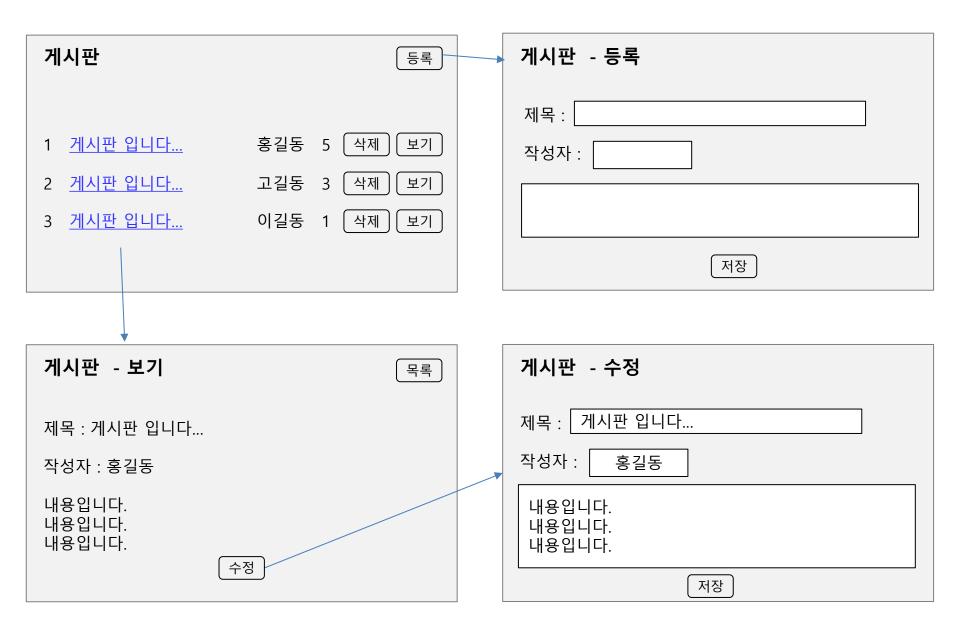
✓ django-admin startproject config.

- Python –version
- django-admin --version
- pip install virtualenvwrapper-win
- mkvirtualenv test1
- pip install django
- django-admin -version
- pip install mysqlclient

https://www.youtube.com/watch?v=OTmQOjsl0eg

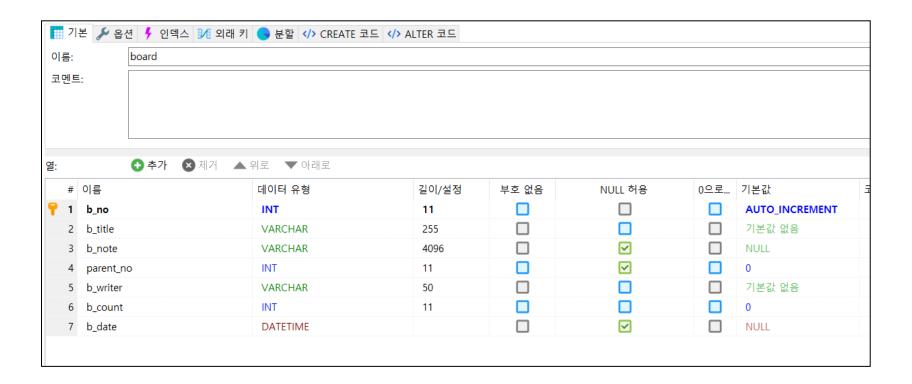


설계 - 화면



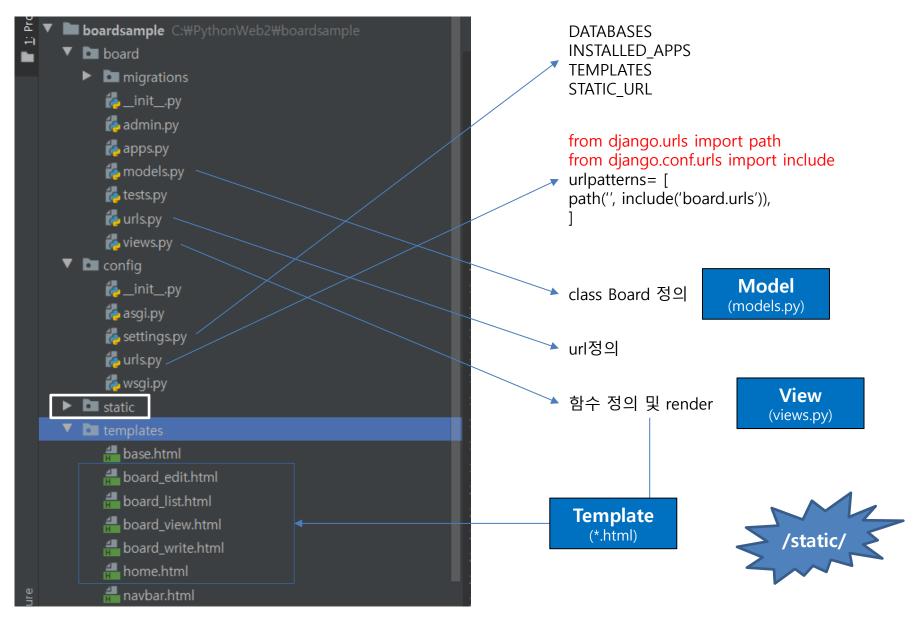
구축 (MariaDB)

HeidiSQL을 사용하여 board 테이블 만들기



Board 설계

python manage.py startapp board



config/settings.py

```
INSTALLED_APPS = [
    'board',
]

TEMPLATES = [
    'DIRS': [os.path.join(BASE_DIR, 'templates')],
]

STATICFILES_DIRS = [
    os.path.join(BASE_DIR, 'static'),
]
```

2단계 - Template분리, Bootstrap 디자인 적용

Urls.py

```
boardsample C:\PythonWeb2\
                                      from django.contrib import admin
  board
                                      from django.urls import path
                                      from django.conf.urls import url, include
  migrations
     🛵 __init__.py
                                      urlpatterns = [
     admin.py
                                         path('admin/', admin.site.urls),
     apps.py
                                         path(", include('board.urls')),
     amodels.py
     tests.py
     🛵 urls.py
     🥻 views.py
                                      from django.conf.urls import url, include
▼ 🖿 config
                                      from django.urls import path
     __init__.py
     🛵 asgi.py
                                      from . import views
     🛵 settings.py
     arls.py
                                      urlpatterns = [
     🛵 wsgi.py
                                         path(", views.home, name="home"),
▶ ■ static
▼ I templates
     abase.html
                                      http://127.0.0.1:8000/ 로 접속하게 되면
     aboard_edit.html
                                      views.py 에 있는 home 함수를 호출한다.
    # board_list.html
     board_view.html
                                      from django.shortcuts import render
     aboard write.html
                                      def home(request):
     🖶 home.html
                                         return render(request, "home.html")
     🖶 navbar.html
```

Template (.html)

```
<!DOCTYPF html>
<html lang="en">
  <head>
     <title>게시판 예제입니다. </title>
     <style>
       .myclass {
          color:blue;
     </style>
     <script LANGUAGE="javascript">
       function testFunction() {
          alert("Javascript function...");
     </script>
  </head>
  <body>
  <div>
     <h3>장고(Django) + MariaDB 게시판</h3>
     ul>
       HOME
       Call function 
       COP
     </div>
  </body>
</html>
```

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
  <head>
     <title>
        {% block title %}
        게시판 예제입니다.
        {% endblock %}
     </title>
     {% block styles %}
     <style>
        .myclass {
          color:blue;
     </style>
     {% endblock %}
     {% block scripts %}
     <script LANGUAGE="javascript">
        function testFunction() {
          alert("Javascript function...");
     </script>
     {% endblock %}
  </head>
  <body>
  {% block body %}
   <div>
     <h3>장고(Django) + MariaDB 게시판</h3>
     <
        HOME
        Call function 
        COP 
     </div>
  {% endblock %}
  </body>
</html>
```

Template (.html) 분리

base.html

```
{% load static %}
                                                     <!DOCTYPF html>
{% load static %}
                                                     <html lang="en">
<!DOCTYPF html>
                                                        <head>
<html lang="en">
                                                          <title>
  <head>
                                                             {% block title %}
     <title>
                                                             게시판 예제입니다.
                       {% extends "base.html" %}
       {% block title %}
                                                             {% endblock %}
       게시판 예제입니다.
                                                          </title>
       {% endblock %}
                                                          {% block styles %}
     </title>
                                                          <style>
     {% block styles %}
                                                          </style>
     <style>
                                                          {% endblock %}
     </style>
                                                          {% block scripts %}
     {% endblock %}
                                                          <script LANGUAGE="javascript">
     {% block scripts %}
                                                          </script>
     <script LANGUAGE="javascript">
                                                          {% endblock %}
     </script>
                                                        </head>
     {% endblock %}
                                                        <body>
  </head>
  <body>
  {% block body %}
  <div>
     <h3>장고(Diango) + MariaDB 게시판</h3>
                                                     navbar.html
     HOME
                                                        <div>
       Call function 
                                                           <h3>장고(Django) + MariaDB 게시판</h3>
       COP 
                                                          ul>
     HOME
                        {% include "navbar.html" %}
  </div>
                                                             Call function 
  {% endblock %}
                                                             COP 
  </body>
                                                           </html>
                                                        </div>
```

{{ block.super }}

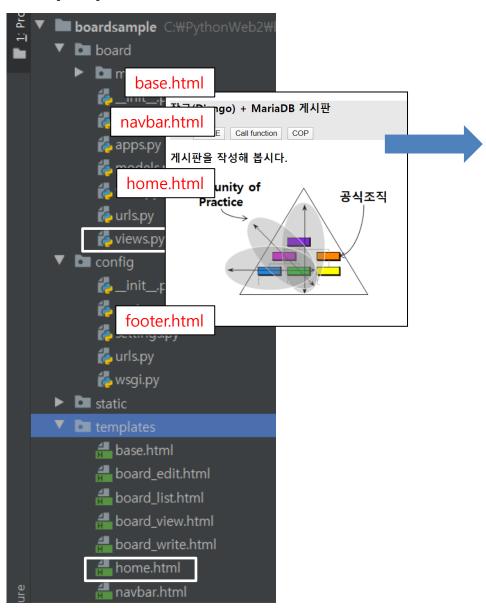
<!-- 부모 템플릿에서 블록의 내용을 가져와야 할 경우 -->

```
{% extends 'example.html' %}

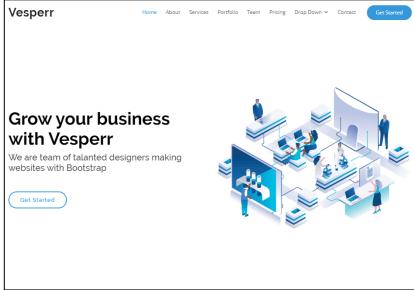
{% block content %}
    {{ block.super }}
    The previous example text is replaced by this text.
{% endblock %}
```

디자인을 입혀 봅시다.

구 화면



bootstrapmade.com



Bootstrap 적용

구 화면

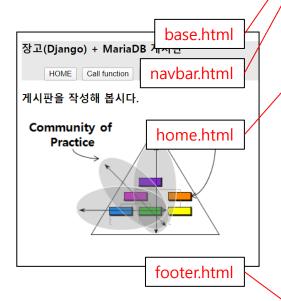
bootstrapmade.com

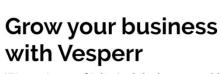
assets
forms
changelog.txt
index.html
index2.html
portfolio-details.html
Readme.txt

Home About Services Portfolio Team Pricing Drop Down ➤ Contact

Your Email
Subject
Message

- 1. 디자인 템플릿 다운로드
- 2. static으로 복사
- 3. Index.html등에서 선택 적용





We are team of talanted designers making websites with Bootstrap

Get Started

C:/djangoboard2/Vesperr/index.html

Vesperr



Vesperr	A108 Adam Street	
Cras fermentum odio eu feugiat. Justo eget magna	New York, NY 535022	
fermentum iaculis eu non diam phasellus. Scelerisque felis imperdiet proin fermentum leo. Amet volutpat consequat mauris nunc congue.	info@example.com	
y f 0 (n)	+1 5589 55488 55s	

Send Message

© Copyright Vesperr. All Rights Reserved

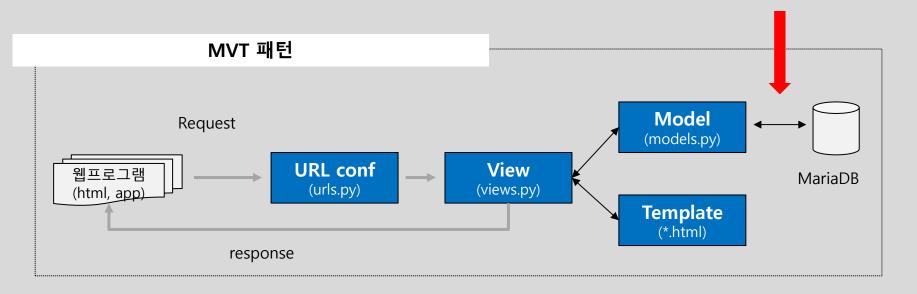
igned by bootstapmade

Home About Privacy Policy Terms of Use

3단계 – 게시판

SQLAlchemy



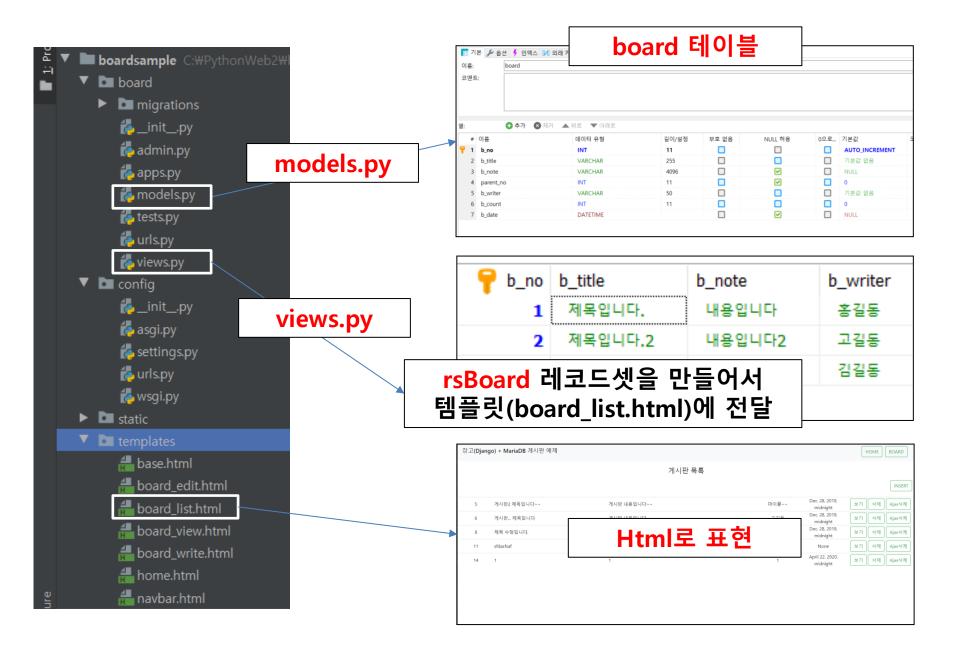


config/settings.py

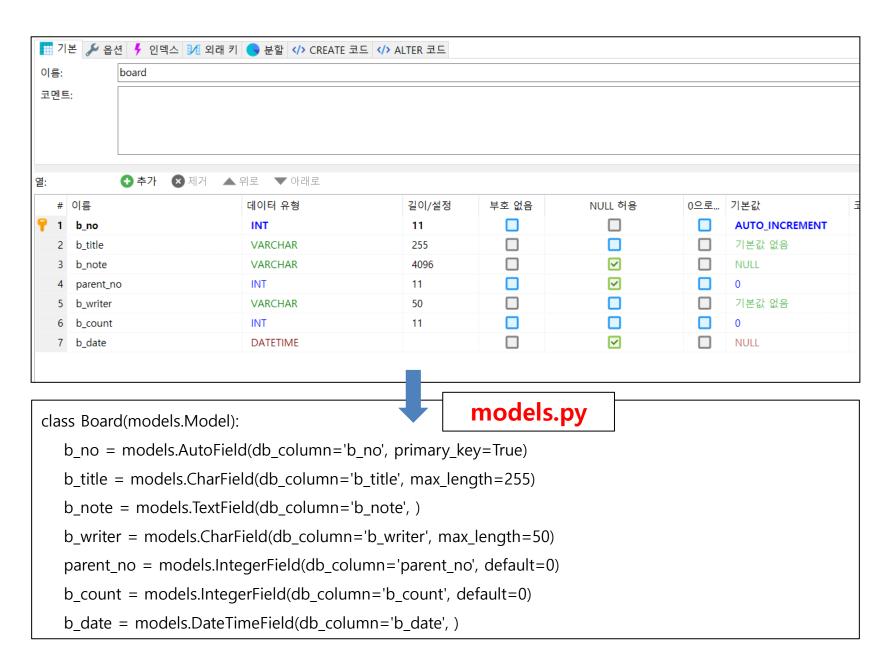
pip install mysqlclient

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': 'edudb',
        'USER': 'root',
        'PASSWORD': 'intra165',
        'HOST': '127.0.0.1',
        'PORT': '3306',
    }
}
```

게시판 목록 (조회)



게시판 Table과 ORM



마이그레이션

python manage.py makemigrations python manage.py migrate

makemigrations : models.py에서 적용한 변경사항이나 추가된 혹은 삭제된 사항들을 감지하여 파일로 생성

migrate: 적용되지 않은 migrations들을(설정값 들을) 적용시키는 역할

The Commands

There are several commands which you will use to interact with migrations and Django's handling of database schema:

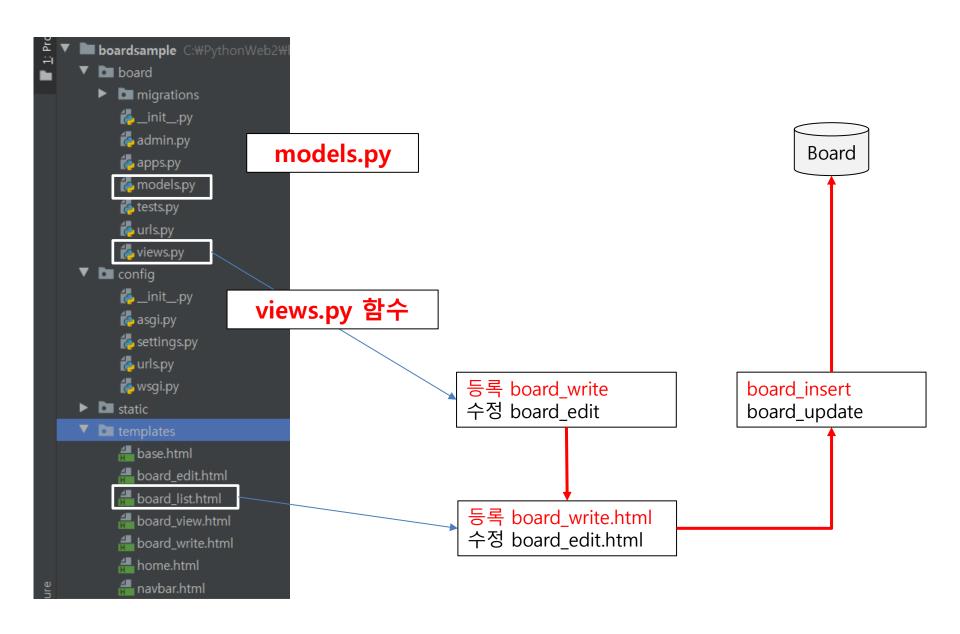
- migrate, which is responsible for applying and unapplying migrations.
- makemigrations, which is responsible for creating new migrations based on the changes you have made to your models.
- **sqlmigrate**, which displays the SQL statements for a migration.
- **showmigrations**, which lists a project's migrations and their status.

You should think of migrations as a version control system for your database schema. **makemigrations** is responsible for packaging up your model changes into individual migration files - analogous to commits - and **migrate** is responsible for applying those to your database.

설계 - 화면

Board → board_list.html board_write → board_write.html → board_insert 게시판 등록 게시판 - 등록 제목 : 홍길동 게시판 입니다... 삭제 5 보기 작성자: 고길동 삭제 게시판 입니다... 3 보기 게시판 입니다... 이길동 삭제 보기 저장 board_delete board_edit → board_edit.html → board_update board_view → board_view.html 게시판 - 보기 게시판 - 수정 목록 제목 : 기시판 입니다... 제목:게시판 입니다... 작성자 : 홍길동 작성자 : 홍길동 내용입니다. 내용입니다. 내용입니다. 내용입니다. 내용입니다. 내용입니다. 수정 저장

게시판 등록,수정,삭제



심 화

- ✓ 링크 구성해 보기
- ✓ 댓글
- ✓ Page scroll 자동으로 조회... (혹은 페이지 표기)
- ✓ 이미지/파일 첨부
- ✓ 에러 체크
- ✓ Ajax로 처리 (get/post 방식과 비교)
- ✓ Ajax로 count 증가
- ✓ Css와 image등 resource처리
- ✓ 특수문자 처리 get방식에서 &,'`" 등 처리
- ✓ ANSI/UTF8, encode/decode
- ✓ 파일 첨부