

Python Assignment

Module – 5 (DB and Python Framework)

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

Django is an open-source framework for backend web applications based on Python — one of the top web development languages. Its main goals are simplicity, flexibility, reliability, and scalability.

❖ **Create a project in Django :**

- Step 1:** Opening PowerShell
- Step 2:** Verifying Python Installation
- Step 3:** Upgrading PIP
- Step 4:** Creating a Project Directory
- Step 5:** Creating the Virtual Environment
- Step 6:** Activating the Virtual Environment
- Step 7:** Installing Django
- Step 8:** Create the Django Project
- Step 9:** Running the Development Server
- Step 10:** Create app in Django

➤ QUESTION : 2 **How to check installed version of Django?**

To check the Django version for python3 open the terminal and write the command in your terminal:

- **python -m django --version**

➤ QUESTION : 3 **Explain what does django-admin.py make messages command is used for?**

The ‘makemessages’ command scans the codebase of a Django project to find strings marked for translation using the ‘gettext’ function. It then creates or updates message files containing these strings in a specified target directory. These message files are used as a basis for translations into different languages.

- **django-admin.py makemessages -l de**
- **django-admin.py makemessages -l en**
- **django-admin.py makemessages -l fr**

- `django-admin.py makemessages -l es`
- `django-admin.py makemessages -l pt`

➤ **QUESTION : 4 What is Django URLs? make program to create django urls**

In Django, URLs (Uniform Resource Locators) are used to map specific URLs to views in your web application. The `urls.py` file in a Django project defines the URL patterns for your application.

➤ **QUESTION : 5 What is a QuerySet ? Write program to create a new Post object in database:**

In Django, a `QuerySet` is a collection of database queries that can be used to retrieve data from your database. It allows you to filter, order, and manipulate data before it is retrieved from the database. A `QuerySet` is lazily evaluated, meaning the actual database query is not executed until the data is explicitly requested.

➤ **QUESTION : 6 Mention what command line can be used to load data into Django?**

The Django `loaddata` command allows you to load data from a file into the database. Typically, you use the `dumpdata` command to export data from a database and use the `loaddata` command to import data from the file into the same or another database.

The syntax of the `loaddata` command:

- `Python manage.py loaddata fixture_name()`

A fixture is a collection of data files that Django will use to import into a database.