

## 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 %}
  <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:

```

```