## What is Django Template Language? Why it is need in Django Web application Development?

**Django Template Language (DTL)** is a powerful templating engine provided by Django to dynamically generate HTML, XML, or other text-based formats. It allows you to embed Python-like expressions inside HTML code to display data, control flow, and reuse code efficiently.

#### **Dynamic Content Rendering:**

It helps in rendering dynamic content like user data, product lists, etc., without hardcoding them into HTML.

#### **Separation of Concerns (SoC):**

Keeps the business logic (in views/models) separate from presentation logic (in templates), following the MVC (Model-View-Controller) architecture.

#### **Security:**

By default, DTL escapes variables to prevent **Cross-Site Scripting (XSS)** attacks.

#### **Code Reusability:**

Supports template inheritance, making it easy to reuse layouts (e.g., base templates) across different pages.

#### **Built-in Filters and Tags:**

Provides filters (like date, upper, length) and tags (for, if, include) to manipulate data directly within templates.

# How do you pass context variables from a Django view to a template, and how do you access them in the template?

In Django, you pass data from a view to a template using a **context dictionary**. This dictionary contains key-value pairs where the key is the variable name accessible in the template, and the value is the actual data.

# Example: Passing Data from View to Template views.py

### 2. Accessing Context Variables in the Template

### templates/shop/products.html