Django - Python Web Framework

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Django - A High-Level Python Web Framework
What is Django?
Django is a high-level Python web framework that enables rapid development of secure and
maintainable websites.
Key Features:
- Fast development
- Built-in admin panel
- User authentication
- ORM for database interaction
- Templating system
- URL routing
- Protection against common web attacks
Architecture: MTV (Model - Template - View)
1. Model:
Defines database schema using Python classes.
Example:
class Post(models.Model):
    title = models.CharField(max length=100)
    content = models.TextField()
2. View:
Contains logic for handling requests and responses.
Example:
def post_list(request):
    posts = Post.objects.all()
    return render(request, 'post_list.html', {'posts': posts})
3. Template:
HTML file that displays data passed from the view.
Example:
{% for post in posts %}
  <h2>{{ post.title }}</h2>
  {{ post.content }}
{% endfor %}
Why Use Django?
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Reason	Benefit	
Secure	Prevents common attacks like SQL Injection	
Fast	Built-in tools speed up development	
Scalable	Used by Instagram, Pinterest, etc.	
Simple	Pythonic, clean, and easy to learn	

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| Extensible | Supports plugins, REST APIs (via DRF)

Use Case Examples:

- Blogs and news sites
- E-commerce platforms
- APIs with Django REST Framework
- CRM, ERP, and admin systems

Summary:

Django is ideal for building powerful web applications quickly with less code, strong security, and good scalability.