www.iiht.org.in

DJANGO

60 Days
Training Program

Unleash Web Development Magic with Django

![IIHT — Connecting Talent to Opportunity — INTEGRATED INSTITUTE OF HARDWARE TECHNOLOGY]

IIHT Jaipur believe that upskilling is mightier than massive layoffs. And not just us, but countless companies attest to it and have adopted this approach in their businesses as well. The domain expertise these upskilled individuals bring in is what sets them apart. We focus on nurturing these aspects. So, whether you are a student in college or a fresh graduate entering corporate, we have something for you to offer.

We are an online and offline training institution that provides students and professionals with courses in high demand. We provide training in a vast array of technologies, including Cloud Computing, DevOps, Cyber Security, Full stack development, Data Science, Digital Marketing, and Web Development, among others.

Python Django training offered by IIHT Jaipur in Jaipur covers the entire Django syllabus for web development using the Python language and Django framework, including arguments, statements, loops, module creation, exception handling, web pages in Django, Django templates, database connectivity using Django, etc.

Learn The Seamless Development Process
Django handles a lot of the difficulty associated with web programming. It is open source and free. The Django Course was created to aid developers in completing applications as rapidly as possible.

Django Certification
Our course teaches Python Django concepts. The course will get you high-paying MNC employment. This course will enable you to fast-track your career by working on real-world industry projects and tasks.

Does IIHT Jaipur help with jobs?
IIHT Jaipur helps place all graduates. We exclusively partner with over 80 global MNCs for this. You can get placed in major companies like Sony, Ericsson, TCS, Mu Sigma, Standard Chartered, Cognizant, Cisco, and others. We prepare your résumé and employment interview.

SECTION - I

1. Introduction to Django
- What Is a Web Framework?
- The MVC Design Pattern
- Django's History

2. Installation of Django
- Installing Python
- Installing Django
- Setting Up a Database
- Starting a Project.
- The Development Server
- Django Commands Overview

3. The Basics of Dynamic Web Pages
- Your First View: Dynamic Content
- Mapping URLs to Views
- How Django Processes a Request
- URL configurations and Loose Coupling
- 404 Errors
- Your Second View: Dynamic URLs
- A Word About Pretty URLs
- Wildcard URL patterns
- Django's Pretty Error Pages

4. The Django Template System
- Template System Basics
- Using the Template System
- Creating Template Objects
- Rendering a Template
- Multiple Contexts, Same Template
- Context Variable Lookup
- Playing with Context Objects
- Basic Template Tags and Filters Tags
- Philosophies and Limitations
- Using Templates in Views
- Template Loading
- render_to_response()
- The locals() Trick
- Subdirectories in get_template()
- The include Template Tag.
- Template Inheritance

5. Interacting with a Database: Models
- The "Dumb" Way to Do Database Queries in Views
- The MTV Development Pattern
- Configuring the Database
- Your First App
- Defining Models in Python
- Your First Model & Insatlling the modle

- Basic Data Access
- Adding Model String Representations
- Inserting and Updating Data
- Selecting Objects
- Filtering Data
- Retrieving Single Objects
- Ordering Data
- Chaining Lookups
- Slicing Data
- Deleting Objects
- Making Changes to a Database Schema
- Adding Fields
- Removing Fields
- Removing Many to Many Fields
- Removing Models

6. **The Django Administration Site**
- Activating the Admin Interface
- Using the Admin Interface
- Users, Groups and Permissions
- Customizing the Admin Interface
- Customizing the Admin Interface's Look and Feel
- Customizing the Admin Index Page
- When and Why to Use the Admin Interface

SECTION - II

7. **Form Processing**
- Search
- The "Perfect Form"
- Creating a Feedback Form
- Processing the Submission
- Custom Validation Rules
- A Custom Look and Feel
- Creating Forms from Models

8. **Advanced Views and URL configurations**
- URL configuration Tricks.
- Streamlining Function Imports
- Using Multiple View Prefixes
- Special-Casing URLs in Debug Mode
- Using Named Groups
- Understanding the Matching/Grouping Algorithm
- Passing Extra Options to View Functions
- Using Default View Arguments
- Special-Casing Views
- Capturing Text in URLs
- Determining What the URL configuration Searches Against
- Including Other URL configurations
- How Captured Parameters Work with include()
- How Extra URL configurations Options Work with include()

9. **Generic Views**
- Using Generic Views
- Generic Views of Objects
- Extending Generic Views
- Making "Friendly" Template Contexts
- Adding Extra Context
- Viewing Subsets of Objects
- Complex Filtering with Wrapper Functions
- Performing Extra Work

10. **Extending the Template Engine**
- Template Language Review
- Request Context and Context Processors
- django.core.context_processors.auth
- django.core.context_processors.debug
- django.core.context_processors.i18n
- django.core.context_processors.request
- Guidelines for Writing Your Own Context Processors
- Inside Template Loading
- Extending the Template System
- Creating a Template Library
- Writing Custom Template Filters
- Writing Custom Template Tags
- Shortcut for Simple Tags
- Inclusion Tags
- Writing Custom Template Loaders
- Using the Built-in Template Reference
- Configuring the Template System in Standalone Mode

11. **Generating Non-HTML Content**
- The Basics: Views and MIME Types
- Producing CSV
- Generating PDFs
- Installing Report Lab
- Writing Your View
- Complex PDFs
- Other Possibilities
- The Syndication Feed Framework
- Initialization
- A Simple Feed
- A More Complex Feed
- Specifying the Type of Feed
- Enclosures
- Language
- URLs
- Publishing Atom and RSS Feeds in Tandem
- The Sitemap Framework
- Installation & Initialization
- Sitemap Classes

- Shortcuts
- Creating a Sitemap Index.
- Pinging Google 12.Sessions, Users and Registration
- Cookies
- Getting and Setting Cookies
- The Mixed Blessing of Cookies
- Django's Session Framework
- Enabling Sessions
- Using Sessions in Views
- Setting Test Cookies
- Using Sessions Outside of Views
- When Sessions Are Saved
- Browser-Length Sessions vs Persistent Sessions
- Other Session Settings
- Users and Authentication
- Enabling Authentication Support
- Using Users
- Logging In and Out
- Limiting Access to Logged-in Users
- Limiting Access to Users Who Pass a Test
- Managing Users, Permissions and Groups
- Using Authentication Data in Templates
- The Other Bits: Permissions, Groups, Messages and Profiles
- Permissions
- Groups
- Messages
- Profiles

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