

Django Web Development Course Syllabus

Introduction to Django

- Overview of Django framework
- Installation and setup

Django Basics

- Project vs. App
- Creating a Django project
- Understanding Django settings

Django Models

- Creating models
- Database migrations
- Django admin interface

Django Views and Templates

- Views and URL routing
- Template language
- Rendering templates

Forms in Django

- Building forms
- Processing form data
- Form validation

Django Authentication

- User authentication
- Login, logout, and registration
- Custom user models

Django ORM

- Querying the database
- Aggregation and filtering
- Advanced queries

Django REST Framework

- Introduction to RESTful APIs
- Building APIs with Django REST framework
- Serializers and views

Deployment

- Preparing for deployment
- Deploying a Django application
- Best practices for deployment

Testing in Django

- Writing tests for Django applications
- Running tests
- Testing best practices

Advanced Django Concepts

- Middleware
- Signals
- Custom management commands

Project Work

- Building a complete Django project
- Applying best practices learned throughout the course