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

Django is a high-level Python web framework that enables rapid development of secure and maintainable websites.

Here are some reasons why Django is a preferred choice for web development:

1. **Rapid Development:**
   * Django promotes a rapid development approach, allowing developers to build web applications quickly without reinventing the wheel.
2. **Scalability:**
   * Django is designed to help developers take applications from concept to completion as fast as possible, and then scale them as needed.
3. **Security:**
   * Django provides built-in security features to protect the web application from various threats such as SQL injection, cross-site scripting, and cross-site request forgery.
4. **Versatility:**
   * Django can be used for various web development tasks, from simple websites to complex web applications.
5. **Batteries-Included:**
   * Django comes with a lot of built-in features, such as an ORM (Object-Relational Mapping), authentication, URL routing, template engine, and more, reducing the need for external dependencies.
6. How to check installed version of Django?

You can check the installed version of Django using several methods. Here are the most common ways:

**Using pip**

We can use the pip command to check the installed version of Django:

pip show django

This will display information about the Django package, including the version.

**Using the Django Module in Python**

We can also check the Django version directly from a Python script or interactive shell:

import django

print(django.get\_version())

**Using the Command Line**

django-admin --version

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

The django-admin.py makemessages command is used in Django to create translation files for your project. This command is part of Django's internationalization framework, which allows you to create multilingual web applications by managing translations for different languages.

1. What is Django URLs?

In Django, URLs are used to map URLs to views, which are Python functions that handle the logic for your web pages. The URL dispatcher is based on a pattern matching system, where each URL pattern is mapped to a specific view.

Key Concepts

1. URLconf:
   * A URL configuration (URLconf) is a mapping between URL patterns and views. It’s a Python module that contains a list of URL patterns.
2. URL Patterns:
   * Each URL pattern is a regular expression that matches a specific URL path and is associated with a view.
3. Views:
   * Views are Python functions or classes that take a web request and return a web response. The URL dispatcher maps URLs to these views.
4. What is a Queryset?

A QuerySet in Django is a collection of database queries that can be executed to retrieve objects from the database. It is the way Django interacts with the database, providing an efficient way to filter, sort, and manipulate data. QuerySets allow us to chain filters and other operations together, creating complex queries in an efficient and readable manner.

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

To load data into a Django project, you typically use the loaddata management command. This command reads data from fixture files and loads it into the database.

python manage.py loaddata path/data.json

The loaddata command is used to load data from fixture files (in JSON, XML, YAML, or Python serialized format) into your database. Fixture files contain serialized data that Django can read and use to populate the database.