

TAE Coding CS32 Unit 1: Hello Django

1.1 unix command

command	meaning
pwd	present working directory
cd	change directory
ls	list files

1.2. django project

start a django project called mysite

```
$ django-admin startproject mysite
```

django project structure

```
* mysite
- manage.py      # collection of commands; startapp, runserver
- mysite         # project setting directory
  - settings.py  # project settings
  - urls.py       # project urls
  - wsgi.py       # web server gateway interface
```

1.3. django app

create a django app called hello

```
$ python manage.py startapp hello
```

django app structure

```
* hello
- urls.py        # app urls
- views.py       # view interface
- models.py      # app models
```

```
- admin.py      # app admin
- tests.py      # app tests
```

Write a view function

- a function called helloTaehee that return "Hello Taehee !"
- hello.views.py

```
from django.http import HttpRequest, HttpResponse

def helloTaehee(request: HttpRequest):
    return HttpResponse("Hello Taehee !")
```

Url mapping

- map http://localhost:8000/taehee to helloTaehee
- hello.urls.py

```
from django.urls import path
from . import views

urlpatterns = [
    path("taehee", views.helloTaehee)
]
```

add app urls

- add hello app urls to project urls
- mysite.urls.py

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path("admin/", admin.site.urls),
    path("", include('hello.urls'))
]
```

Write a view function

- called sayhi that take a parameter named 'name' and it return "Hi {name}"

- s1.views.py

```
def sayhi(request:HttpRequest):  
    name = request.GET.get('name')  
  
    if name == None:  
        name = 'unknown'  
    return HttpResponse(f'Hi {name}')
```

Write a url pattern

- map url: http://localhost/s1/sayhi?name=taehee to sayhi
- s1.urls.py

```
from django.urls import path  
from . import views  
  
urlpatterns = [  
    ...  
    path("sayhi", views.sayhi)  
]
```