

Django REST Framework Basic

Q. What are the Pre-requisites to learn DRF ?

- If you want to learn Django REST Framework (DRF) then we required to learn
 - 1) Python language
 - 2) Django Framework

Q. Is Django Framework and Django RESTFramework are same?

- No, Django REST Framework is a 3rd party framework. Not developed by Django people.
- Django REST Framework is building on top of Django framework only.
- So it is an extension of Django only. It provides some extra Concepts or modules or classes or functions.
- By using of these modules or classes it provides ready-made code insted of developers.
- So that Django REST Framework is getting more popularity in now a days.
- Django REST Framework provides so many modules to develop the RESTful API's very easily.
- REST is a language independent, so we use it in Java , .Net , Python and so on.....

Q. What is the use of Django REST Framework?

- The Django REST framework (DRF) is a toolkit built on top of the Django web framework that reduces the amount of code you need to write to create REST interfaces.

Q. Why we should learn REST API ? What is the Importance of REST API ?

- Rest API provides so many advntages automatically. It reduces the lot of burden on Developer or Programer while developing the APIs for app to app communication.
- It decreasing the more lines of code by using ready-made modules or classes.
- That's why people are learning now a days REST API more and more.

Advantages Of RESTAPI :--

- Browsable API.
- No need of Templates.
- Writting less lines of code.
- Built-in modules , classes are available. Because of these in-built modules or classes we have advantages like,
 1. Time saving
 2. Cost saving
 3. Performance of application increasing.

- In-built Serializers support.

Note: The process of converting one type of data into another type is called Serializer.

For example,

Database Data --->> QuerySet Data ---->> Dict Data---->> JSON Data ---->> Browser

- Built-In Security (Token Authentication).
- Extensive Documentation.
- Without DB opening , we can conform the data state.

Q) Purpose of the HTTP methods ?

GET ----->> To get one /more resources.

POST ----->> To create a new resource

PUT ----->> To update a particular resource
DELETE ----->> To delete a particular resource.
PATCH ----->> To partially update the particular resource. (means , one or two fields.)

Q) As a programming developer how do you communicate with Database ?

- By using HTTP methods like get(), post(), put() and delete() methods we can communicate with database as a programming developer.

Q) As a Database developer how do you communicate with Database ?

- By using Database SQL CRUD commands we can communicate with database.

Relation between Database CRUD operations and HTTP methods

C	-----> Create	-----> POST
R	-----> Retrieve / Read	-----> GET
U	-----> Update	-----> PUT
D	-----> Delete	-----> DELETE

