

Tops Technology

Module 16)

Python DB and Framework

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CSS in Python

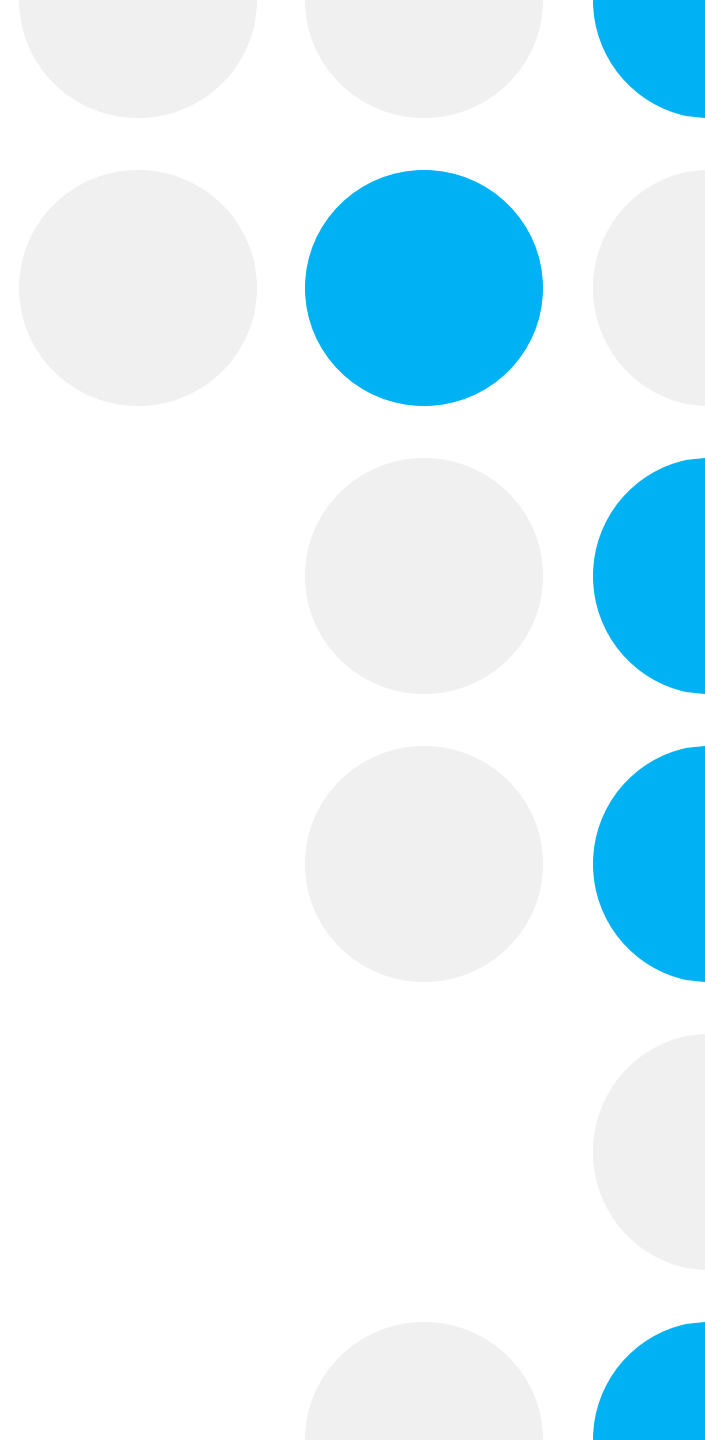
1.Integrating CSS with Django templates.

- To integrate CSS with Django templates, follow these steps:
 - **Add a Static Directory:**
 - Create a folder named static in your app directory.
 - Inside the static folder, create a subfolder for CSS (e.g., static/css).
 - **Add a CSS File:**
 - Create a CSS file in the static directory, e.g., static/css/styles.css.
 - ```
body {
```
  - ```
    font-family: Arial, sans-serif;
```
 - ```
 background-color: #f4f4f4;
```
  - ```
}
```
 - **Configure STATICFILES_DIRS (Optional):**
 - Ensure your project settings include static file directories.
 - `STATIC_URL = '/static/'`
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➤ **Link the CSS File in the Template:**

- Use Django's `{% static %}` template tag to reference the CSS file.
 - `{% load static %}`
 - `<!DOCTYPE html>`
 - `<html lang="en">`
 - `<head>`
 - `<link rel="stylesheet" type="text/css" href="{% static 'css/styles.css' %}">`
 - `<title>Integrating CSS</title>`
 - `</head>`
 - `<body>`
 - `<h1>Hello, Django with CSS!</h1>`
 - `</body>`
 - `</html>`
 - **Run the Development Server:**
 - Django automatically serves static files in development. Open the page in your browser to see the styles applied.
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2.How to serve static files (like CSS, JavaScript) in Django.

- To serve static files (like CSS, JavaScript) in Django:
 - **Set Up Static Files in Settings:**
 - Add the `STATIC_URL` in your settings file.
 - `STATIC_URL = '/static/'`
 - **Organize Static Files:**
 - Create a folder named `static` in each app for app-specific static files (e.g., `static/css/styles.css`).
 - For global static files, create a `static` folder at the project level and define:
 - `STATICFILES_DIRS = [BASE_DIR / "static"]`
 - **Load Static Files in Templates:**
 - Use the `{% load static %}` tag to reference static files in templates.
 - `{% load static %}`
 - `<link rel="stylesheet" href="{% static 'css/styles.css' %}">`
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➤ **During Development:**

➤ Django automatically serves static files using the runserver command.

➤ **For Production:**

➤ Use STATIC_ROOT to collect all static files into a single directory.

➤ `STATIC_ROOT = BASE_DIR / "staticfiles"`

➤ Run the collectstatic command:

➤ `python manage.py collectstatic`

➤ Configure your web server to serve static files.

