

Django - Basics

Before you proceed, make sure that you understand the basics of procedural and object-oriented programming: control structures, data structures and variables, classes, objects, etc.

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Django makes it easier to build better web apps quickly and with less code.

Note – Django is a registered trademark of the Django Software Foundation, and is licensed under BSD License.

History of Django

2003 – Started by Adrian Holovaty and Simon Willison as an internal project at the Lawrence Journal-World newspaper.

2005 – Released July 2005 and named it Django, after the jazz guitarist Django Reinhardt.

2005 – Mature enough to handle several high-traffic sites.

Current – Django is now an open source project with contributors across the world.

Django – Design Philosophies

Django comes with the following design philosophies –

Loosely Coupled – Django aims to make each element of its stack independent of the others.

Less Coding – Less code so in turn a quick development.

Don't Repeat Yourself (DRY) – Everything should be developed only in exactly one place instead of repeating it again and again.

Fast Development – Django's philosophy is to do all it can to facilitate hyper-fast development.

Clean Design – Django strictly maintains a clean design throughout its own code and makes it easy to follow best web-development practices.

Advantages of Django

Here are few advantages of using Django which can be listed out here –

Object-Relational Mapping (ORM) Support – Django provides a bridge between the data model and the database engine, and supports a large set of database systems including MySQL, Oracle, Postgres, etc. Django also supports NoSQL database through Django-nonrel fork. For now, the only NoSQL databases supported are MongoDB and google app engine.

Multilingual Support – Django supports multilingual websites through its built-in internationalization system. So you can develop your website, which would support multiple languages.

Framework Support – Django has built-in support for Ajax, RSS, Caching and various other frameworks.

Administration GUI – Django provides a nice ready-to-use user interface for administrative activities.

Development Environment – Django comes with a lightweight web server to facilitate end-to-end application development and testing.

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