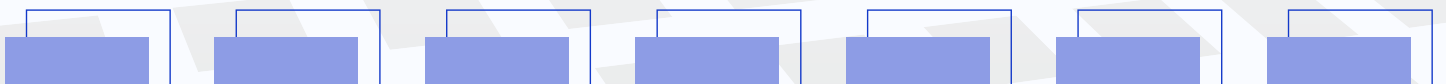


# DJANGO COURSE

Live Classes with Placement Support

- End-to-End Web Development
- Live Applications
- Built-in Security & Admin Panel
- Career Focused Learning Path



# Why choose DJANGO as your career?



## BUILD FULL-STACK WEB APPLICATIONS FAST

Django is a high-level Python web framework that lets you build secure, scalable, and feature-rich web apps quickly — with less code.



## IN-DEMAND FRAMEWORK WITH STRONG GROWTH

Used by top companies for backend development, Django skills are in high demand for roles in software engineering and product development.



## POWERING INDUSTRY-LEADING PLATFORMS

Django is used in startups and global giants like Instagram, Spotify, Mozilla, Disqus, Pinterest, and NASA web platforms.



## TOP RECRUITERS HIRE DJANGO DEVELOPERS

Tech leaders like Infosys, TCS, Cognizant, Zoho, IBM, Freshworks, and startups seek Django developers for full-stack roles.

# DJANGO Course Curriculum

## Lesson 1: Introduction to Django

### 1.1: Introduction to Django

- Overview of Django and its popularity.

### 1.2: Features of Django

- Key features that make Django ideal for web apps.

### 1.3: Django Web Server

- Setting up the Django web server for development.

### 1.4: Django Environment

- Set up a virtual environment and understand the structure.

### 1.5: Hello World App

- Build your first Django app.

## Lesson 2: Django Architecture

### 2.1: Django Architecture

- Explore Django's internal architecture and the MTV pattern.

### 2.2: MVC vs MTV

- Compare MVC and MTV patterns.

### 2.3: Starting a Project

- Learn how to start a new Django project.

### 2.4: Django Apps

- Learn how to structure apps in a Django project.



## Lesson 3: Views, URLs, and Templates

### 3.1: Hyperlink View

- Learn how to create views that display hyperlinks.

### 3.2: URL Mapping

- Map views to specific URLs.

### 3.3: Templates and Inheritance

- Use templates and template inheritance.

### 3.4: Data Flow

- Pass data from URLs to views and templates.

## Lesson 4: Django Models and DB Operations

### 4.1: Creating Models

- Learn to create models and link them to database tables.

### 4.2: Data Access via Django Shell

- Use the Django shell for database interactions.

### 4.3: CRUD Operations

- Perform Create, Read, Update, and Delete operations in Django.

## Lesson 5: Django Admin Interface

### 5.1: Admin Panel

- Set up Django's admin panel for model management.

### 5.2: Customize Admin

- Learn how to customize the admin interface.

### 5.3: Users and Permissions

- Add users and assign permissions in Django.

## Lesson 6: Django Forms and Email

### 6.1: Creating Forms

- Build forms for user input and validation.

### 6.2: Email Functionality

- Configure email settings and send emails from Django.

### 6.3: Template Language

- Learn Django's template language with tags and filters.

## Lesson 7: Sessions and Cookies

### 7.1: Session vs Cookie

- Understand the differences between sessions and cookies.

### 7.2: Using Sessions and Cookies

- Store and retrieve user data with sessions and cookies.

## Lesson 8: Working with Databases

### 8.1: SQLite and MySQL

- Learn how to use SQLite and MySQL in Django.

### 8.2: Advanced Queries

- Master querying and filtering with Django ORM.

## Lesson 9: Django Restful API

### 9.1: CRUD with Django Rest Framework

- Implement CRUD operations with Django Rest Framework.

### 9.2: Live Project

- Build and deploy a live project using Django Rest APIs.

## Lesson 10: Final Project and Deployment

### 10.1: Functional Website

- Build a functional website from start to finish.

### 10.2: Deployment

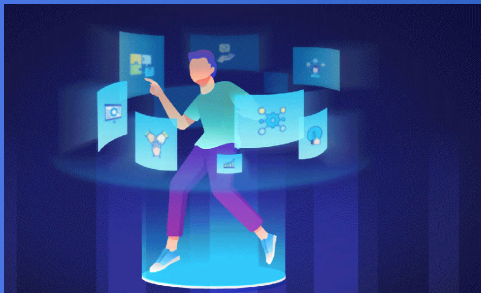
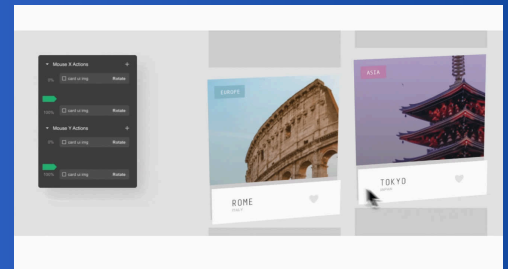
- Learn to deploy your Django project to production

# Hands-On Project

## *Blogging Platform*

**A simple blog website using Django.**

Build a basic blog platform where users can create, edit, and delete blog posts. Implement user authentication, comment sections, and a simple admin interface.



## *Task Management System*

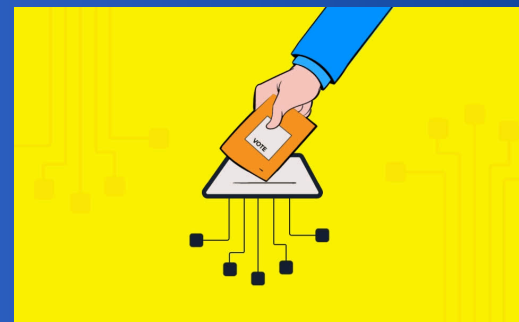
**Organize and track tasks with Django.**

Create a web application for managing tasks where users can create, update, delete, and mark tasks as completed. Add functionality for sorting and filtering tasks based on different criteria.

## *Online Polling System*

**Let users vote and create polls.**

Develop a polling application where users can create new polls, vote on existing polls, and view results in real time. Implement user authentication and limit voting to one per user.

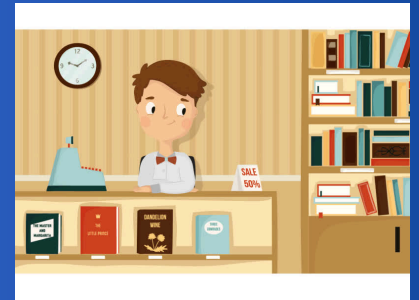


# Hands-On Project

## *Online Book Store*

**A full-fledged online book store using Django.**

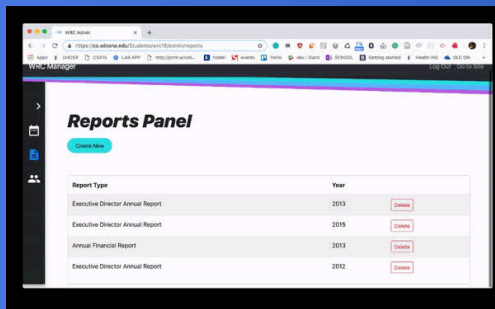
Build an online store where users can browse, add, and remove books from their shopping cart. Implement user authentication and payment gateway integration using Django's form handling and session management.



## *Event Management System*

**Manage events and attendees easily.**

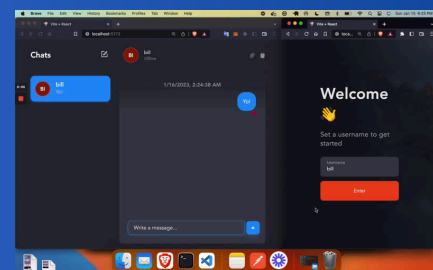
Create a web application to manage events. Include features for users to RSVP, add new events, and track attendance. Implement user authentication and create admin views to manage events.



## *Real-Time Chat Application*

**Implement real-time chat with Django and WebSocket.**

Build a web-based chat application where users can send and receive messages in real-time using Django Channels and WebSockets. Implement authentication and create private and group chat rooms.





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