# Case study

This assessment is designed to test your advanced understanding and practical application of classes, inheritance, and design patterns in Python 3. You will be developing an Online Bookstore Management System, implementing classes for different types of books, users, and order processing. You will be provided with a case study which will require you to use your problem-solving skills and you will create an application via object-oriented programming and apply best practices and design patterns to an application. You will need to create a solution and develop the program using Python3 language.

You have been hired as a senior software engineer to design and develop an Online Bookstore Management System for a multinational book retail company called "Bookiverse." The system should handle various aspects of an online bookstore, including book inventory management, user management, and order processing. You need to create classes for books, users, and orders, implementing advanced features and design patterns as outlined below:

