

Django Advanced Concepts

Take your Django skills to the next level with advanced concepts and best practices.

Category: Programming · Duration: 3 days

WHO IT IS FOR

- Python developers
- Developers and DBAs who work with data every day
- Practitioners who already use it daily and want to go further

Deep dive into advanced topics like custom middleware, template tags, authentication and authorization, testing, optimization, and deployment in this comprehensive Django course. Gain a solid understanding of advanced Django concepts and learn how to build scalable and robust web applications using Django.

Prerequisites

Prior knowledge of Django and Python programming is required. Familiarity with front-end technologies such as HTML, CSS, and JavaScript is recommended.

Syllabus

- Introduction to Advanced Django Concepts
- Custom Middleware and Request/Response processing
- Writing Complex Views and Using Class-Based Views
- Custom Template Tags and Filters
- Authentication and Authorization in Django
- Testing and Debugging Django Applications
- Optimizing Django for Performance
- Advanced Database Management with Django ORM
- Deployment and Scaling of Django Applications
- Working with REST APIs in Django
- Securing Django Applications
- Using Django with Front-end Frameworks
- Building Real-time Applications with Django Channels
- Working with Third-party Libraries and Integration

- Managing Project Dependencies with Pipenv
- Automated Continuous Integration and Deployment with Django
- Version Control and Collaboration with Git and GitHub
- Best Practices and Coding Standards in Django
- Error Handling and Logging in Django
- Understanding Django Project Structure
- Project Development and Implementation
- Q&A and Recap Session