Django 4: Template Inheritance, Static Files & CDNs

IN608: Intermediate Application Development Concepts

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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 a base "skeleton" template
- Defines blocks that 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

polls/templates/polls/results.html

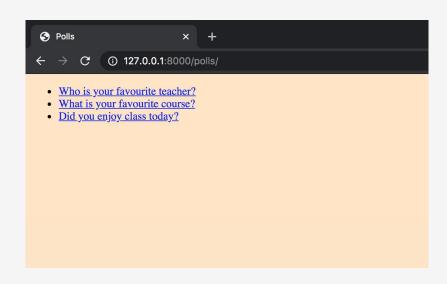
- In the polls/ directory, create a directory called static/
- In the static/ directory, create a directory called polls/
- In the polls/ directory, create a .css file called style
- App structure:

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

- polls/templates/polls/base.html
- {% load static %} generates the absolute URL
- Resource: https://docs.djangoproject.com/en/3.0/howto/static-files/

• 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
- Advantages:
 - Improved site load times
 - Reduced bandwidth costs
 - Increased content availability & redundancy
 - Improved site security
- Bootstrap CDN https://getbootstrap.com/docs/4.0/getting-started/download/#bootstrapcdn
- TailWind CDN https://tailwindcss.com/docs/installation/#using-tailwind-via-cdn

Practical

Programming Activity

- Checkout to master git checkout master
- Create a new branch called 10-practical git checkout -b 10-practical
- Copy 10-practical.ipynb from the course materials repository into your practicals repository
- Open up the Anaconda Prompt (it should be install on all lab computers) & cd to your practicals repository
- Run the following command: jupyter notebook