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Templates and Static Files



Django template engine basics.

- For our current project, we will create a single template directory that will be spread over the entire project for simplicity. App-level templates are generally used in big projects or in case we want to provide a different layout to each component of our webpage.
- **Configuration**
- **settings.py:** Django Templates can be configured in app_name/settings.py,
- We will create our Templates folder in “BASE_DIR/’templates’ “

Django template engine basics.


```
TEMPLATES = [
    {
        # Template backend to be used, For example Jinja
        'BACKEND': 'django.template.backends.django.DjangoTemplates',

        ## Path definition of templates folder .
        'DIRS': [BASE_DIR/'templates'],

        'APP_DIRS': True,
        # options to configure
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]
```

Template inheritance (base.html, child templates).

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- Base.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Template Inheritance</title>
</head>
<body>
    <h1> This heading is common in all webpages </h1>
    {% block content %}
    {% endblock %}

</body>
</html>
```

Template inheritance (base.html, child templates).

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- home.html

```
{%extends "base.html" %}
{%block content%}

<h1>Welcome to Home</h1>

{% endblock %}
```

Using static files (CSS, JavaScript, images).

- Make sure that django.contrib.staticfiles is included in your INSTALLED_APPS.
- In your settings file, define STATIC_URL, for example:

  STATIC_URL = "static/"
- In your templates, use the static template tag to build the URL for the given relative path using the configured staticfiles STORAGES alias.

  {% load static %}

  <img src="{% static 'my_app/example.jpg' %}" alt="My image">
- Store your static files in a folder called static in your app. For example my_app/static/my_app/example.jpg.

Template filters and tags (e.g., {{ variable for %}, {% if %}).


```
<ul>
{% if athlete_list %}
    {% for athlete in athlete_list %}
    <li>{{ athlete.name }}</li>
    {% endfor %}
{% else %}
    <li>Sorry, no athletes in this list.</li>
{% endif %}
</ul>
```