

# django

3<sup>rd</sup> SESSION

# What will be covered?

- Static files
- Static assets
- Working with forms
  - PUT
  - DELETE
  - Search
- Sessions
- Cookies
- Working with APIs (Application Programming Interface)

# Static files / Static assets

## Configuring static files

1. Make sure that **django.contrib.staticfiles** is included in your INSTALLED\_APPS.
2. In your settings file, define STATIC\_URL, for example:

```
STATIC_URL = '/static/'
```

3. In your templates, use the static template tag to build the URL for the given relative path using the configured STATICFILES\_STORAGE.

```
{% load static %}  

```

4. Store your static files in a folder called **static** in your app. For example **my\_app/static/my\_app/example.jpg**.

# Static files / Static assets

Your project will probably also have static assets that aren't tied to a particular app. In addition to using a **static/** directory inside your apps, you can define a list of directories (**STATICFILES\_DIRS**) in your settings file where Django will also look for static files. For example:

```
STATICFILES_DIRS = [  
    BASE_DIR / "static",  
    '/var/www/static/',  
]
```

# Static files / Static assets

## Serving static files during development

If you use `django.contrib.staticfiles` as explained above, `runserver` will do this automatically when `DEBUG` is set to `True`. If you don't have `django.contrib.staticfiles` in `INSTALLED_APPS`, you can still manually serve static files using the `django.views.static.serve()` view.

This is not suitable for production use! For some common deployment strategies, see [Deploying static files](#).

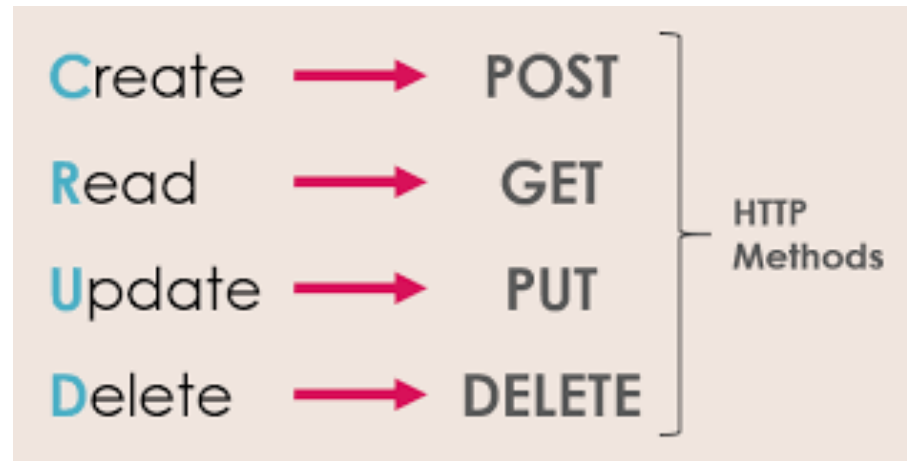
For example, if your `STATIC_URL` is defined as `/static/`, you can do this by adding the following snippet to your `urls.py`:

```
from django.conf import settings
from django.conf.urls.static import static

urlpatterns = [
    # ... the rest of your URLconf goes here ...
] + static(settings.STATIC_URL, document_root=settings.STATIC_ROOT)
```

# Working with forms

- GET, POST, PUT, DELETE
- Search



# Sessions

## How to use sessions

Django provides full support for anonymous sessions. The session framework lets you store and retrieve arbitrary data on a per-site-visitor basis. It stores data on the server side and abstracts the sending and receiving of cookies. Cookies contain a session ID – not the data itself (unless you're using the cookie based backend).

## Enabling sessions

Sessions are implemented via a piece of middleware.

To enable session functionality, do the following:

- Edit the MIDDLEWARE setting and make sure it contains `'django.contrib.sessions.middleware.SessionMiddleware'`. The default `settings.py` created by `django-admin startproject` has `SessionMiddleware` activated.

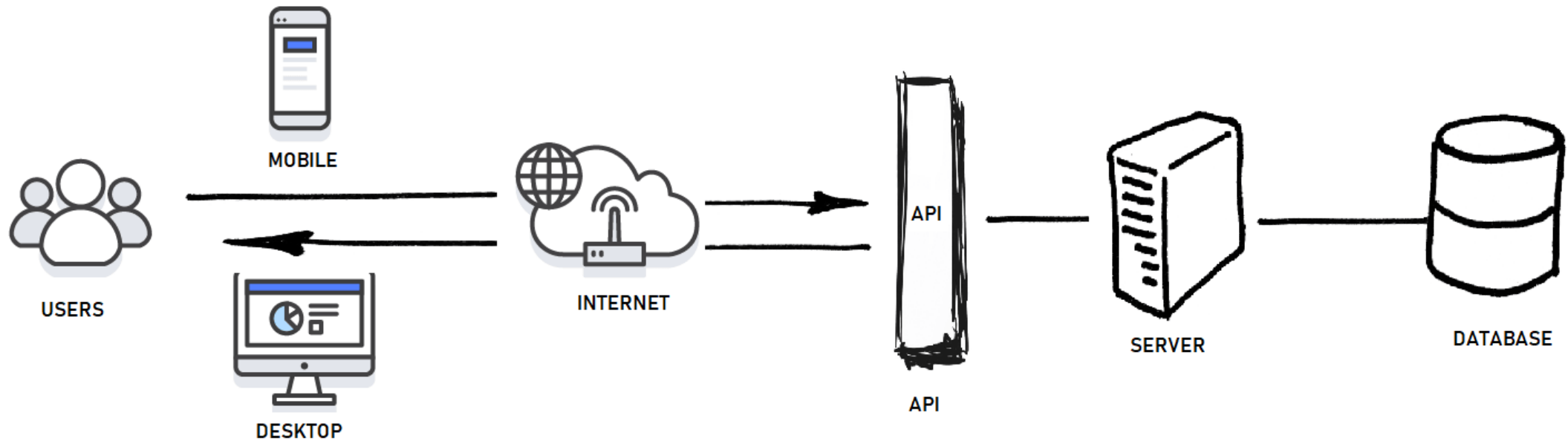
If you don't want to use sessions, you might as well remove the `SessionMiddleware` line from MIDDLEWARE and `'django.contrib.sessions'` from your INSTALLED\_APPS. It'll save you a small bit of overhead.

# Cookies

- Cookies are saved on the browser (clients computer)
- Django
  - Create response
  - Create cookies
- How we can get cookie values (through their keys)
  - `request.cookies.get('key')`

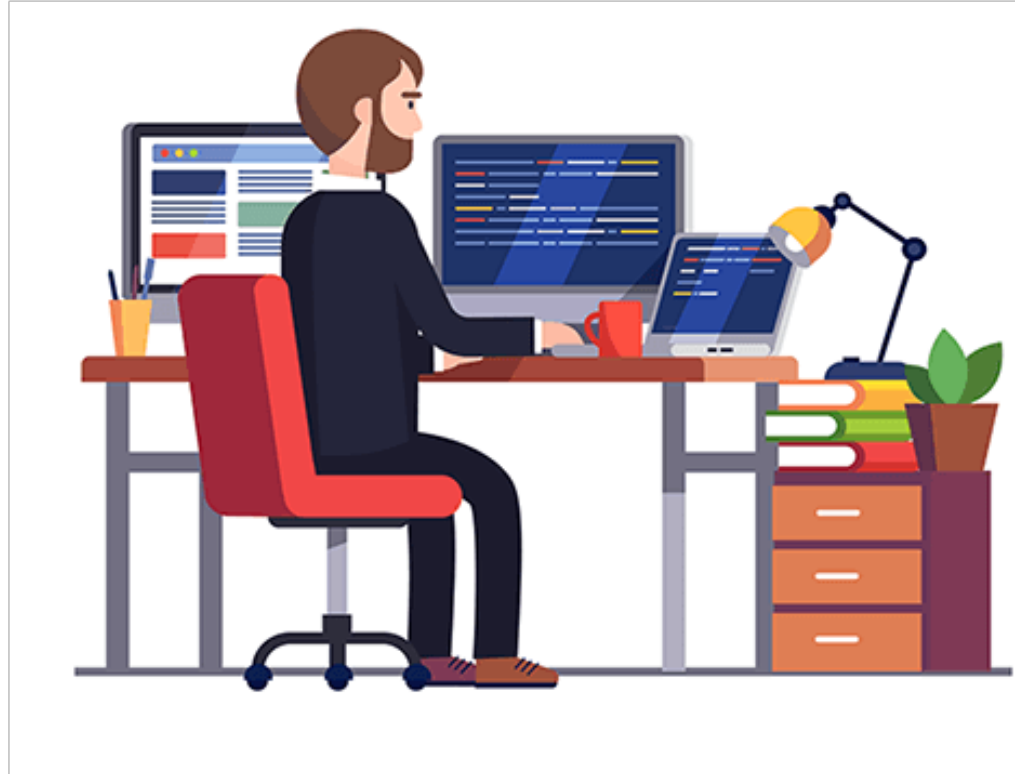


# Working with APIs



We can create APIs with: [Django REST Framework](#), [FastAPI](#), etc.

# Let's code



# QUESTIONS

