Assignment-Module–5(DBandPython Framework)

# WhyDjangoshouldbeusedforweb-development?Explain how you can create a project in Django?

->Django is the best framework for web applications, as it allows developers to use modules for faster development. As a developer, you canmakeuseofthesemodulesto createapps,websitesfromanexisting source. It speeds up the development process greatly, as you do not have to code everything from scratch.

->Create project

* 1. InstallDjango:pipinstalldjango
  2. CreateaDjangoProject:django-adminstartprojectmyproject
  3. RuntheDevelopmentServer:pythonmanage.pyrunserver
  4. CreateDjangoApps:-pythonmanage.pystartappmyapp
  5. DefineModels
  6. WriteViews
  7. DefineURLs
  8. CreateTemplates
  9. RunMigrations:pythonmanage.pymakemigrations python manage.py migrate
  10. TestYourApplication.

# 2.Howtocheckinstalledversionofdjango?

->python-mdjango--version

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

->The django-admin.pymakemessagescommandisusedtogenerateor update language translation files (.po files) for Django projects. These translation files contain translation strings extracted from Django templates and Python source code.

# 4.WhatisDjangoURLs?makeprogramtocreatedjangourls.

-> In Django, URLs are patterns used to map URLs to views within a web application. The URL patterns are defined in the urls.py module of each Djangoapp, andthey determinewhichviewfunctionorclass-basedview should be called for a given URL.

-CreateaDjangoApp:pythonmanage.pystartappmyapp

-DefineURLPatterns

-MapURLstoViews

**-**IncludeAppURLsinProjectURLs

-fromdjango.urlsimportpath from . import views

urlpatterns=[

path('', views.home, name='home'), path('about/', views.about, name='about'), path('contact/',views.contact,name='contact'),

]

from django.shortcuts import render fromdjango.httpimportHttpResponse

defhome(request):

returnHttpResponse("HomePage")

defabout(request):

returnHttpResponse("AboutPage")

defcontact(request):

returnHttpResponse("ContactPage") from django.contrib import admin

fromdjango.urlsimportpath,include

urlpatterns=[

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

]

# 5.WhatisaQuerySet?WriteprogramtocreateanewPost object in database:

**->**AQuerySetisacollectionofdatafromadatabase. A QuerySet is built up as a list of objects.

QuerySetsmakesiteasiertogetthedatayouactuallyneed,byallowing you to filter and order the data at an early stage.

**# models.py**

**fromdjango.dbimportmodels class Post(models.Model):**

**title=models.CharField(max\_length=100) content = models.TextField()**

**created\_at=models.DateTimeField(auto\_now\_add=True)**

**def**  **str** **(self): returnself.title**

# 6.Mention what command line can be used to load data into Django?

**->**To load data into Django you have to use the command line **Django- admin.py loaddata.** The command line will searches the data and loads the contents of the named fixtures into the database.

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

->It performs administrative tasks related to Django, such as starting a Django project or creating a new Django app. It can also execute management commands offered by Django or third-party packages.