

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

Django models define the structure of my database. It is a bridge between my application's database and code, allowing me to interact with my data in Python instead of writing SQL queries manually. The abstraction makes it easier to focus on building features rather than managing database interactions. I can easily extend or modify models even if I expand my application. Adding a new field or changing a field type is straightforward with Django's migration system, which keeps my database schema in sync with my models.

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.

It is crucial for ensuring that your code works as expected and it helps me to catch bugs early. If I had test cases for creating, deleting, or even updating tasks, I would have caught those issues in development rather than after deployment. Even though writing a test might feel like extra workload, it saves a lot of time in the long run by reducing the number of bugs and making future changes easier and safer.