Module – 5 (DB and Python Framework)

* Why Django should be used for web-development?

Explain how you can create a project in Django?

Answer:-Django is a high level Python web framework that is open-sourced and follows an MVT(Model View Template) type of architecture.

Now, let’s discuss how you can create a project in Django:

1. First install Virtual Environment:-

pip install virtualenv

1. Create a Virtual Environment:-

python -m venv myenv

1. Navigate into the myenv:-

cd myenv

1. Activate the Virtual Environment:-

Scripts\activate

1. Install the django:-

pip install django

1. Create a Djangoproject :-

django-admin startproject myproject

1. Nevigate to the project :-

cd myproject

1. Create a new app within a Django Project :-

python manage.py startapp myapp

1. Make migrations on your project:-

python manage.py migrate

10)Create super user for admin:-

python manage.py createsuperuser

11)Run the Development Server :-

python manage.py runserver

* How to check installed version of django?

Answer:- To running this command in your terminal:-

python -m django–version

* Explain what does django-admin.py make messages command is used for?

Answer:- django-admin.py make messages is a command used in Django to facilitate the internationalization and localization process by generating language translation message files based on marked strings in the code.

* What is Django URLs? make program to create django urls.

Answer:-

myproject/myapp/urls.py :-

fromdjango.contrib import admin

fromdjango.urls import path

from .import views

urlpatterns = [

path('', views.index,name='index'),

]

Then your file will look like this:

myproject/myproject/urls.py:-

fromdjango.contrib import admin

fromdjango.urls import path,include

urlpatterns = [

path('admin/', admin.site.urls),

path('',include('myapp.urls')),

]

* What is a QuerySet?Write program to create a new Post object in database.

Answer:-QuerySet is a collection of database query results. Create a Post named model :-

myproject/myapp/models.py:-

fromdjango.db import models

class Post(models.Model):

title = models.CharField(max\_length=20)

content = models.TextField()

To create a new Post object in database, you can use following code:-

myproject/myapp/views.py :-

from models import \*

Post.objects.create(

title = “my title ”,

content = “my content”

)

* Mention what command line can be used to load data into Django?

Answer:- Here’s the syntax for using the ‘loaddata’ command:-

python manage.py loaddata<fixture\_file\_name>