```
Lab5. Django Project Automatic Deployment with Jenkins I
 3
    1. Jenkins Repository의 [Lab1.Django 설치하기.pdf]
    2. Jenkins Repository의 [Lab2.Django Project 시작하기.pdf]의 4번까지 실행
 5
 6
    3. requirements 파일 생성
 7
       1)프로젝트와 동일한 pip와 pip를 이용한 설치 및 패키지의 버전을 맞추기 위해 requirements.txt 파일을 생성한다.
 8
       2)최상위 디렉토리(manage.py 파일이 있는 디렉토리)로 이동하여 현재 가상환경에 설치된 pip 목록을 requrements.txt에 저장
          $ pip freeze > requirements.txt
 9
10
11
       3)requirements.txt 목록 확인
12
         $ cat requirements.txt
13
         asgiref = 3.6.0
         Diango==4.2.1
14
15
         sqlparse==0.4.4
         tzdata==2023.3
16
17
18
19
    4. Local Repository 생성
20
       -상위 디렉토리로 이동
21
         $ cd ..
22
         $ pwd
23
            ~/DjangoHome
24
25
26
            --Windows의 경우
27
                              Lib
               Include
                                        myproject
                                                         Scripts
                                                                        pyvenv.cfg
            --macOS의 경우
28
29
               bin
                            Lib
                                       myproject
                                                         pyvenv.cfg
30
31
       -git 초기화
32
         $ git init
33
            .
-Windows의 경우
               Initialized empty Git repository in D:/DjangoHome/.git/
34
35
               Initialized empty Git repository in /Users/{계정}/DjangoHome/.git/
36
37
38
       -git 필요 환경 설정
          $ git config user.name 'henry'
39
40
          $ git config user.email 'javaexpert@nate.com'
41
42
    5. .gitignore 파일 생성
43
44
       1)Github에 push해야 하기 때문에 gitignore 파일이 필요하다.
45
       2)아래의 사이트에서 생성한다.
46
         https://www.gitignore.io/
47
48
       3)Django, venv, Python 입력 후 [생성] 버튼 클릭
49
          # Created by https://www.toptal.com/developers/gitignore/api/django,venv,python
50
          # Edit at https://www.toptal.com/developers/gitignore?templates=django,venv,python
51
52
          ### Django ###
53
          *.log
54
          *.pot
55
          *.pyc
56
           _pycache_
57
         local settings.py
58
         db.sqlite3
59
         db.sqlite3-journal
60
          media
61
          # If your build process includes running collectstatic, then you probably don't need or want to include staticfiles/
62
63
          # in your Git repository. Update and uncomment the following line accordingly.
64
          # <django-project-name>/staticfiles/
65
          ### Diango.Python Stack ###
66
          # Byte-compiled / optimized / DLL files
67
68
          *.py[cod]
69
          *$py.class
70
71
          # C extensions
72
          *.so
73
74
          # Distribution / packaging
75
          .Python
76
         build/
         develop-eggs/
77
78
         dist/
79
         downloads/
80
         eggs/
81
          .eggs/
82
          lib/
83
         lib64/
84
         parts/
```

```
85
           sdist/
 86
           var/
 87
           wheels/
 88
           share/python-wheels/
           *.egg-info/
 89
 90
           .installed.cfg
 91
           *.egg
           MANIFEST
 92
 93
 94
           # PyInstaller
 95
           # Usually these files are written by a python script from a template
 96
           # before PyInstaller builds the exe, so as to inject date/other infos into it.
 97
 98
           *.spec
 99
100
           # Installer logs
101
           pip-loa.txt
102
           pip-delete-this-directory.txt
103
104
           # Unit test / coverage reports
105
           htmlcov/
106
           .tox/
107
           .nox/
108
           .coverage
109
           .coverage.*
110
           .cache
111
           nosetests.xml
112
           coverage.xml
113
           *.cover
114
           *.py,cover
115
           .hypothesis/
116
           .pytest_cache/
117
           cover/
118
119
           # Translations
120
           *.mo
121
122
           # Django stuff:
123
124
           # Flask stuff:
125
           instance/
126
           .webassets-cache
127
128
           # Scrapy stuff:
129
           .scrapy
130
131
           # Sphinx documentation
132
           docs/_build/
133
134
           # PyBuilder
135
           .pybuilder/
136
           target/
137
138
           # Jupyter Notebook
139
           .ipynb_checkpoints
140
141
           # IPvthon
142
           profile_default/
143
           ipython_config.py
144
145
           # pyenv
146
              For a library or package, you might want to ignore these files since the code is
147
           # intended to run in multiple environments; otherwise, check them in:
148
           # .python-version
149
150
               According to pypa/pipenv#598, it is recommended to include Pipfile.lock in version control.
151
152
               However, in case of collaboration, if having platform-specific dependencies or dependencies
153
               having no cross-platform support, pipenv may install dependencies that don't work, or not
154
               install all needed dependencies.
155
           #Pipfile.lock
156
157
           # poetry
               Similar to Pipfile.lock, it is generally recommended to include poetry.lock in version control.
158
159
               This is especially recommended for binary packages to ensure reproducibility, and is more
160
               commonly ignored for libraries.
161
              https://python-poetry.org/docs/basic-usage/#commit-your-poetrylock-file-to-version-control
162
           #poetry.lock
163
164
           # pdm
              Similar to Pipfile.lock, it is generally recommended to include pdm.lock in version control.
165
166
167
               pdm stores project-wide configurations in .pdm.toml, but it is recommended to not include it
168
              in version control.
```

```
169
              https://pdm.fming.dev/#use-with-ide
170
           .pdm.toml
171
172
           # PEP 582; used by e.g. github.com/David-OConnor/pyflow and github.com/pdm-project/pdm
173
           ___pypackages_
174
175
           # Celery stuff
176
           celerybeat-schedule
177
           celerybeat.pid
178
179
           # SageMath parsed files
180
           *.sage.py
181
182
           # Environments
183
           .env
184
           .venv
185
           env/
186
           venv/
           ENV/
187
188
           env.bak/
189
           venv.bak/
190
191
           # Spyder project settings
192
           .spyderproject
193
           .spyproject
194
195
           # Rope project settings
196
           .ropeproject
197
198
           # mkdocs documentation
199
           /site
200
201
           # mypy
           .mypy_cache/
202
203
           .dmypy.json
204
           dmypy.json
205
206
           # Pyre type checker
207
           .pyre/
208
209
           # pytype static type analyzer
210
           .pytype/
211
212
           # Cython debug symbols
213
           cython_debug/
214
215
           # PyCharm
           # JetBrains specific template is maintained in a separate JetBrains.gitignore that can
216
217
           # be found at https://github.com/github/gitignore/blob/main/Global/JetBrains.gitignore
218
             and can be added to the global gitignore or merged into this file. For a more nuclear
219
           # option (not recommended) you can uncomment the following to ignore the entire idea folder.
220
           #.idea/
221
222
           ### Python ###
223
           # Byte-compiled / optimized / DLL files
224
225
           # C extensions
226
227
           # Distribution / packaging
228
229
           # PyInstaller
230
           # Usually these files are written by a python script from a template
231
           # before PyInstaller builds the exe, so as to inject date/other infos into it.
232
           # Installer logs
233
234
235
           # Unit test / coverage reports
236
237
           # Translations
238
239
           # Django stuff:
240
241
           # Flask stuff:
242
243
           # Scrapy stuff:
244
245
           # Sphinx documentation
246
247
           # PyBuilder
248
249
           # Jupyter Notebook
250
251
           # IPython
252
```

```
253
           # pyenv
254
               For a library or package, you might want to ignore these files since the code is
255
               intended to run in multiple environments; otherwise, check them in:
256
           # .python-version
257
258
259
              According to pypa/pipenv#598, it is recommended to include Pipfile.lock in version control.
260
               However, in case of collaboration, if having platform-specific dependencies or dependencies
261
               having no cross-platform support, pipenv may install dependencies that don't work, or not
262
               install all needed dependencies.
263
264
           # poetry
265
               Similar to Pipfile.lock, it is generally recommended to include poetry.lock in version control.
               This is especially recommended for binary packages to ensure reproducibility, and is more
266
267
               commonly ignored for libraries.
268
               https://python-poetry.org/docs/basic-usage/#commit-your-poetrylock-file-to-version-control
269
270
               Similar to Pipfile.lock, it is generally recommended to include pdm.lock in version control.
271
272
           #
               pdm stores project-wide configurations in .pdm.toml, but it is recommended to not include it
273
               in version control.
274
               https://pdm.fming.dev/#use-with-ide
275
276
           # PEP 582; used by e.g. github.com/David-OConnor/pyflow and github.com/pdm-project/pdm
277
278
           # Celery stuff
279
280
           # SageMath parsed files
281
282
           # Environments
283
284
           # Spyder project settings
285
286
           # Rope project settings
287
288
           # mkdocs documentation
289
290
           # mypy
291
292
           # Pyre type checker
293
294
           # pytype static type analyzer
295
296
           # Cython debug symbols
297
298
           # PyCharm
299
           # JetBrains specific template is maintained in a separate JetBrains.gitignore that can
300
           # be found at <a href="https://github.com/github/gitignore/blob/main/Global/JetBrains.gitignore">https://github.com/github/gitignore/blob/main/Global/JetBrains.gitignore</a>
301
           # and can be added to the global gitignore or merged into this file. For a more nuclear
           # option (not recommended) you can uncomment the following to ignore the entire idea folder.
302
303
304
           ### Python Patch ###
305
           # Poetry local configuration file - https://python-poetry.org/docs/configuration/#local-configuration
306
           poetry.toml
307
308
           # ruff
           .ruff_cache/
309
310
311
           # LSP config files
312
           pyrightconfig.json
313
314
           ### venv ###
315
           # Virtualenv
316
           # http://iamzed.com/2009/05/07/a-primer-on-virtualenv/
317
           [Bb]in
318
           [Ii]nclude
319
           [LI]ib
320
           [LI]ib64
321
           [LI]ocal
322
           [Ss]cripts
323
           pyvenv.cfq
324
           pip-selfcheck.json
325
326
           # End of https://www.toptal.com/developers/gitignore/api/django,venv,python
327
328
        4)생성한 gitignore를 .gitignore 파일에 저장
329
           $ nano .gitignore
330
        5)Commit 및 Push 하기
331
332
           -현재 디렉토리 확인
333
              $ pwd
334
              ~/DjangoHome
335
336
              $ Is
```

```
337
                 *.git 디렉토리는 보이지 않는 것이 정상
                 --Window의 경우
338
                              Lib
339
                   Include
                                       myproject
                                                        Scripts
                                                                      .gitignore
                                                                                      pyvenv.cfg
                 --macOS의 경우
340
                                 Lib
341
                    bin
                                             myproject
                                                                .gitignore
                                                                               pyvenv.cfq
342
           -git add
343
344
              $ git add .
345
346
           -git commit
347
              $ git commit -m 'Django Project Create'
348
349
           -Github에서 DjangoHome Repository 생성
              --README.md 생성 하지 않음.
350
351
              --Public
352
353
           -Github에 remote 설정하고 push 하기
354
              $ git remote add origin https://github.com/gitinstructor/DjangoHome.git
355
              $ git branch -M main
356
              $ git push -u origin main
357
              Enumerating objects: 17, done.
358
              Counting objects: 100% (17/17), done.
359
              Delta compression using up to 8 threads
              Compressing objects: 100% (16/16), done.
360
361
              Writing objects: 100% (17/17), 5.25 KiB | 2.62 MiB/s, done.
              Total 17 (delta 3), reused 0 (delta 0), pack-reused 0
362
363
              remote: Resolving deltas: 100% (3/3), done.
364
              To <a href="https://github.com/gitinstructor/DjangoHome.git">https://github.com/gitinstructor/DjangoHome.git</a>
365
                 [new branch]
                                  main -> main
              branch 'main' set up to track 'origin/main'.
366
367
        6)Github에서 확인
368
369
           https://github.com/{Github계정}/DjangoHome
370
              -myproject
371
              -.gitignore
372
373
     6. EC2 Instance에 Tabby로 접속하기
374
375
     7. Github Repository Clone 및 몇 가지 설정하기
376
        1)Github의 DjangoHome Repository Clone 하기
377
           $ git clone <a href="https://github.com/gitinstructor/DjangoHome.git">https://github.com/gitinstructor/DjangoHome.git</a>
378
           Cloning into 'DjangoHome'...
379
           Username for 'https://github.com': gitinstructor
380
           Password for 'https://gitinstructor@github.com':
                                                               <----Personal Access Token
381
           remote: Enumerating objects: 12, done.
382
           remote: Counting objects: 100% (12/12), done.
           remote: Compressing objects: 100% (10/10), done.
383
384
           remote: Total 12 (delta 1), reused 12 (delta 1), pack-reused 0
385
           Receiving objects: 100% (12/12), 4.83 KiB | 706.00 KiB/s, done.
386
           Resolving deltas: 100% (1/1), done.
387
388
        2)몇 가지 설정하기
389
           -날짜 시간 설정
390
              $ sudo timedatectl set-timezone 'Asia/Seoul'
391
392
           -Ubuntu Update
393
              $ sudo apt-get update
394
              $ sudo apt-get upgrade -y
395
              $ sudo apt-get dist-upgrade
396
397
           -Nginx 설치
398
              $ sudo apt install -y nginx
399
400
           -pip upgrade
401
              $ python --version
402
              $ pip list
403
              $ python -m pip install --upgrade pip
404
405
            -Green unicorn package 설치
406
              $ pip instasll gunicorn
407
              Defaulting to user installation because normal site-packages is not writeable
408
              Collecting gunicorn
409
               Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
                                                   79.5/79.5 kB 2.5 MB/s eta 0:00:00
410
411
              Requirement already satisfied: setuptools>=3.0 in /usr/lib/python3/dist-packages (from gunicorn) (59.6.0)
412
              Installing collected packages: gunicorn
413
              Successfully installed gunicorn-20.1.0
414
415
        3)가상환경 생성 후 해당 프로젝트로 이동
416
           -가상환경 생성
417
              $ virtualenv DjangoHome
418
              created virtual environment CPython3.10.6.final.0-64 in 501ms
419
               creator CPython3Posix(dest=/home/ubuntu/DjangoHome, clear=False, no vcs ignore=False, global=False)
420
               seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy,
```

```
app_data_dir=/home/ubuntu/.local/share/virtualenv)
421
                          added seed packages: pip==23.1.2, setuptools==67.6.1, wheel==0.40.0
                        activators \ Bash Activator, CShell Activator, Fish Activator, Nushell Activator, Power Shell Activator, Python Activator, Power Shell 
422
423
424
                 -가상환경 활성화하기
425
                      $ source ./DjangoHome/bin/activate
426
427
                  -해당 디렉토리로 이동하기
428
                      $ cd DjangoHome
429
430
             4)git 설정
431
                 $ Is -al
432
                  *.git은 보이지 않을 수 있음.
                                                                                                                   .gitignore
433
                               lib
                                                                                                  .git
                                                                      pvvenv.cfa
                  bin
                                           myproject
434
435
                  $ git config user.name 'henry'
                 $ git config user.email 'javaexpert@nate.com'
436
437
438
439
             5)필요 패키지 설치
440
                 $ cd myproject
441
442
                  $ Is
443
                 manage.py
                                               myproject
                                                                            requirements.txt
444
445
                  $ pip install -r requirements.txt
446
                  Collecting asgiref==3.6.0 (from -r requirements.txt (line 1))
447
                    Using cached asgiref-3.6.0-py3-none-any.whl (23 kB)
448
                  Collecting Django==4.2.1 (from -r requirements.txt (line 2))
449
                    Using cached Django-4.2.1-py3-none-any.whl (8.0 MB)
450
                  Collecting sqlparse==0.4.4 (from -r requirements.txt (line 3))
451
                    Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
452
                  Collecting tzdata==2023.3 (from -r requirements.txt (line 4))
453
                    Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
454
                  Installing collected packages: tzdata, sqlparse, asgiref, Django
455
                 Successfully installed Django-4.2.1 asgiref-3.6.0 sqlparse-0.4.4 tzdata-2023.3
456
457
             6)Django Project 시작하기
458
                  $ python manage.py runserver 0:8000
459
                  Watching for file changes with StatReloader
460
                  Performing system checks...
461
462
                 System check identified no issues (0 silenced).
463
464
                 You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin,
                  auth, contenttypes, sessions.
465
                  Run 'python manage.py migrate' to apply them.
                  May 17, 2023 - 05:07:24
466
467
                  Django version 4.2.1, using settings 'myproject.settings'
                  Starting development server at http://127.0.0.1:8000/
468
469
                  Quit the server with CONTROL-C.
470
471
             7)Web Browser로 확인하기
472
                 http://ec2-43-201-250-26.ap-northeast-2.compute.amazonaws.com:8000
473
474
             8)기본테이블 생성하기
475
                  $ python manage.py migrate
476
                  Operations to perform:
477
                    Apply all migrations: admin, auth, contenttypes, sessions
478
                  Running migrations:
479
                    Applying contenttypes.0001_initial... OK
                    Applying auth.0001 initial... OK
480
481
                    Applying admin.0001_initial... OK
                   Applying admin.0002_logentry_remove_auto_add... OK Applying admin.0003_logentry_add_action_flag_choices... OK
482
483
                    Applying contenttypes.0002 remove content type name... OK
484
485
                    Applying auth.0002_alter_permission_name_max_length... OK
486
                    Applying auth.0003_alter_user_email_max_length... OK
487
                    Applying auth.0004_alter_user_username_opts... OK
488
                    Applying auth.0005_alter_user_last_login_null... OK
489
                    Applying auth.0006_require_contenttypes_0002... OK
                    Applying auth.0007_alter_validators_add_error_messages... OK
490
                    Applying auth.0008 alter user username max length... OK
491
                    Applying auth.0009_alter_user_last_name_max_length... OK
492
493
                    Applying auth.0010_alter_group_name_max_length... OK
494
                    Applying auth.0011_update_proxy_permissions... OK
495
                    Applying auth.0012_alter_user_first_name_max_length... OK
496
                   Applying sessions.0001_initial... OK
497
498
             9)기본테이블 확인하기
499
                  $ Is
500
                  db.sqlite3
                                           manage.py
                                                                        myproject
                                                                                                  requirements.txt
501
```

502

10)관리자 계정 생성

```
503
           $ python manage.py createsuperuser
504
           Username (leave blank to user 'ubuntu'): admin
           Email address: javaexpert@nate.com
505
           Password: *******
506
          Password (again): ******
507
508
           This password is too common.
           Bypass password validation and create user anyway? [y/N]: y
509
510
          Superuser created successfully.
511
512
513
     8. 관리자모드 접속하기
514
        -웹브라우저에서 확인
515
          $ python manage.py runserver 0:8000
516
             http://{EC2 퍼블릭 IPv4 DNS}}:8000/admin
517
             Username: admin
518
519
             Password:
520
521
522
     9. Django Project에 main App 생성하기
523
        1)manage.py가 있는 최상위 디렉토리에서 다음과 같이 main App을 생성한다.
524
           $ python manage.py startapp main
525
526
        2)myproject > settings.py 수정하기
527
528
          INSTALLED_APPS = [
529
             'main',
                      <----여기
             'django.contrib.admin',
530
531
             'django.contrib.auth',
532
             'django.contrib.contenttypes',
533
             'django.contrib.sessions',
534
             'django.contrib.messages',
535
             'django.contrib.staticfiles',
          ]
536
537
538
          LANGUAGE_CODE = 'ko-kr'
539
540
          TIME_ZONE = 'Asia/Seoul'
541
                                     <---TimeZone 설정
542
543
544
        3)index.html 파일 생성하기
545
           -새로 생성된 main 디렉토리로 이동
546
             $ cd ..
547
             $ cd main
548
549
           -templates 디렉토리 생성 후 이동
550
             $ mkdir templates
551
             $ cd templates
552
553
           -main 디렉토리 생성 후 이동
554
             $ mkdir main
555
             $ cd main
556
           -index.html 파일 생성
557
558
             $ nano index.html
559
             <!DOCTYPE html>
560
             <html lang="en">
561
             <head>
                <meta charset="UTF-8">
562
563
                <meta http-equiv="X-UA-Compatible" content="IE=edge">
                <meta name="viewport" content="width=device-width, initial-scale=1.0">
564
565
                <title>Welcome to My Django Project</title>
566
             </head>
567
             <body>
                <h1>Hello Diango Project</h1>
568
             </body>
569
570
             </html>
571
572
        4)main > views.py 수정하기
573
           $ nano views.py
574
             from django.shortcuts import render
575
             # Create your views here.
576
577
             def index(request):
578
                return render(request, "main/index.html")
579
        5)myproject > urls.py 수정하기
580
581
          $ nano urls.py
582
583
          URL configuration for myproject project.
584
585
          The 'urlpatterns' list routes URLs to views. For more information please see:
586
             https://docs.djangoproject.com/en/4.2/topics/http/urls/
```

```
588
           Function views
              1. Add an import: from my_app import views
589
590
             2. Add a URL to urlpatterns: path(", views.home, name='home')
591
           Class-based views
592
             1. Add an import: from other_app.views import Home
             2. Add a URL to urlpatterns: path(", Home.as_view(), name='home')
593
594
           Including another URLconf
595
             1. Import the include() function: from django.urls import include, path
           2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
596
597
598
           from django.contrib import admin
599
           from django.urls import path
600
           from main import views as main_views
                                                        <---여기 수정
601
602
           urlpatterns = [
             path(", main_views.index, name='index'), <---여기 수정
603
604
             path('admin/', admin.site.urls),
605
606
607
        6)기존 Model들을 migrate하고, Django Project 시작하기
608
           $ python manage.py makemigrations && python manage.py migrate
609
           No changes detected
610
           Operations to perform:
            Apply all migrations: admin, auth, contenttypes, sessions
611
           Running migrations:
612
613
            No migrations to apply.
614
615
           $ python manage.py runserver 0:8000
616
617
        7)Web Browser를 통해 확인하기
618
           http://{EC2 퍼블릭 IPv4 DNS}}:8000
619
620
621
     10. 변경사항 Github에 push
622
        $ git status
623
           On branch main
624
           Your branch is up to date with 'origin/main'.
625
626
           Changes not staged for commit:
            (use "git add <file>..." to update what will be committed)
627
628
            (use "git restore <file>..." to discard changes in working directory)
629
                modified: myproject/myproject/settings.py
630
                modified: myproject/myproject/urls.py
631
632
           Untracked files:
633
            (use "git add <file>..." to include in what will be committed)
634
                myproject/main/
635
           no changes added to commit (use "git add" and/or "git commit -a")
636
637
638
        $ git add .
639
        $ git status
640
           On branch main
641
           Your branch is up to date with 'origin/main'.
642
643
           Changes to be committed:
644
            (use "git restore --staged <file>..." to unstage)
                new file: myproject/main/__init__.py
645
                new file: myproject/main/admin.py
646
647
                new file: myproject/main/apps.py
                new file: myproject/main/migrations/__init__.py
648
649
                new file: myproject/main/models.py
650
                new file: myproject/main/templates/main/index.html
651
                new file: myproject/main/tests.py
652
                new file: myproject/main/views.py
                modified: myproject/myproject/settings.py
653
654
                modified: myproject/myproject/urls.py
655
656
        $ git commit -m 'Add main App to Django Project'
657
           [main f11b7f7] Add main App to Django Project
658
           10 files changed, 37 insertions(+), 2 deletions(-)
659
           create mode 100644 myproject/main/ init .py
660
           create mode 100644 myproject/main/admin.py
661
           create mode 100644 myproject/main/apps.py
           create mode 100644 myproject/main/migrations/__init__.py
662
663
           create mode 100644 myproject/main/models.py
           create mode 100644 myproject/main/templates/main/index.html
664
           create mode 100644 myproject/main/tests.py
665
           create mode 100644 myproject/main/views.py
666
667
668
        $ git push origin main
669
           Username for 'https://github.com': gitinstructor
670
           Password for 'https://gitinstructor@github.com':
```

587

Examples:

```
671
            Enumerating objects: 21, done.
            Counting objects: 100% (21/21), done.
672
            Compressing objects: 100% (13/13), done.
673
674
            Writing objects: 100% (16/16), 1.82 KiB | 930.00 KiB/s, done.
            Total 16 (delta 2), reused 0 (delta 0), pack-reused 0
675
676
            remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
677
            To <a href="https://github.com/gitinstructor/DjangoHome.git">https://github.com/gitinstructor/DjangoHome.git</a>
              cf69166..f11b7f7 main -> main
678
679
680
681
      11. uWSGI 서버 연결하기
682
         1)Django repository의 [Lab.uWSGI 서버 연결하기.pdf]를 참조
683
684
         2)성공하면 Github에 Push한다.
685
            $ git status
686
               On branch main
687
               Your branch is up to date with 'origin/main'.
688
689
               Untracked files:
                (use "git add <file>..." to include in what will be committed)
690
691
                     myproject/.config/
692
693
               nothing added to commit but untracked files present (use "git add" to track)
694
695
            $ git add .
696
697
            $ git status
698
               On branch main
699
               Your branch is up to date with 'origin/main'.
700
701
               Changes to be committed:
                 (use "git restore --staged <file>..." to unstage)
702
703
                     new file: myproject/.config/uwsgi/myproject.ini
704
705
            $ git commit -m "Add myproject.ini File"
               [main 6d34994] Add myproject.ini File
706
707
                1 file changed, 16 insertions(+)
708
                create mode 100644 myproject/.config/uwsgi/myproject.ini
709
710
            $ git push origin main
               Username for 'https://github.com': gitinstructor
711
712
               Password for 'https://gitinstructor@github.com':
               Enumerating objects: 8, done.
713
714
               Counting objects: 100% (8/8), done.
               Compressing objects: 100% (4/4), done.
715
               Writing objects: 100% (6/6), 646 bytes | 646.00 KiB/s, done.
716
               Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 remote: Resolving deltas: 100% (1/1), completed with 1 local object.
717
718
719
               To <a href="https://github.com/gitinstructor/DjangoHome.git">https://github.com/gitinstructor/DjangoHome.git</a>
                 f11b7f7..6d34994 main -> main
720
721
722
723
      12. nginx 연결하기
724
         1)Django repository의 [Lab.nginx 연결하기.pdf]를 참조
```