Django 4: Template Inheritance & Static Files

IN608: Intermediate Application Development Concepts

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Last Session's Content

- Forms
- Class-based views

Today's Content

- Template inheritance
- Static files

Template Inheritance

Template Inheritance

- 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

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>{% block title %}Polls{% endblock %}</title>
</head>
<body>
    <div id="content">
        {% block content %}{% endblock %}
    </div>
</body>
</html>
```

Template Inheritance

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

```
{% extends "polls/base.html" %}

{% block content %}
{% if latest_question_list %}
    <ul>
    {% for question in latest_question_list %}
        <li><a href="{% url 'polls:detail' question.id %}">{{ question }}</a></li>
    {% endfor %}
    </ul>
{% else %}
    <p>No polls are available.</p>
{% endif %}
{% endblock %}
```

Template Inheritance

- ## polls/templates/polls/detail.html

```
{% extends "polls/base.html" %}

{% block title %}Polls | Detail{% endblock %}

{% block content %}
<h1>{{ question }}</h1>

{% if error_message %}<p><strong>{{ error_message }}</strong></p>{% endif %}

<form action="{% url 'polls:vote' question.id %}" method="post">
{% csrf_token %}
{% for choice in question.choice_set.all %}
    <input type="radio" name="choice" id="choice{{ forloop.counter }}" value="{{ choice.id }}">
    <label for="choice{{ forloop.counter }}">{{ choice }}</label><br>
{% endfor %}
<input type="submit" value="Vote">
</form>
{% endblock %}
```

Template Inheritance

- `polls/templates/polls/results.html`

```
{% extends "polls/base.html" %}

{% block title %}Polls | Results{% endblock %}

{% block content %}
<h1>{{ question }}</h1>

<ul>
{% for choice in question.choice_set.all %}
    <li>{{ choice }} -- {{ choice.votes }} vote{{ choice.votes|pluralize }}</li>
{% endfor %}
</ul>

<a href="{% url 'polls:detail' question.id %}">Vote again?</a>
{% endblock %}
```

Static Files

Static Files

- 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
```

Static Files

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

```
{% load static %}

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" type="text/css" href="{% static 'polls/style.css' %}">
    <title>{% block title %}Polls{% endblock %}</title>
</head>
<body>
    <div id="content">
        {% block content %}{% endblock %}
    </div>
</body>
</html>
```

Static Files

- `polls/static/polls/style.css`

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