

TASK 1

1. Business Plan & Requirements Analysis

Business Idea: Online Bookstore Management System

Requirements Analysis:

An online bookstore requires a system to manage its Books, Customers, Orders, Order Details, Payments, Suppliers, Inventory, Publications and Genres efficiently. The system will store details of all books, including title, author, genre, price, and stock quantity. A book should be published by atleast one publisher and may belong to specific genres, each defined by a unique GenreID, name, and description, allowing better classification and search functionalities. The Publication table contains details of the publishers who publish one or more books.

Customers have unique CustomerID and include details such as name, email, phone number, and address. Customers can place multiple orders, but they may not always have an active order. Each order is linked to a unique OrderID, containing date and order amount. The OrderDetail table manages information about books within each order, tracking the quantity of each book purchased and calculating subtotal amounts.

The system tracks payments, storing payment date, method, and total amount per order to ensure secure transactions. Suppliers are responsible for maintaining inventory, with each supplier having a unique SupplierID, contact details, and inventory records. Inventory management ensures stock levels are maintained to avoid shortages.

The system maintains data integrity through entity relationships, ensuring accurate order processing, structured inventory management, and seamless customer interactions. Designed for scalability, the system supports growing book collections and customer bases, optimizing the efficiency of online book sales operations.