

Creating a Simple Web Page



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Overview



Create a Django app

Add a view function

Assign a URL to the view function

Run and view the page

How does Django serve our page?

Problems and pitfalls



Demo



Create a web page

- Create a Django app
- Add a view function
- Assign a URL
- Run and view the page



Demo



- Control flow
- URL mapping
- Debugging Django



Control flow is dictated by incoming HTTP Requests

A view function is only called if its URL is requested (visited in browser)



```
python manage.py startapp appname
```

```
# in settings.py
```

```
INSTALLED_APPS = [ ..., "appname" ]
```

Adding a New App

The `manage.py` script is located inside the Django project

`cd` into the right folder before running it



Django Apps



Python package

Contains models, views, templates, urls

Most Django projects contain several apps

Apps can be reused between projects

Keep apps small and simple

- Should have a clear, simple purpose



Adding a Page

views.py

```
from django.http import HttpResponseRedirect

def welcome(request):
    return HttpResponseRedirect("Welcome!")
```

urls.py

```
from website.views import welcome

urlpatterns = [
    path('', welcome),
    ...
]
```


Web Browser



127.0.0.1:8000/

Welcome

Welcome...

HTTP GET /card

Server

```
# Find mapping in urls.py  
path('', welcome),
```

```
def welcome(request):  
    return HttpResponse("...")
```



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