Lab2. Django Project 시작하기

1. Project 생성하기
   ```
   $ cd DjangoHome

   $ django-admin startproject myproject

   $ cd myproject

   $ ls
   manage.py            myproject    <---프로젝트와 동일한 이름의 디렉토리 생성됨.

   $ cd myproject
   $ ls
   __init__.py    asgi.py    settings.py    urls.py    wsgi.py
   ```

2. Visual Studio Code로 현재(DjangoHome/myproject) 디렉토리 오픈하기
   ```
   $ pwd
   ~/DjangoHome/myproject
   ```

3. settings.py 설정 수정하기
   1)HOSTS 설정
      [settings.py]

      ```
      # SECURITY WARNING: don't run with debug turned on in production!
      DEBUG = True

      ALLOWED_HOSTS = ['*']      <----여기 수정
      ```

   2)EC2 Instance에 프로젝트를 올린 후 접근을 위해 '*'로 수정함.

4. Django 메인 화면 웹 브라우저로 실행하기
   1)Terminal에서(Windows 환경이라면 Git Bash로 Terminal 실행할 것)
      ```
      $ python manage.py runserver
      Watching for file changes with StatReloader
      Performing system checks...

      System check identified no issues (0 silenced).

      You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
      Run 'python manage.py migrate' to apply them.
      May 11, 2023 - 05:17:36
      Django version 4.2.1, using settings 'myproject.settings'
      Starting development server at http://127.0.0.1:8000/
      Quit the server with CONTROL-C.
      ```

   2)Web Browser에서 확인
      http://localhost:8000

   3)특정 Port로 서비스하기
      ```
      $ python manage.py runserver 9000
      Watching for file changes with StatReloader
      Performing system checks...

      System check identified no issues (0 silenced).

      You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
      Run 'python manage.py migrate' to apply them.
      May 11, 2023 - 05:42:16
      Django version 4.2.1, using settings 'myproject.settings'
      Starting development server at http://127.0.0.1:9000/
      Quit the server with CONTROL-C.
      ```

5. 관리자계정(Superuser) 생성하기
   1)createsuperuser 옵션 사용
      ```
      $ python manage.py createsuperuser
      You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
      Run 'python manage.py migrate' to apply them.
      Traceback (most recent call last):
        File "/Users/henry/DjangoHome/lib/python3.11/site-packages/django/db/backends/utils.py", line 89, in _execute
      ...
      ...
      sqlite3.OperationalError : no such table: auth_user
      ...
      ...
      django.db.utils.OperationalError : no such table : auth_user
      ```

```
82
83      ※기본 테이블 생성이 안되어 있기 때문에 superuser 생성이 안된다.
84
85   2)기본 테이블 생성
86      $ python manage.py migrate
87      Operations to perform:
88        Apply all migrations: admin, auth, contenttypes, sessions
89      Running migrations:
90        Applying contenttypes.0001_initial... OK
91        Applying auth.0001_initial... OK
92        Applying admin.0001_initial... OK
93        Applying admin.0002_logentry_remove_auto_add... OK
94        Applying admin.0003_logentry_add_action_flag_choices... OK
95        Applying contenttypes.0002_remove_content_type_name... OK
96        Applying auth.0002_alter_permission_name_max_length... OK
97        Applying auth.0003_alter_user_email_max_length... OK
98        Applying auth.0004_alter_user_username_opts... OK
99        Applying auth.0005_alter_user_last_login_null... OK
100       Applying auth.0006_require_contenttypes_0002... OK
101       Applying auth.0007_alter_validators_add_error_messages... OK
102       Applying auth.0008_alter_user_username_max_length... OK
103       Applying auth.0009_alter_user_last_name_max_length... OK
104       Applying auth.0010_alter_group_name_max_length... OK
105       Applying auth.0011_update_proxy_permissions... OK
106       Applying auth.0012_alter_user_first_name_max_length... OK
107       Applying sessions.0001_initial... OK
108
109
110  3)다시 관리자 계정 생성
111      $ python manage.py createsuperuser
112      Username (leave blank to user 'henry') : admin
113      Email address: javaexpert@nate.com
114      Password : ********
115      Password (again) : ********
116      This password is too common.
117      Bypass password validation and create user anyway? [y/N] : y
118      Superuser created successfully.
119
120
121  6. 관리자모드 접속하기
122    1)웹브라우저에서 확인
123      $ python manage.py runserver
124
125         http://localhost:8000/admin
126      Username:
127      Password :
128
129      --> 관리자페이지 확인
130
```