

## برنامه نویسی وب با Django

Web Application Programming with Django

### سرفصل ها

#### Module 1: Web

- Web and HTTP
- Webservers(Nginx and Apache)
- Web programming with CGI
- Web programming with WSGI
- Webservices

#### Module 2: Database

- RDBMS Concepts
- Normalization
- Sqlite
- MySQL
- PostgreSQL
- Database Design Concepts
- NoSQL Databases

#### Module 3: Python OOP

- Classes
- Instances and Objects
- Attributes
- Inheritance
- Polymorphism
- Magic Methods
- Static Methods
- Abstract Classes and Methods
- Property
- Exception Handling
- Modules

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### **Module 3: Django Framework**

- Django Architecture
- Django Settings
- MVC and MTV
- URLs and routing
- Django Templates and Jinja
- Projects
- Static Assets
- Django ORM and alternative ORMs
- Django Admin
- Forms
- Django users and authentication
- WSGI Servers

### **Module 4: Django REST Framework**

- Webservices
- REST Concepts
- Building webservices with Django

### **Module 5: Containerized Django Apps**

- Intro to Docker
- Containers, Images and Runtime
- Docker Networking
- Docker Compose
- Reverse Proxy
- SSL and Offloading

- Core Python3
- Linux (LPIC-1)
- Basic HTML and CSS

**پیش نیازها**

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