

# Información DJANGO

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**Resumen – Se muestran conceptos importantes para dar un mejor entendimiento de lo que es DJANGO, donde se incluye parte de su concepto, ventajas / desventajas y ejemplos.**

## I. INTRODUCCION

EN EL SIGUIENTE ESCRITO, exploraremos los conceptos esenciales relacionados con Django, incluyendo sus características, su estructura y su utilidad. Django es ampliamente aplicado a nivel global, abarcando desde aplicaciones web sencillas hasta proyectos empresariales de gran escala. Su enfoque en la eficiencia y la productividad lo convierte en una elección robusta para aquellos que buscan desarrollar aplicaciones web de forma ágil y eficaz.

## II. CONCEPTO

Django is a high-level Python web framework that enables rapid development of secure and maintainable websites. Built by experienced developers, Django takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It is free and open source, has a thriving and active community, great documentation, and many options for free and paid-for support.

## III. PARA QUE SE USA

Django can be (and has been) used to build almost any type of website — from content management systems and wikis, through to social networks and news sites. It can work with any client-side framework and can deliver content in almost any format (including HTML, RSS feeds, JSON, and XML).

## IV. VENTAJAS

With Django, you can take web applications from concept to launch in a matter of hours. It takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source.

### A. Exceedingly scalable.

Some of the busiest sites on the planet use Django's ability to scale quickly and flexibly to meet the heaviest traffic demands.

### B. Incredibly versatile.

Companies, organizations, and governments have used Django to build all sorts of things — from content management systems to social networks to scientific computing platforms.

### C. Ridiculously fast.

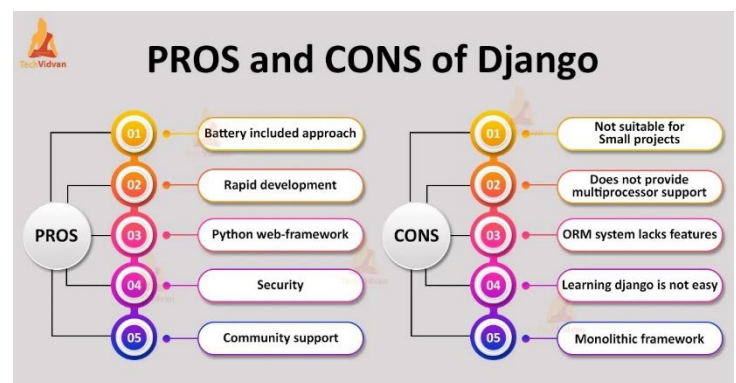
Django was designed to help developers take applications from concept to completion as quickly as possible.

### D. Fully loaded.

Django includes dozens of extras you can use to handle common web development tasks. Django takes care of user authentication, content administration, site maps, RSS feeds, and many more tasks — right out of the box.

### E. Reassuringly secure.

Django takes security seriously and helps developers avoid many common security mistakes, such as SQL injection, cross-site scripting, cross-site request forgery and clickjacking. Its user authentication system provides a secure way to manage user accounts and passwords.



## V. ARQUITECTURA

Model-View-Controller or MVC is a software architecture pattern, basically what it does is to separate the data and business logic of an application from its representation and the module in charge of managing events and communications.

MVC proposes the construction of three different components which are the model, the view, and the controller on the one hand it defines components for the representation of the information, and on the other hand for the user interaction. This software architecture pattern is based on the ideas of code reuse and separation of concepts, characteristics that seek to facilitate the task of application development and its subsequent maintenance.

## VI. EJEMPLOS

1. Instagram
2. Google
3. NASA
4. YouTube
5. Reddit
6. Spotify
7. Mozilla

## VII. COMO FUNCIONA

Django follows the MVT design pattern (Model View Template).

1. *Model* - The data you want to present, usually data from a database.
2. *View* - A request handler that returns the relevant template and content - based on the request from the user.
3. *Template* - A text file (like an HTML file) containing the layout of the web page, with logic on how to display the data.

## VIII. CARACTERISTICAS

1. Django is a versatile framework that can be used to create a wide array of applications in various domains.
2. Django is used to build all types of content management systems, social networks as well as scientific computing platforms.
3. Using the Django framework saves the time of developers and helps in the rapid development of web apps.
4. SEO is Search Engine Optimization as from the name it means that adding your website to the search engine such that it appears in the top results. This is a special feature of Django due to which it has edge over others.

## IX. BIBLIOGRAFIAS

- [1] Django. "Django overview". Django Project. Accedido el 6 de noviembre de 2023. [En línea]. Disponible: <https://www.djangoproject.com/start/overview/>.