

Recap

- Django New Project and New App
 - `django-admin startproject name_of_the_project`
 - `python manage.py startapp name_of_the_app`
 - `python manage.py runserver`
- Django Views and URLs
 - `urls.py` of project => included urls for the app
 - takes requests as input parameter
 - returns response => HTML / Text
 - defined a path to go to a particular view
- Django Static and Dynamic Routes
 - `/app/<user_name>`
 - `def view_method(request, user_name)`

Portfolio app where you want to show projects

- `/projects/`
- `/project/` => `/project/1`, `/project/2`

Few learnings:

- Keep `/` at the end of the path
- Do not keep `/` at the front of the path

Django Templates

- Template: What, why, how
- a file where can insert any dynamic content
- to save time and effort
- how =>
- Django Template Language, DTL

We need to know the syntax

Variables

- whose value gets replaced with the value when template is rendered
- `{{ variable_name }}`
- will get rendered

Tags and Loops

- tag will get evaluated

- Control the logic of the template
- could be a loop, conditional, etc.

```
{% tag %}  
..content  
{% endtag %}
```

- Loop, tag (evaluated) + variables (rendered)

```
{% for element in name_of_list %}  
  {{ element }}  
{% endfor %}
```

```
l = [1, 2, 3, 4]  
# loop is the logic <- like the tag  
for element in l:  
  # print is the actual output <- like the variable  
  print(element)
```

Conditionals

```
{% if condition %}  
  
{% endif %}
```

Coding Templates

Steps:

- Creating templates directory
 - Tell Django where to find templates
 - Create a template
 - Connect the template to the app, using render method
1. Defined our projects in the `projects` variable in `app/views.py`
 2. Create a template directory to keep the home.html template:
`templates/app_name/template_name.html`
 3. Tell Django where it can find your templates.
 4. Connecting the template to the app: `my_projects/views.py`

Render the template with the context (stores the template variables)

```
return render(request, 'my_projects/home.html', context = dictionary)
```

Portfolio Projects App Code

[Github Repository](#)

References

Please go through it.

<https://docs.djangoproject.com/en/3.0/ref/templates/>

Try to complete the assignments 1 & 2

- 2nd assignment is similar to the portfolio projects app
- It is a playlist and songs app.
- Also explore about URL tag and inheriting templates.
 - <https://docs.djangoproject.com/en/3.1/ref/templates/builtins/#url>
 - <https://docs.djangoproject.com/en/3.1/ref/templates/language/#template-inheritance>