GUIRITAN, CESAR U.

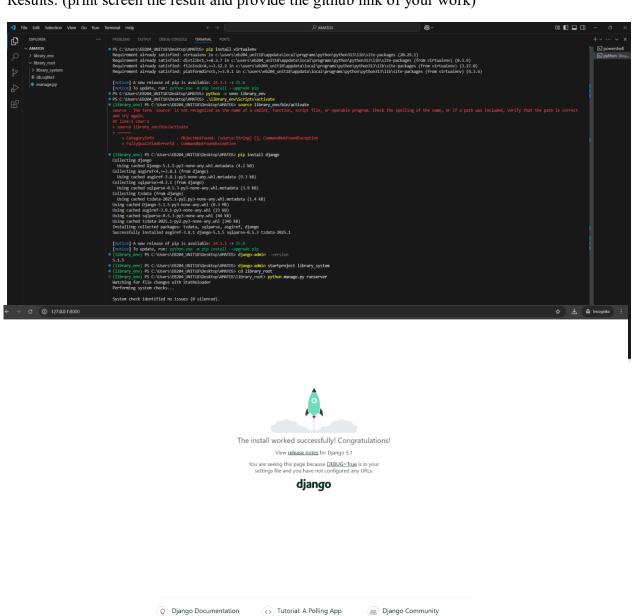
BSCPE

Laboratory Activity No. 1:

Topic: Introduction to Software Design, History, and Overview

Title: Setting Up the Development Environment for Django Project

Results: (print screen the result and provide the github link of your work)

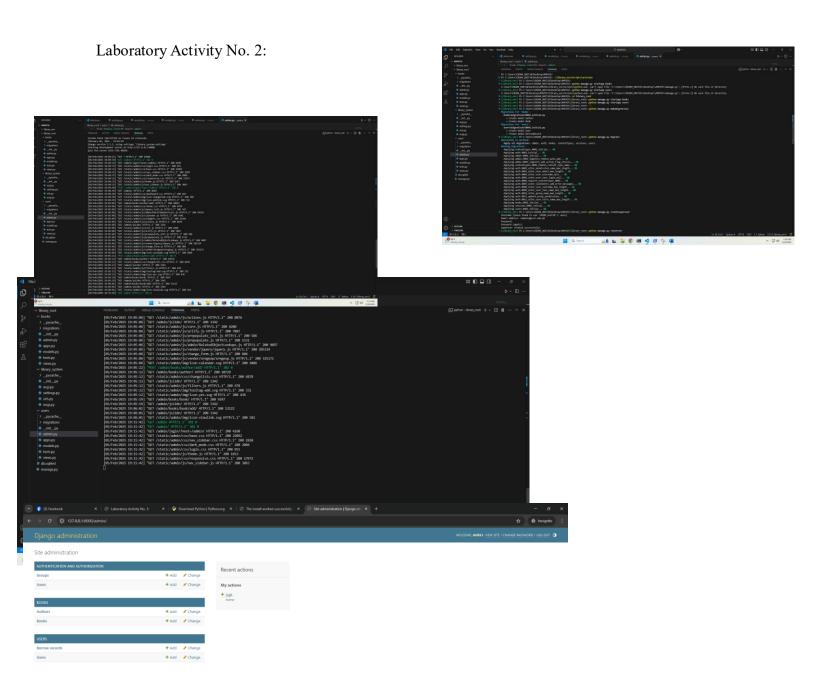


- 2. What are the advantages of using Django for web development over other frameworks?
- Django offers rapid development, scalability, strong security, built-in features, and excellent documentation, making it a powerful and efficient web framework.

Findings: Django is a robust web framework known for its rapid development, scalability, strong security, and built-in features. Its "batteries-included" approach simplifies development, while extensive documentation and community support enhance its usability.

Summary: A virtual environment in Django development isolates project dependencies, ensuring consistency and preventing conflicts between different projects. Django itself is a powerful web framework offering rapid development, scalability, strong security, built-in features, and excellent documentation, making it an efficient choice for web development.

Conclusion:In conclusion, using a virtual environment in Django development ensures dependency management and project isolation, leading to a stable development setup. Django's advantages, including rapid development, scalability, security, and built-in features, make it a preferred framework for efficient and secure web application development.



e database schema

asing Django models, created the corresponding antabase tables, and registered the models in the admin panel. (print screen the result and provide the github link of your work)

Follow-Up Questions:

1. What is the purpose of using ForeignKey in Django models?

The purpose of using **ForeignKey** in Django models is to establish a **one-to-many** relationship between two database tables. It links one model to another, allowing related data to be efficiently retrieved and managed.

2. How does Django's ORM simplify database interaction?

Django's Object-Relational Mapper (ORM) simplifies database interaction by allowing developers to work with databases using Python objects instead of raw SQL queries.

Findings: Django's **ForeignKey** establishes a **one-to-many** relationship between models, ensuring data integrity and simplifying related data retrieval. The **ORM** simplifies database interaction by allowing developers to use Python objects for CRUD operations, eliminating the need for raw SQL and enhancing security, efficiency, and portability.

Summary: The **ForeignKey** in Django establishes a **one-to-many** relationship between models, ensuring data integrity and simplifying related data retrieval. Django's **ORM** abstracts database interaction, allowing developers to use Python objects for database queries instead of raw SQL. This simplifies CRUD operations and enhances efficiency in handling relational data.

Conclusion: