

Answer the following

- 1. Explain template inheritance and template reusability.How do you include one Django template inside another using the { % include %} tag?**

Template Inheritance:

Template inheritance allows you to define a base template (e.g., with a header, footer, and layout), and then have other templates extend it by overriding only specific parts (called blocks).

Why it's useful:

- DRY principle: Avoids repeating common layout elements.
- Maintainability: Change layout in one place (base.html) and have it reflect across all pages.

Example:

```
<!DOCTYPE html>
<html>
<head>
    <title>{ % block title %}My Site{ % endblock %}</title>
</head>
<body>
    <header>Header content</header>
    { % block content %}{ % endblock %}
    <footer>Footer content</footer>
</body>
</html>
```

home.html:

```
{% extends 'base.html' %}
```

```
{ % block title %}Home{ % endblock %}
```

```
{ % block content %}
```

```
    <h1>Welcome to the Home Page!</h1>
```

```
{ % endblock %}
```

The `{% include %}` tag allows you to embed reusable template fragments like navbars, sidebars, or footers.

Example:

navbar.html:

```
<nav>
  <ul>
    <li><a href="/">Home</a></li>
    <li><a href="/about/">About</a></li>
  </ul>
</nav>
```

base.html:

```
<body>
  {% include 'navbar.html' %}

  {% block content %}{% endblock %}

</body>
```

2. What is the proper way to display images stored in the media folder in a Django template?

Step 1: Configure `MEDIA_URL` and `MEDIA_ROOT` in `settings.py`:

```
MEDIA_URL = '/media/'
MEDIA_ROOT = BASE_DIR / 'media'
```

Step 2: Serve media files during development (`urls.py`):

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

```
urlpatterns = [
    # your other URL patterns
] + static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
```

Step 3: In your template, load the image like this:

```

```