



# G-CAMP WORKSHOP

BUILD THE RIGHT THING  
BUILD THING RIGHT  
SHIP FAST

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## 3강\_Django 프로젝트 설계

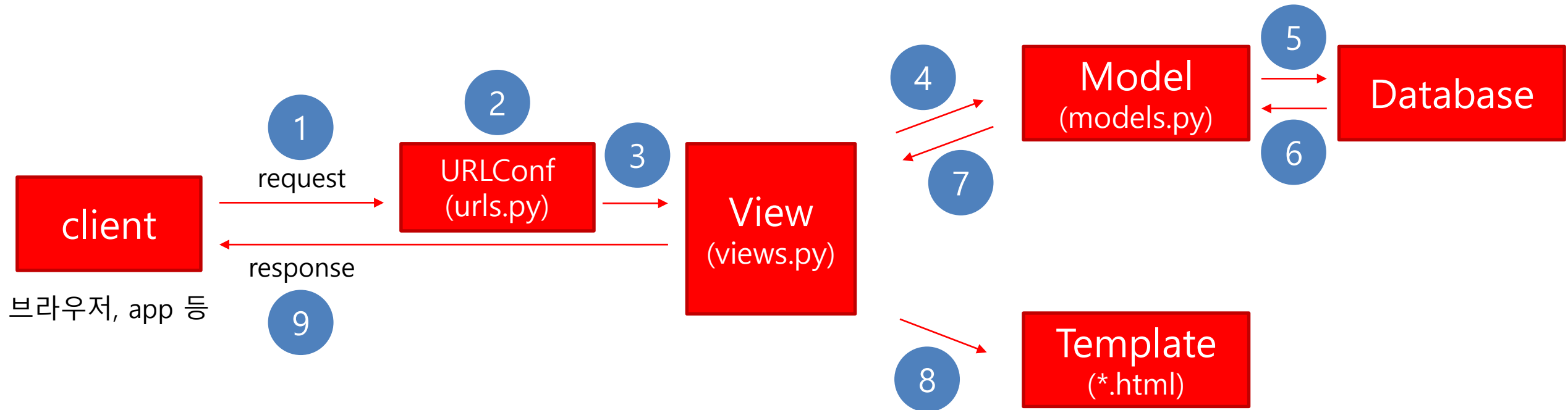
- Django framework 흐름도
  - URLconf(urls.py)
  - View(views.py)
  - Model(models.py)
  - Template(\*.html)
- 프로젝트 설정(/tempPjt/settings.py)
  - 기본 사용자 및 그룹 테이블 생성
  - 관리자 계정 생성 및 서버 구동



## 3-1. Django framework 흐름도



### Django framework flow





## 3-2. URLconf(urls.py)



### URLconf – tempProject/tempPjt/urls.py

```
urlpatterns = [  
    path('student/register/', views.student_register),  
    path('student/search/', views.student_search),  
    path('student/modify/', views.student_modify),  
    path('student/delete/', views.student_delete)  
]
```

**path('student/register/',** **views.student\_register),**

URL(클라이언트 요청 URL)

view(함수 또는 메서드)

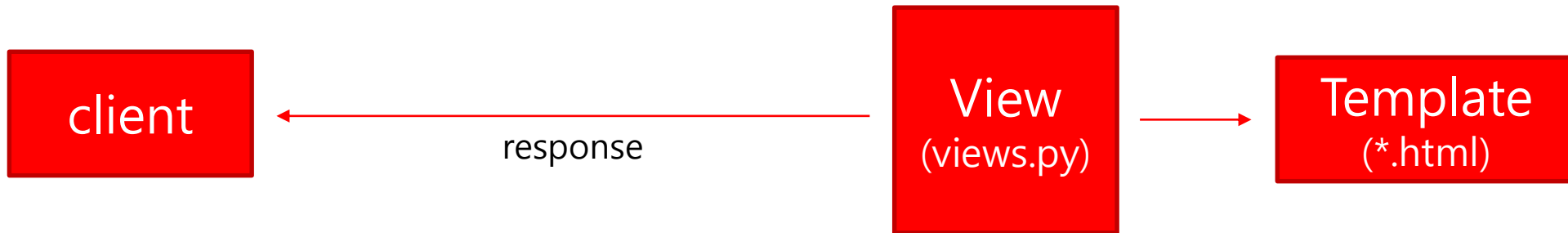


### 3-3. View(views.py)



#### View – tempProject/students/views.py

```
def registerStudent(request):  
    # 데이터 베이스 등을 이용한 프로그램 실행 결과  
    return HttpResponse()
```



클라이언트의 요청에 따른 애플리케이션 실행 결과를 Template(html), 에러메시지 등을 이용해서 클라이언트한테 response 한다.

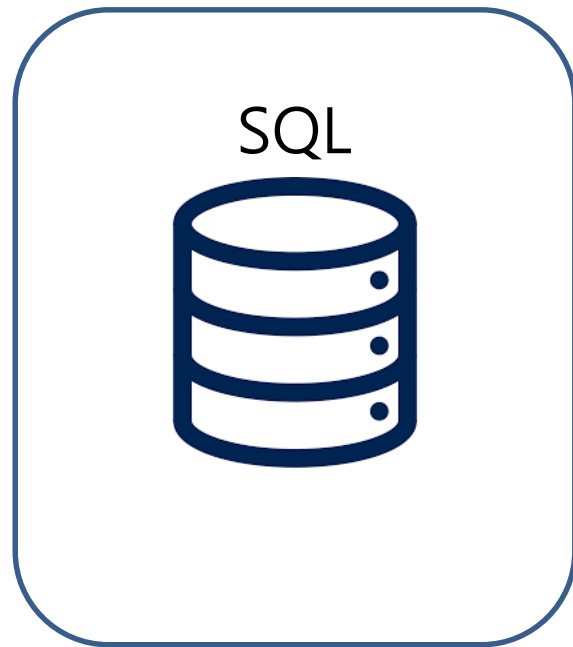


## 3-4. Model(models.py)



### Model - tempProject/students/models.py

ORM(Object Relational Mapping) 사용



class를 이용한 맵핑



```
class Student(models.Model):  
    s_name = models.CharField(max_length=30)  
    s_major = models.CharField(max_length=30)
```



students\_student 테이블 생성

애플리케이션 이름 + \_ + 클래스명(소문자)





## 3-5. Template(\*.html)

tempProject/tempPjt/settings.py에서 Template 파일 검색 디렉토리 정의

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
]
```

```
TEMPLATES = [  
    {  
        'BACKEND': 'django.template.backends.django.DjangoTemplates',  
        'DIRS': [],  
        'APP_DIRS': True,  
        'OPTIONS': {  
            'context_processors': [  
                'django.template.context_processors.debug',  
                'django.template.context_processors.request',  
                'django.contrib.auth.context_processors.auth',  
                'django.contrib.messages.context_processors.messages',  
            ],  
        },  
    },  
]
```



## 3-6. 프로젝트 설정(/tempPjt/settings.py)



**settings.py – 프로젝트의 전체적인 설정을 담당한다.**

- 모든 애플리케이션을 설정파일에 등록

애플리케이션의 설정클래스를 이용한 등록

tempProject/students/apps.py

```
from django.apps import AppConfig
```

```
class StudentsConfig(AppConfig):  
    name = 'students'
```

```
INSTALLED_APPS = [  
    ...  
    'django.contrib.staticfiles',  
    'students.apps.StudentConfig',  
]
```

- 개발모드와 운영모드 설정

DEBUG = True

DEBUG = True #개발모드  
DEBUG = False #운영모드

ALLOWED\_HOSTS = [localhost, '127.0.0.1']

#개발모드  
- 입력하지 않아도 자동으로 localhost로 정의  
#운영모드  
- 서버 IP주소 입력





## 3-7. 기본 사용자 및 그룹 테이블 생성



CA 명령 프롬프트

```
C:\WDjango\pjt\tempProject>python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying sessions.0001_initial... OK
```

사용자 및 그룹 테이블 생성



### AUTHENTICATION AND AUTHORIZATION

Groups

+ Add

Change

Users

+ Add

Change

```
C:\WDjango\pjt\tempProject>python manage.py makemigrations
Migrations for 'students':
  students\migrations\0001_initial.py
    - Create model Student
```

```
C:\WDjango\pjt\tempProject>python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions, students
Running migrations:
  Applying students.0001_initial... OK
```

데이터베이스 변경사항 반영



## 3-8. 관리자 계정 생성 및 서버 구동



```
C:\Django\pit\tempProject>python manage.py createsuperuser
Username (leave blank to use 'root'): blogstudy
Email address: blogstudy@naver.com
Password:
Password (again):
The password is too similar to the username.
Bypass password validation and create user anyway? [y/N]: y
Superuser created successfully.
```

관리자 계정 생성

서버 구동

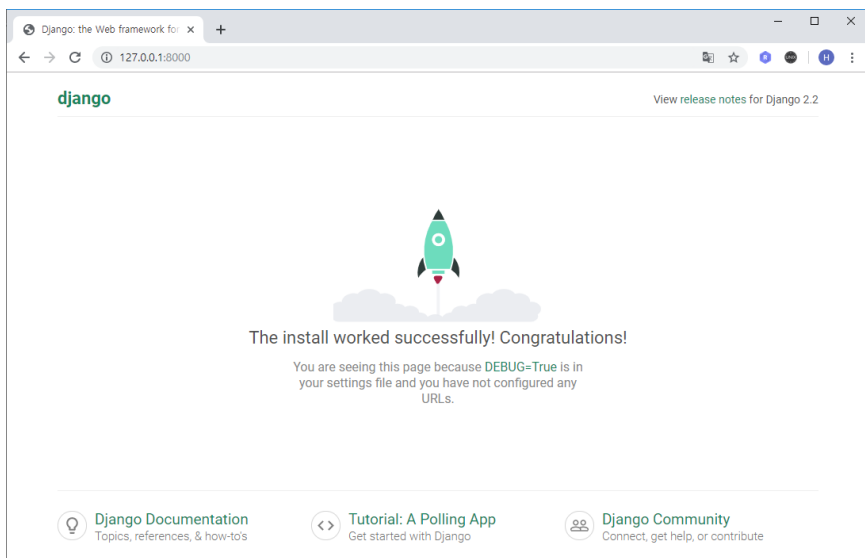
```
md.exe - python manage.py runserver 0.0.0.0:8000

C:\Django\pit\tempProject>python manage.py runserver 0.0.0.0:8000
Watching for file changes with StatReloader
Performing system checks...

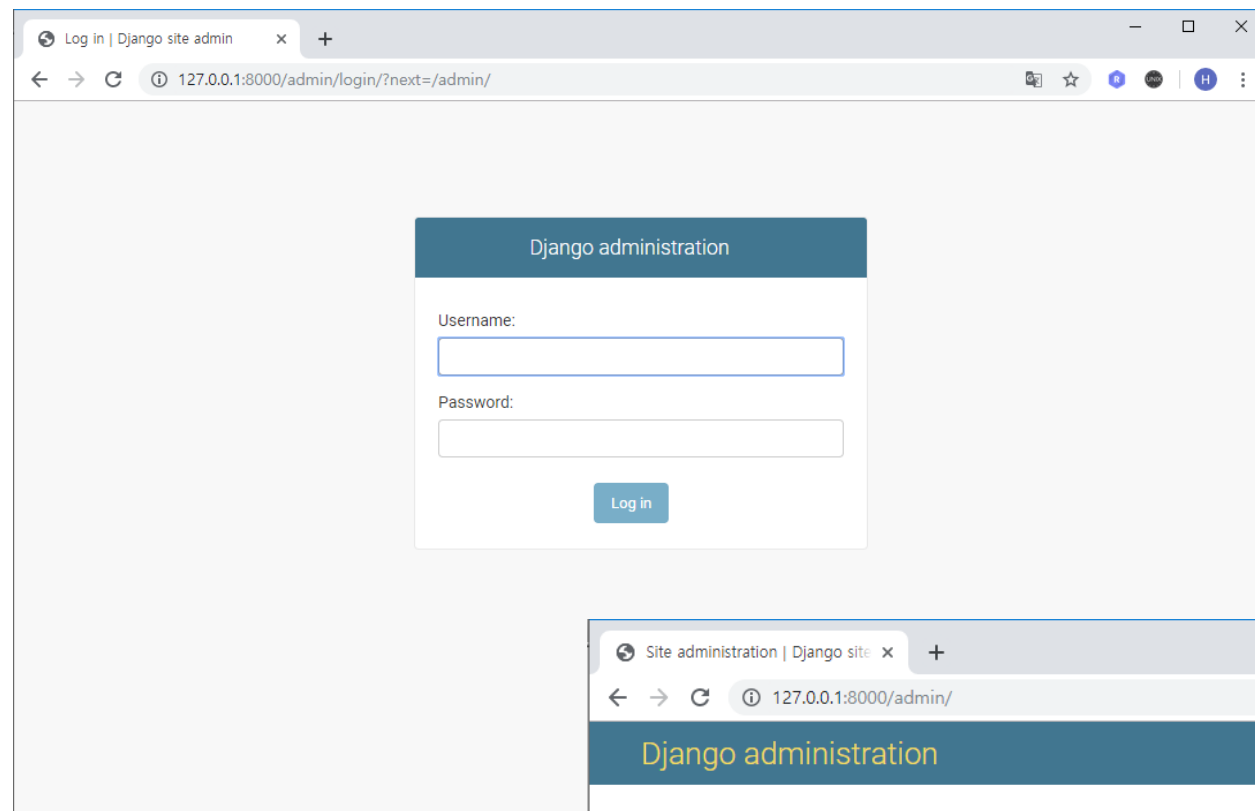
System check identified no issues (0 silenced).
June 27, 2019 - 10:07:22
Django version 2.2.2, using settings 'tempPit.settings'
Starting development server at http://0.0.0.0:8000/
Quit the server with CTRL-BREAK.
[27/Jun/2019 10:07:43] "GET / HTTP/1.1" 200 16348
[27/Jun/2019 10:07:43] "GET /static/admin/css/fonts.css HTTP/1.1" 200 423
[27/Jun/2019 10:07:43] "GET /static/admin/fonts/Roboto-Light-webfont.woff HTTP/1.1" 200 85692
[27/Jun/2019 10:07:43] "GET /static/admin/fonts/Roboto-Bold-webfont.woff HTTP/1.1" 200 86184
[27/Jun/2019 10:07:43] "GET /static/admin/fonts/Roboto-Regular-webfont.woff HTTP/1.1" 200 85876
Not Found: /favicon.ico
[27/Jun/2019 10:07:43] "GET /favicon.ico HTTP/1.1" 404 1973
[27/Jun/2019 10:07:58] "GET /admin/ HTTP/1.1" 302 0
[27/Jun/2019 10:08:03] "GET /admin/login/?next=/admin/ HTTP/1.1" 200 1823
[27/Jun/2019 10:08:03] "GET /static/admin/css/login.css HTTP/1.1" 200 1233
[27/Jun/2019 10:08:03] "GET /static/admin/css/responsive.css HTTP/1.1" 200 17944
[27/Jun/2019 10:08:03] "GET /static/admin/css/base.css HTTP/1.1" 200 16378
[27/Jun/2019 10:09:29] "POST /admin/login/?next=/admin/ HTTP/1.1" 302 0
[27/Jun/2019 10:09:29] "GET /admin/ HTTP/1.1" 200 3050
[27/Jun/2019 10:09:29] "GET /static/admin/css/dashboard.css HTTP/1.1" 200 412
[27/Jun/2019 10:09:29] "GET /static/admin/img/icon-changelink.svg HTTP/1.1" 200 380
```



## 3-8. 관리자 계정 생성 및 서버 구동



client 화면



admin 화면

