Djanog REST Framework *generics* module Concept

- ➢ The generic views of Django Rest Framework help us to provide in code reusablity.
- ➢ **generics** module providing the so many classes to perform the Data base operations.
- ➢ It is also providing some combination classes to perform the multiple actions at a time.
- ➢ DRF provides one module name as **generics ,** using this module we can create apis more easily.
- ➢ We import like bellow ,
     from rest_framework import generics
- ➢ This module is providing so many predefined view classes for creating Userdefined view classes.

Example:

ListAPIView:
- ➢ It is used to get all the data

CreateAPIView:
- ➢ It is used to create the new record into database

RetrieveAPIView:
- ➢ It is used to get any specific data based on id

UpdateAPIView:
- ➢ It is used to modify any specific data based on id

DestroyAPIView:
- ➢ It is used to delete any specific data based on id

ListCreateAPIView:
- ➢ It is used to get all data and also to post the data
- ➢ Here, It can perform both non-key based operations

RetrieveUpdateAPIView:
   - ➢ It is used to get one data or update any specific data

RetrieveDestroyAPIView:
   - ➢ It is used to get any specific data or to delete any specific data

RetrieveUpdateDestroyAPIView:
   - ➢ It is used to get any specific data or update any specific data or delete any specific data.

- ➢ Here , we no need of writing the handler and action methods name directly. we required only queryset and serializer_class fields .

     For example:
```
class EmployeeList(generics.ListAPIView):
    quesryset = modelName.objects.all()
    serializer_class = UserDefinedSerializer
```

Note: Finally, the **GenericAPIView** mixin provides the "core" functionality needed for a RESTful API.