**1). Why Django should be used for web-development? Explain how you can create a project in Django?**

Ans:- Django is a popular web framework for building web applications using the Python programming language.

* To create a project in Django, follow these steps:

1. Install Virtual Environment:

* pip install virtualenvironment

1. Create a virtual Environment

* Python -m venv enviromentname

1. cd environmentname
2. Install Django:

* Pip install Django

1. Create a Django project:

* Django-admin startproject projectname

1. cd projectname
2. Create a Django app:

* Django-admin startapp appname

1. Define Models, Views, and Templates:

* Define data models in the ‘models.py’ file inside the app
* Write views in the ‘views.py’ file
* Create templates in the ‘templates’ directory

1. Make URLs:

* Define URL patterns in the ‘urls.py’ file inside the app directory
* Include these app-specific URLs in the project’s ‘urls.py’ file

1. Run Migrations:

* Python manage.py makemigrations
* Python manage.py migrate

1. Create a Superuser:

* Python manage.py createsuperuser

1. Run server:

* Python manage.py runserver

**2). How to check installed version of Django?**

Ans:- To check installed version of Django, you can use the following command in your terminal:

python -m django –version

* Alternatively, you can also use the following command:

pip show django

**3). What is Django URLs? Make program to create Django URLs**

Ans: - The urls.py file you just created is specific for the members application.

--- Example of create Django URLs:

1. Create a Django project:

django-admin startproject myproject

1. Create a Django app:

python manage.py startapp myapp

1. Define your views in views.py (in myapp views)

from django.shortcuts import render

def home(request):

    return render (request,"Welcome to the homepage!")

1. Define your URL patterns in ‘urls.py’ (in myapp urls)

from django.urls import path

from .import views

urlpatterns = [

path ("home/",views.home, name="home"),

]

1. Include the app’s URL in the project ‘urls.py' (in myproject urls)

from django.contrib import admin

from django.urls import path, include

urlpatterns = [

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

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

]

1. The execute this command :

Python manage.py runserver

* In the browser window, type 127.0.0.1:8000/home/ in the address bar.

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

Ans:- The command line command used to load data into Django is:

python manage.py loaddata <fixture\_name>

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

Ans:- The django-admin.py make messages command is used in django to facilitate the internationalization and localization process. It is specifically used for generating language translation message files based on marked strings in the code.

-Django-admin.py make messages helps in extracting these marked strings from your codebase and organizing them into files that translators can work with to provide translation for different language.

**6) What is QuerySet? Write program to create a new post object in database:**

Ans:- A QuerySet in Django is a collection of database query results that allows you to interact with your database models.

* Program to create a new post object in database:
* Define class post in models:
* Project/app/models.py:-

fromdjango.db.import models

class Post(models.Model):

title= models.CharField(max\_length=30)

content= models.TextField()

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

* Create a new post object in the database using Django models:

Project/app/views.py:-

from app.models import Post # import the post model from app

# create a new post object

New\_post= Post.objects.create(

title= ‘my post’,

content= ‘my content’,

author= ‘john Doe’

)

# save the new post to the database

New\_post.save()