

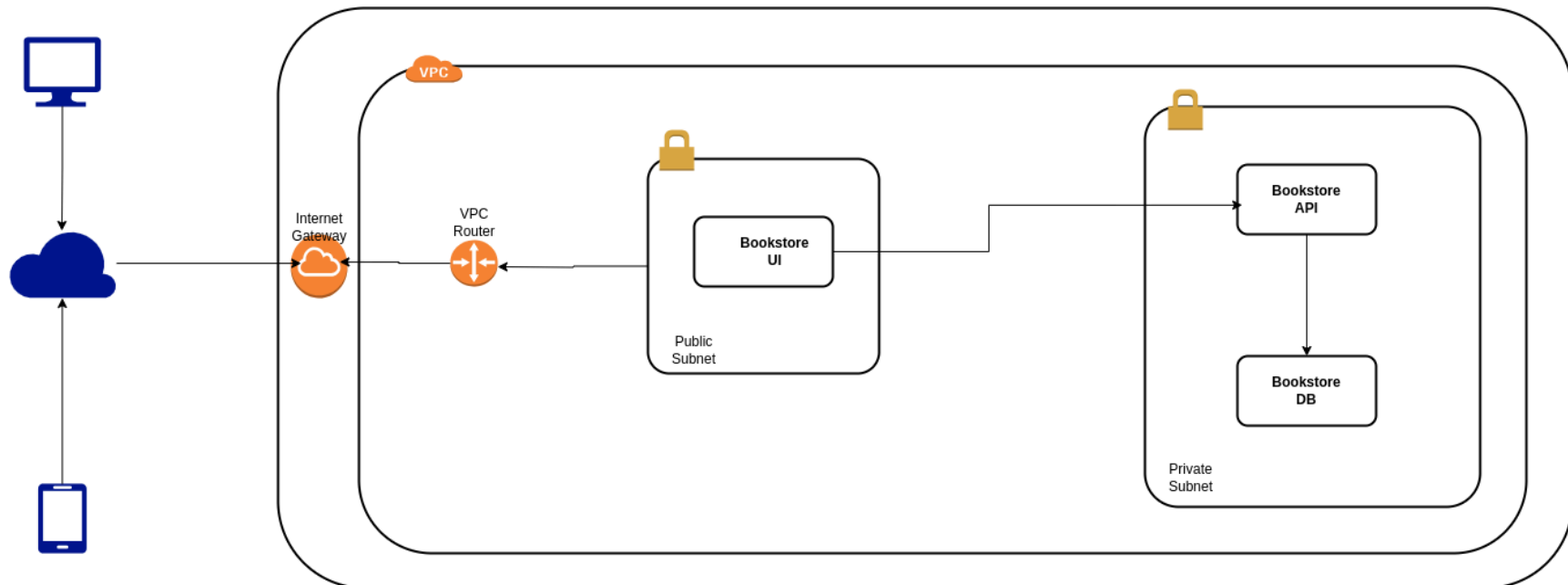
BookStore: Online Bookstore Inventory System

Problem Statement

Maintain an inventory of all available books

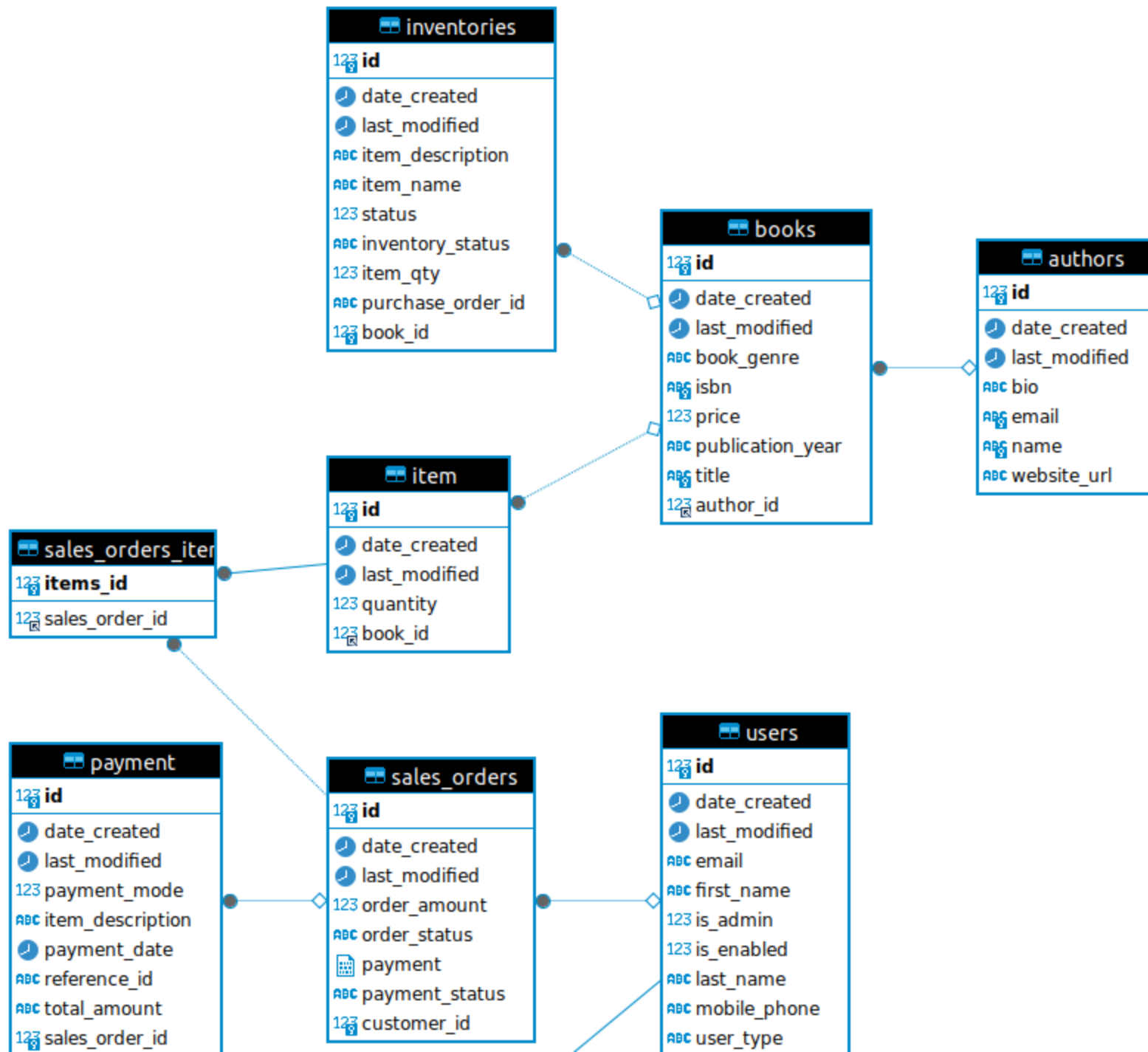
Analysis & Design

System Architecture



ER Model

The ER models represent the domain entities, attributes and value types. The bookstore entities are thus highlighted below:



Book: can be described with the following attributes;

- Title (must contain only numbers and letters)
- Genre, it should be limited to Friction, Thriller, Mystery, Poetry, Horror, and Satire
- ISBN code (must contain only numbers and dash(-))
- The Author
- And the year of publication

Author: can be described with the following attributes;

- Name
- Bio
- Website
- Book

Inventory: entity whose function is to sell books online, can be described as follows;

- Name
- Website
- BooksInventory

Orders: are book sales transaction and can be described with the following attributes

- Book
- Customer

Staff: are employees and have attributes

- Name
- StaffID
- Email

Customer: users that purchase books online

- Name
- userID
- Email

Business Operations (Functional Requirements)

The functional requirement for the Bookstore Online are as described below

1. Ability to provide secure user management and other domain resources
2. Ability to stock books in the Inventory
3. Ability to Add Book Items to Shopping cart
4. Ability to Remove Book Item from Shopping cart
5. Ability to show Items in the Shopping cart
6. Ability to Check out the Shopping cart