Api testing with swagger:

- > Diongo Rest swagger is used to provide communication for all APLS which are used in our application with brief description about each API individually
- -> swagger is a open source API testing module, which is accepting all different kind of api's and it returns , response on the browser, with status codes for every request
- -> It is not focusing requested Api is developed by which platform and which domain, It focus only that Api is existing 81 not
- -> swagger is a set of open source tools built around the open open Api specification, that can help you to design, design, documents
- and consume the restapils
- -> If we want to work with swagger, we need to install one third party module like below

cmd> pip install django-rest-swagger.

-> After installing add "rest-frameroork_swagger"application inside INSTALLED Apps in sellings. py

INSTALLED_APPS = [

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-> create some url's to execute swagger_view, swagger_docs vanables

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url (r' swagger-apil' iswagger-view; name='swagger-apil),
url (r' swagger-docs/, swagger-docs),

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Project:
 step-1: create a project:
           project Name: swagger-project
 slep-2: application name: swagger-app
 step 3: batabase Nam: swagger-db
step-4: Add ; application name, rest-framework, vest-framework swagger,
    in Installed Apps, and add database configurations in
      sellings.py file
     # Add this line for api presentation
       REST_ FRAMEWORK = {
          'DEFAULT_SCHEMA_CLASS'; 'rest_framework · schemas · coreapi.
                                              AutoScheme!
       LOGIN = REDIRECT LURL = "Swagger-api"
       LOGOUT - REDIRECT - URL = 1 login
step-s: open models. py and write the below code
    from django. db import models
     class Employee (models. Model):
           eno = models. Integerfield (primary key = True)
         ename = models. Charfield (man -length = 100)
          esal = models. Decimal field (man-digit=10, decimal-place=2)
          eaddr = models · Charfield (man_length = 100)
dep-6: open semalizek.py
       from rest-framework import serializers
        from swagger-App. models import employee
              Employeeserializer (serializers. Modelserializer):
              class Meta:
                     model = Employer
```

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```
slep-6: open admin. Py
from django, contrib import admin
from swagger-app. models import Employee
     EmployeeAdmin (admin. ModelAdmin):
      list-display = ['eno', 'ename', 'esal', leaddr']
admin site register (Employee, EmployeeAdmin)
from django short cuts import render
step-7: open views: Py
from swagger-app, models impost semployee million to
From swagger-app serializers import Employeeserializer
     rest-framework import generics
from rest-framework authentication import Basic Authentication
from rest-framewook, permissions impost Is Authenticated
     Employee_list_swagger-View (generics. List (reate API View):
      11111
      list:
Return a list of all Employees.
         create:
   create a new Employee
      queryset = Employee - objeck all ()
      0 11 11
  serializer-class = Employeeserializer
                                        hat it - who regula
      authentication_classes = (BasicAuthentication)
       permission - classes = (IsAuthenticated,)
                          Blue discounts, Wester How Fig.
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Employee - Delail - swagger - View Cgenerics. Retrive Update Destroy April retrive: Return the given Employee destroy: Delcte a given Employee update a given Employee update: partial - update: partial updale a given employee HHH queryset = Employee . objects . all() Serializer_class = EmployeeSerializer step-8: open urll.py diango contrib import admin diango unds import path django confunds import un include swagger-App import views from rest-framework-swagger. Views import gels_swagger_view 6 swagger-view = get-swagger-view ('title = 'Employee API details') (from rest-frame work. documentation import include -docs-urls (E swagger_docc = enclude_docs_urls (title='swagger documentation for C Employee!) from django contrib auth views impost Loginhew, Logout View E 6 unspatterns = [path c'admin/, admin. site. unls), path "C'accounts llogin /', login New-as_view (Emplate=name= login. html)

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path ('logout/', logoutview · as_view (template_vame = 'logout. htm/),
                                           name = 'logout'),
     urs (r'^swagger-api/, swagger-vlew, name = 'swagger-api')
     urs (r'1 swagger-docs/ , swagger-docs),
     url (r'^empls', vrevox. Employee_list_swagger_view as_vrewo),
     und (r11 emp/(?p<pk>[0-9]+)/$', Views. Employee_Detail_swagger_
                           View as - Yrew ()
                            Third while with the
Login. html
<html>
chead>
    EV. Load static 1.3
    < ! DOCTYPE html>
    Khtml lang=1en1>
    chead>
        Kmeta [copy Boothap lines]
Kstyle>
    form & background-color: green;}
    the padding: 10pr; }
dstyle>
zlhead>
<body>
xdiv class = (ontainer">
     < div class = "row">
          <div class = 1 col = md = 6 offsed -3 ">
               < form method = 'post'>
                {1.csrf_token 1.3
                   Ltable>
                        25 form 32
                   altable>
                  Linput type = 'submit' value = 'login' style = 'margin-left: 180
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