

## Exercise 2.3: Django Models

### Learning Goals

- Discuss Django models, the “M” part of Django’s MVT architecture
- Create apps and models representing different parts of your web application
- Write and run automated tests

### Reflection Questions

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 Python classes that inherit from the Model class. They are used to define the structure of a database table, as well as structure of data itself. Some benefits of using Django models include scalability, security, and reusability. Django models make it easier for developers to build larger applications by easily organizing the data allowing the developers to focus on building project functionality.

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 at the beginning of a project is essential because it ensures that basic functionality is maintained as you continue to build on the project. With tests in place, a developer is quickly notified if new additions to the codebase are causing bugs in previously deployed code. If a test does fail, it allows a developer to easily isolate and subsequently fix the bug during the development process.