

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 the ‘M’ of Django’s MVT architecture. A model in Django is a Python class that subclasses `django.db.models.Model`, where each attribute of the class represents a database field.
Benefits are:
 - Consistency- Single source for database schema, improving DRY programming and limiting errors
 - Abstraction- Simplifies SQL queries
 - Flexibility- Easier migration and evolution
 - Security- Built in security measures
 - Productivity- Streamlines CRUD operations
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 important to write tests for several reasons including early bug detection, code reliability, helps facilitate refactoring and aids in documentation.