



# Django

Static files and Webpages



# Deploying Static Files

Websites generally need to serve additional files such as images, JavaScript, or CSS. In Django, we refer to these files as “static files.”

1. Add the following parameters to settings.py

1. `STATIC_URL` -> uri path that servers the static
2. `STATIC_ROOT` -> directory where all the static has to be collected
3. `STATICFILES_DIRS` -> list of directories from where static files has to be collected

2. `python manage.py collectstatic` -> collects all static files

3. Run the server and see if the web page is loading without error



## Projects vs. apps

- An app is a web application that does something – e.g., chat, payment etc
- A project is a collection of configuration and apps for a particular website.
- A project can contain multiple apps.
- An app can be in multiple projects.



## Create an app

```
python manage.py startapp <appname>
```

1. A folder in app name will be created with necessary files.
2. Create urls.py in the app folder (best practice)



## Project level configuration for app

1. Include the app in settings.py->INSTALLED\_APPS (eg: webpages.app.WebpagesConfig)
2. Include app urls in urls.py



## Routing for app

1. Update routes in `urls.py`
2. Add corresponding functions in `views.py` (keep dummy functions as of now)
3. Run server and check if route is happening



## Add webpages

1. Create <app> folder in templates eg: webpages
2. Add necessary webpages to it
3. Update the function in views to render the corresponding webpages



# Templating web pages

1. Create a base.html and extend other webpages from the base.html
2. Run the server and ensure everything is working fine





# Update the project with proper files

Prerequisite : All static files and web pages should be ready

1. Copy static files to the project static folder and run the collect static command.
2. Replace base.html and load static
3. Change source url for all static files



# Making the project modular

1. Identify individual components like header, navigation bar etc
2. Place it in separate file
3. Include it in the main file