

## 2.3 Learning Journal

1. Do some research on Django models. In your own words, write down how Django models work and what their benefits are.

Django models are an essential component of the Django web framework, responsible for defining the structure and behavior of data in a database. Django models act as a bridge between the application's code and the underlying database, providing an abstract layer that allows developers to interact with the database using Python code.

The benefits of using Django models include increased development speed, improved code readability, reduced data handling complexity, database independence, automatic schema generation and migration, and integrated data validation. Overall, Django models provide a high-level and developer-friendly way to interact with databases, making it easier to build robust and scalable web applications.

2. In your own words, explain why it is crucial to write test cases from the beginning of a project. You can take an example project to explain your answer.

Writing tests from the beginning of a project are crucial for several reasons. It improves code quality, helps catch bugs early, facilitates collaboration among developers, enables code refactoring and scalability, prevents regressions, and provides confidence in deploying new features. By investing in test coverage from the start, you build a solid foundation for a maintainable and robust application.