

ActiveNET

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Django Course Content

Pre-requisite:

Before this course you must be aware of procedural and object oriented programming, control structures, data structures, variables, class and objects etc.

Who implemented Django?

Discus, Instagram, Mozilla, OpenStack, Pinterest, PolitiFact.com, Rdio

About Django

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

- ORM Support
- Automatic Admin Interface
- Regex-based URL design
- Templating System
- Cache Infrastructure
- I18N (Internationalization)
- Command-line Job Framework

Features of Django

- Dynamic
- Interpreted
- Duck-Typed
- Object-oriented
- Functional
- Strongly Namespaced
- Exceptional
- Comfortable
- Readable
- Opinionated
- Batteries Included (Self-sufficient - means decreased / eliminated dependency on external libraries/packages.)
- Community

Django Tutorials Point

1. Django - Basics
2. Django - Overview
3. Django - Environment
4. Django - Creating a Project
5. Django - Apps Lifecycle
6. Django - Admin Interface
7. Django - Creating Views
8. Django - URL Mapping
9. Django - Template System
10. Django - Models

11. Django - Page Redirection
12. Django - Sending Emails
13. Django - Generic Views
14. Django - Form Processing
15. Django - File Uploading
16. Django - Apache Setup
17. Django - Cookies Handling
18. Django - Sessions
19. Django - Caching
20. Django - Comments
21. Django - RSS
22. Django - AJAX