DJANGO
Introduction

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WHAT IS DJANGO

- ➢ Django is a high-level Python Web framework used to Develop Websites
- ➢ Django makes it easier to build better Web apps more quickly and with less code
- ➢ Easiest Framework to learn, rapid development and Batteries fully included
- ➢ Django provides built-in features for everything including Django Admin Interface, default database SQLlite3, etc.
- ➢ When you're building a website, you always need a similar set of components: a way to handle user authentication (signing up, signing in, signing out), a management panel for your website, forms, a way to upload files, etc. Django gives you ready-made components to use and that too for rapid development.

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Why Django Framework ?

- Excellent documentation and high scalability.
- Used by Top MNCs and Companies, such as Instagram, Disqus, Spotify, Youtube, Bitbucket, Dropbox, etc. and the list is never-ending.
- Easiest Framework to learn, rapid development and Batteries fully included.
- The last but not least reason to learn Django is Python , Python has huge library and features such as Web Scrapping, Machine Learning, Image Processing, Scientific Computing, etc. One can integrate it all this with web application and do lots and lots of advance stuff.

Django – 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.

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Django – Advantages of Django

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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Thank You

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