

Goal :In this module, you will be introduced to Django and learn how to create views and perform URL mapping

Objectives :

- Explain Web Framework
- Explain MVC pattern
- Create a basic Django app
- Create Views Use HTTP request and response objects
- Use URLConf

Topics :

- Web development
- Introduction to Django Web Framework
- Features of Django
- Installing Django
- MVC model
- HTTP concepts
- Views
- URL
- Mapping

Templates and Forms

Goal :In this module, you will learn how to create Templates and Forms in Django

Objectives :

- Explain the Django Template System
- Load Template Files
- Render Templates
- Create Forms
- Process Form Data
- Customize Form Field Validation

Topics :

- Django Template Language
- Tags, Variables and Filters
- Rendering Templates Template
- Inheritance
- Form Handling
- Form validation and Error Messages
- Form Display

Models and Dynamic Webpages

Goal :In this module, you will learn how to create Database Models and add Dynamic content to your webpages

Objectives :

- Define Database Models
- Use Model Fields
- Populate a Database, CRUD
- Use QuerySets for data retrieval
- Use jQuery and AJAX with Django to create Dynamic websites

Topics :

- Django Models
- Model Fields
- Model Inheritance
- CRUD on DB
- Primary keys and the Model
- Dynamic Webpages
- Toggle Hidden Content
- jQuery and AJAX integration

Serialization

Goal :In this module, you will learn how to serialize and deserialize data and create APIs

Objectives :

- Explain Data Serialization
- Use Django's REST Framework
- Use Serializers and Deserializers
- Use Model Serializers
- Use REST APIs

Topics :

- Serialization and Deserialization
- Django REST Framework Serializer class
- Model Serializers
- REST APIs
- Creating a REST API