

# Build Websites with Python and Django: Welcome to Django

## to Django

Django is a free and open-source Python web framework for building high-quality, complex websites quickly and efficiently. It is a high-level framework that simplifies web development by taking care of many of the common tasks, such as database access, templating, and routing. This allows Django developers to focus on building the unique features of their website without having to worry about the underlying infrastructure.



## Django for Beginners: Build websites with Python and Django (Welcome to Django Book 1) by William S. Vincent

★★★★☆ 4.5 out of 5

Language : English  
File size : 21985 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 343 pages



## Benefits of Django

- **Rapid development:** Django's batteries-included approach, which provides out-of-the-box solutions for common tasks, accelerates development time.
- **Scalability:** Django is designed to handle high traffic volumes, ensuring your website can scale as your business grows.

- **Security:** Django prioritizes security and offers built-in protections against common web vulnerabilities, such as cross-site scripting (XSS) and SQL injection.
- **Powerful templating system:** Django's templating engine provides flexibility and control over the presentation layer, enabling developers to create visually appealing and dynamic web pages.
- **Extensive ecosystem:** Django boasts a vast community and a plethora of third-party apps and packages, expanding its capabilities and facilitating the development of complex applications.

## Getting Started with Django

To get started with Django, you need to meet a few requirements:

1. **Python 3.6 or later:** Install Python; versions prior to 3.6 are not supported.
2. **pip:** The package installer for Python, used to install Django and its dependencies.
3. **Virtual environment:** Recommended for isolating Django projects and their dependencies from other Python projects.

Once you have these requirements in place, you can begin the installation process:

- **Create a virtual environment:**

```
http://127.0.0.1:8000/
```

In `todo/models.py`, modify the `Todo` class to include a `title` field:

```
admin.py
```

## Creating Views

Views are responsible for handling user requests and returning an appropriate response. In `todo/views.py`, create a view to display the list of todo items:

```
todo_list.html
```

```
{% for todo in todos %}
```

- `{{ todo.title }}`

```
{% endfor %}
```

```
{% endblock %}
```

## Adding URLs

URLs map user requests to views. In `todo/urls.py`, add the following URL pattern:

```
from django.urls import path from . import views urlpatterns
```

This article provides a comprehensive to building websites with Python and Django. By covering Django's features, benefits, and a step-by-step guide

to creating a simple application, we hope to have inspired you to explore the possibilities of this powerful framework. Django opens up a world of web development opportunities, empowering you to create robust, scalable, and secure websites efficiently. As you continue your Django journey, remember to explore its vast ecosystem and engage with the thriving community for support and inspiration.

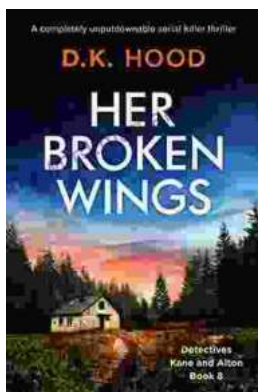
Happy coding!



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