

Hello django

1.1 new project

- django Setup

```
pip install django
```

- create a project

```
django-admin startproject mysite  
python manage.py runserver
```

- **init.py**: python package
- **manage.py**: collection of commands
- **settings.py**: settings
- **urls.py**: route
- **wsgi.py**:
- **project_name**:

1.2 new app: hello

```
python manag.py startapp hello
```

- hello.view

```
from django.http import HttpResponse  
  
def index(request):  
    retrn HttpResponse("Hello")
```

- hello.urls

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

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

- `mysite.urls`

```
from django.contrib import admin  
from django.urls import include, path  
  
urlpatterns = [  
    path("", include("hello.urls")),  
    path("admin", admin.site.urls)  
]
```

Examples

- write a service end point that return your name.
 - `http://hostname/hello/myname`
- write a service end point that return today.
 - `http://hostname/hello/today`
- write a service end point that return tomorrow.
 - `http://hostname/hello/tomorrow`
- write a service end point that return your school
 - `http://hostname/hello/myschool`

1.3 Query Parameter: s1

```
def sayhi(request:HttpRequest):  
    name = request.GET.get('name')  
    if name == None:  
        name = "Unknown"  
  
    return HttpResponse("Hi " + name)
```

Examples

- write a service end point that take a name and return "Hi" to the name.
 - `http://hostname/s1/sayhi?name=taehee`
 - output: "Hi Taehee"
- write a service end point that take two numbers and return the sum of the numbers.

- `http://hostname/s1/addtwo?a=5&b=7`
- write a service end point that return the area of a given rectangle.
 - `http://hostname/s1/rectarea?length=5&width=10`
- write a service end point that return the area of a given circle.
 - `http://hostname/s1/circlearea?radius=10`