# Django 4: Template Inheritance, Static Files & CDNs

**IN608: Intermediate Application Development Concepts** 

### **Last Session's Content**

- Forms
- Class-based views

## Today's Content

- Template inheritance
- Static files
- CDNs (Content delivery networks)

- In the polls/templates/polls/ directory, create an.html file called base.html
- Allows you to use a base "skeleton" template
- Defines blocks that a child template can override
- The child template's job is to fill the empty blocks with content

- polls/templates/polls/index.html
- {% extends %} must be the first template tag

- polls/templates/polls/detail.html
- Override the title block

polls/templates/polls/results.html

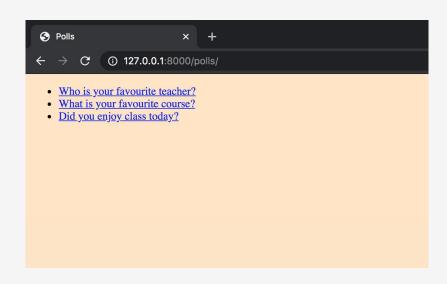
- In the polls/ directory, create a directory called static/
- In the static/ directory, create a directory called polls/
- In the polls/ directory, create a directory called css/
- In the css/ directory create a .css file called style
- App structure:

```
polls/
    __init__.py
    admin.py
    apps.py
    migrations/
        __init__.py
    models.pv
    static/
        polls/
            css/
                stvle.css
    templates/
        polls/
            base.html
            detail.html
            index.html
            results.html
    tests.py
    urls.py
    views.py
```

- polls/templates/polls/base.html
- {% load static %} tell the template engine to use the files in the static folder in this template
- {% static %} generates the absolute URL
- Resource: <a href="https://docs.djangoproject.com/en/3.0/howto/static-files/">https://docs.djangoproject.com/en/3.0/howto/static-files/</a>

• polls/static/polls/style.css

```
body {
    background-color: #FFE4C4; /* bisque */
}
```



# **CDNs**

#### **CDNs**

- Content delivery networks
- Distributed network of servers designed to load your site as quickly as possible
- Allows for quick transfer of assets, i.e., HTML, JS, CSS, image & video files
- CDN providers like AmazonCloudFront, Azure CDN & CloudFlare have an infrastructure of thousands of servers
  - Improved site load times
  - Reduced bandwidth costs
  - Increased content availability & redundancy
  - Improved site security
- Bootstrap CDN <a href="https://getbootstrap.com/docs/4.0/getting-started/download/#bootstrap.cdn">https://getbootstrap.com/docs/4.0/getting-started/download/#bootstrap.cdn</a>
- TailWind CDN <a href="https://tailwindcss.com/docs/installation/#using-tailwind-via-cdn">https://tailwindcss.com/docs/installation/#using-tailwind-via-cdn</a>

## Practical

## **Programming Activity**

- Checkout to master git checkout master
- Create a new branch called 10-practical git checkout -b 10-practical
- Open the file 10-practical.pdf and work on the tasks described