Tarea 15: Sistema de plantillas Django

Django - Template System
Django makes it possible to separate python and HTML, the python goes in views and HTML goes in templates. To link the two, Django relies on the render function and the Django Template language.

The Render Function
This function takes three parameters −

- Request − The initial request.

- The path to the template − This is the path relative to the TEMPLATE_DIRS option in the project settings.py variables.

- Dictionary of parameters − A dictionary that contains all variables needed in the template. This variable can be created or you can use locals() to pass all local variable declared in the view.

Filters
They help you modify variables at display time. Filters structure looks like the following: {{var| filters}}.

Some examples −

- **{{string|truncatewords:80}}** − This filter will truncate the string, so you will see only the first 80 words.

- **{{string|lower}}** − Converts the string to lowercase.

- **{{string|escape|linebreaks}}** − Escapes string contents, then converts line breaks to tags.

You can also set the default for a variable.

Tags

Tags lets you perform the following operations: if condition, for loop, template inheritance and more.

Tag if

Just like in Python you can use if, else and elif in your template −

```html
<html>
    <body>

        Hello World!!!<p>Today is {{today}}</p>
        We are
        {% if today.day == 1 %}

        the first day of month.
        {% elif today.day == 30 %}

        the last day of month.
        {% else %}

        I don't know.
        {%endif%}

    </body>
</html>
```

In this new template, depending on the date of the day, the template will render a certain value.

Tag for

Just like 'if', we have the 'for' tag, that works exactly like in Python. Let's change our hello view to transmit a list to our template −

```python
def hello(request):
    today = datetime.datetime.now().date()

    daysOfWeek = ['Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', 'Sun']
    return render(request, "hello.html", {"today" : today, "days_of_week" : da
```

Block and Extend Tags

A template system cannot be complete without template inheritance. Meaning when you are designing your templates, you should have a main template with holes that the child's template will fill according to his own need, like a page might need a special css for the selected tab.

main_template.html

```html
<html>
    <head>

        <title>
            {% block title %}Page Title{% endblock %}
        </title>

    </head>

    <body>

        {% block content %}
            Body content
        {% endblock %}

    </body>
</html>
```