-> To generating or creating the our user defined views in views p. your afollowing the some concepts

Eg:- Apiview, Mixins, Generics, View Sets, .....

these all concepts are using for converting data i from one form to another form without writing the more line and matically

-> If we are using the ApIVIEW Concepts then it is automatically checking the user entered data is uson type council that not -> To do database functionalities for id & non-id operations, we

are going to use 'Altp' methods only

Ea:- class con (ApIVICW):

def get (self, request):

def past (self, request):

- -> To return response on drango we are using 'Attp' response method
- -> In rest Ap1 we are using Response()
- -> Response() , taking input as dictionary and converting to Json type and return to browser con partner application
- In drango we are sending the http Request' we are getting Http Response' back
- -> But in Restaps we are sending only 'Request' object and getting the 'Response' object

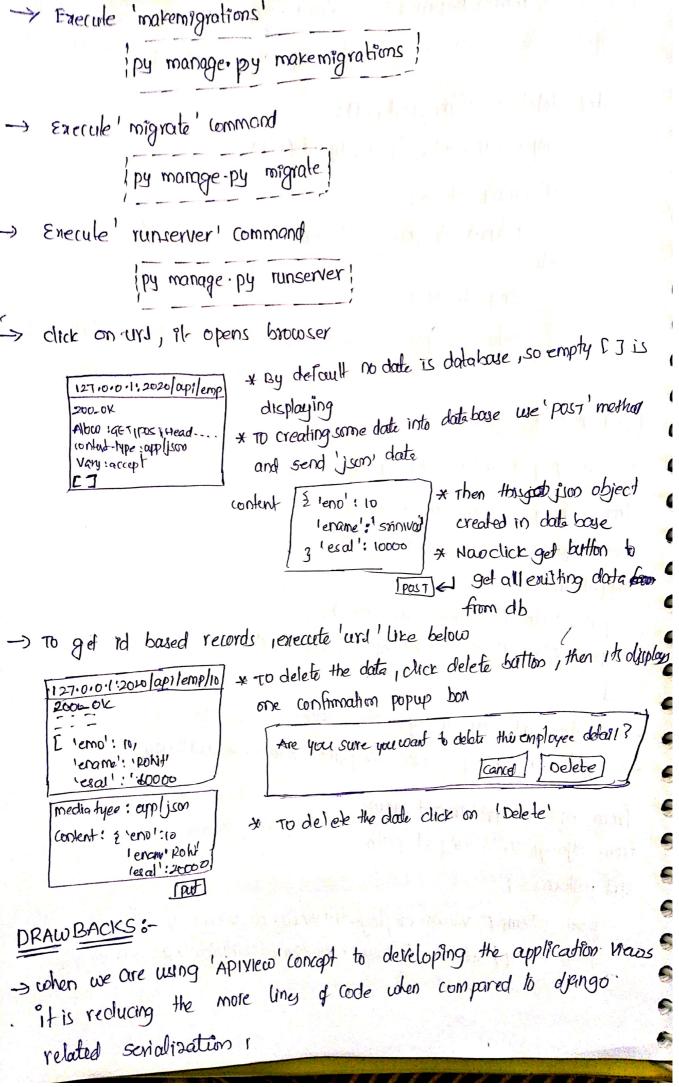
```
a write a program to do curo operations on database by
    using APIView Concepts
slep-1: project name: APIVIEW-project
Sep-2:
       app name : Aptivica-app
step-3: datbase rame " aptiview_db"
       3.1: Open mysell and run the command like below
                > create database apriview=db;
step-4: configure database name in sellings. by file, and add our
        application, REST_Application incide installed apps section
           INSTALLED_APPS = [
                            APIVIEW - app'
                            ' rest_frameworsc',
slep-5: open project level -- inster py file and
                                            - lest py -
       write the below code for pyrnysque dependent import purposed
        problem
           import pymysgu
            Pymysqd. Postall_as_Mysaldbu)
step-6:- open models - py file
      From django db import models
      class employee (models Model):
             eno = models. Integerfield ( primory - tey = true)
             ename = models. Charfield (man-length=100)
             esal = models. Integerfield () layer magnet
             def _str_ (self):
              returnself. ename
```

```
step-7: create serializers py inside our 'app'
        rest-frame work import Serializers
 from models import employee
  class employee Berializer (Señalizers. Model Señalizer):
            class Meta:
                 model = Employee
                 fields = 1_all_-
step-8: open views.py
   from django shortcuts import render
   from models import employee
   from. Serializers import employeeserializer
         rest-framework · Views import APIVIEW
   From rest-framework response import Response
   from rest framework import status
                                           e.o.alcl
#Non-id based class operations
            employeelisticw (APIVICW);
    class
          def get (self, request):
               emp = Employee.objects.all ()
               Senalizer = Rmployeesenalizer (emp, many = True)
               return Response senalizer data, statu = status. HTTP_200_00,
                              browserdata
                                                          Jondan
          def post (self, request):
              (emp=employee: objects-alk!)
                                                 data = request data
                Senaliver = employeesenalizer (emp, mongz Fite)
                       Serializer. is_validil.)
                                                            17Hp-201-Oxedled)
                          Senalizer. Savec)
                          return by Response (serializer date, status = studius.
```

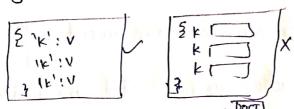
```
else:
             return Response (serializer; errors, status - status . + 1 Hp_400_
                                                    BAD_REQUEST)
# 1d based operations
class
        employeedelail veco (APIView):
         def get (self, requestion):
             try;
                emp = Employee. Objects get (eno=id):
             except Employee. Dors Not Exit:
                  return Response ( 'Record not found')
              clse:
                  Serializer = Employee Serializer (emp)
                  return Response (serializar data, status = status.
                                                        HHTP-200-OK)
         def gelobject-by_Id (self, id)?
              try:
                   emp = Employee. Objects get (eno = id)
             encept Employee · OverNotExit:
                   cmp=None
              return emp
       def put (self, request, id):
              emp = self.get_object_by_aid (id)
              if emp & None:
                          Response ('Re cord not available')
                   return
                                                  +d bused db date
              else i
                 serializer = EmployoeSerializer (emp, data=request. data)
                    if serializer. is_valid();
                                                       replacing
                             serializer. savel)
                             return Response (Serializer dala, status = stedius.
                    else:
                                                          HTTP-200_OK)
```

```
400-BAD-REQUEST)
      def delete (celfirequest, id):
           emp=self.gel.objed_by_id (id).
           if empis None:
               return Response ('Record is not available)
           else.
               emp. deletc 1
               return Response ('Record deleted successfully', status = status.
                                            HTTP-204_NO-(ONTENT)
open project urisipy
-> open project level url's py to calling application levels url's
  from dianop, contrib import admin
 from django urls import path, include
 url patterns = [
    path ( 'admin); admin site urls),
    path ('apil', & indude ('Apiview-app undi'))
-> create unl's py in application level
-> Right dick appp -> New -> python file -> url's.py
 from ApIviewapp import views
from django urds impost path
 urd patterns = [
     path ('emp1', views. employeelist view as -view()),
    path ('emp/<int:id>/', views. employeedeleilview.as_view())
```

return Rapmse (serializer errors, status = status. HTTP\_



-) even though apriview concept providing some burdens on developen eg: It is not providing readymade Templates, to acheering, create overgolats the data so, we need to provide data manually in the form of ison object by following ison rules



-> Apiview concept is not handling the "status" code" properly. so as a developer we need to handle all the status codes respectively based on the requirement

-> It is by default not returning responses to partner' (another app)
automatically so manually by using response method we are
returning responses properly

Apiview by default handling requested data is ison a not only but it is not handling the requested data containing all fields data with Nalid types, that, why as a pop programmer we need to check manually by using is-valid u

> BCZ of these all above burdens developers are not interested to use application views to use application concept to developing the our application views

to developing the Api's

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the fact that it has established private plantamentals interest

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