Lesson 06 Demo 02

Accessing Variables in Jinja2

Objective: To access and process variables in Jinja2 for formatting, transforming data, and applying logic within templates

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:

1. Create a file and define the template

2. Load the Python script

Step 1: Create a file and define the template

1.1 Run the following command to create a file: sudo nano template.j2

```
* Applications poojahksimplile@ip-172...

poojahksimplile@ip-172-31-29-173: ~

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poojahksimplile@ip-172-31-29-173:~$ sudo nano template.j2
```

1.2 Copy and paste the below script into the template.j2 file:

Hello, {{ name }}!

You have {{ notifications }} new notifications.

```
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GNU nano 6.2

Hello, {{ name }}!

You have {{ notifications }} new notifications.
```

Step 2: Load the Python script

2.1 Run the following command to create a new file:

```
sudo nano render_template.py
```

```
poojahksimplile@ip-172-31-29-173:~$ sudo nano render_template.py
```

2.2 Copy and paste the below script into the template.j2 file:

```
from jinja2 import Environment, FileSystemLoader
```

```
# Load the template from the file system
file_loader = FileSystemLoader('.')
env = Environment(loader=file_loader)

# Specify the template file
template = env.get_template('template.j2')

# Define the variables
context = {
    'name': 'ABCD',
    'notifications': 5
}

# Render the template with the variables
output = template.render(context)
```

```
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GNU nano 6.2
from jinja2 import Environment, FileSystemLoader

# Load the template from the file system
file_loader = FileSystemLoader('.')
env = Environment(loader=file_loader)

# Specify the template file
template = env.get_template('template.j2')

# Define the variables
context = {
    'name': 'ABCD',
    'notifications': 5
}

# Render the template with the variables
output = template.render(context)
print(output)
```

2.3 Run the following command to execute the script:

python render_template.py

```
poojahksimplile@ip-172-31-29-173:~$ python render_template.py
```

Below is the output after running the script:

```
poojahksimplile@ip-172-31-29-173:~$ python render_template.py
Hello, ABCD!
You have 5 new notifications.
poojahksimplile@ip-172-31-29-173:~$
```

By following these steps, you have successfully accessed and processed variables in Jinja2 for formatting, transforming data, and applying logic within templates.