EXERCISE 2.3: DJANGO MODELS

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

Django models like a connector between a database and application, and allows to define the structure of the data in Python code. Each model represents a table in the database, and each attribute of the model becomes a column in that table. Django automatically handles the creation, querying, and modification of database entries using the models, making it easier to work with data without writing SQL. The benefits of Django models include their ease of use, automatic database management, and integration with Django's ORM (Object-Relational Mapping), which allows developers to interact with databases using Python.

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 test cases from the start of a project ensures that the code is reliable and works as expected from the beginning. It helps catch bugs early and saves time in the long run by avoiding major issues later. Early testing also promotes better code quality and helps with debugging when new features are added.