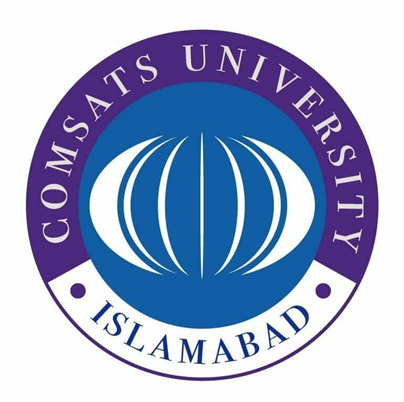
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**Database Project**

**Deliverable 1**

**Name Pakeeza Hassan**

**Reg No FA23-BSE-151**

**Section B**

**Submitted To Mam Mahrukh Saleem**

**Bookstore Management System**

The **Bookstore Management System** streamlines bookstore operations by efficiently managing sales, customer orders, and staff tasks. It automates processes like tracking book availability, processing orders, and overseeing supplier and employee activities, ensuring smooth, accurate, and efficient store management for better customer service and operational efficiency.

**Purpose:**

The primary purpose of the **Bookstore Management System DBMS** is to provide a structured and efficient framework for managing bookstore operations. This includes handling **book inventory, customer transactions, order processing, supplier management, and employee records**.

The system keeps track of each **book’s title, BookID, author, genre, ISBN, publisher, publication year, and stock availability**. It also maintains detailed **customer records, including CustomerID, name, email, phone number, and address**, ensuring seamless order management. Additionally, it stores **employee details, such as EmployeeID, name, contact information, hire date, salary, and role (Manager or Cashier)**, to manage staff responsibilities efficiently.

**Entities:**

**Book**

The **Book** entity stores information about the books available in the bookstore. Each book has a unique **BookID**, which helps to identify it. The **Title** of the book is also stored, along with the **AuthorID**, which links to the author of the book. The **GenreID** indicates the category the book belongs to. Additionally, each book has an **ISBN** number, its **PublisherID**, its **PublicationYear**. Additionally, the **Stock** attribute tracks the available quantity of each book in the bookstore.

**Author**

The **Author** entity contains details about the writers of the books. Each author has a unique **AuthorID** for identification, and their **Name** is recorded. The system allows linking multiple books to a single author, making it easier to manage and track their published works.

**Genre**

The **Genre** entity categorizes the books into different types to help with organization. Each genre has a unique **GenreID** and a **Name**. This classification helps customers and staff quickly find books based on their interests and preferences.

**Customer**

The **Customer** entity stores information about people who purchase books from the store. Each customer has a unique **CustomerID**, and their **Name**, **Email** address, **PhoneNo**, and physical **Address** are also recorded. It helps in managing customer orders, tracking purchase history, and providing personalized services.

**Order**

The **Order** entity tracks customer orders and links customers to the books they have purchased. Each order has a unique **OrderID**, and it is associated with the **CustomerID** of the person who placed the order and the **BookID** of the book included in the order. Each order is linked to the **EmployeeID** of the employee who handled the order. The **OrderDate** indicates when the order was made.

**Publisher**

The **Publisher** entity holds information about the companies that publish the books. Each publisher has a unique **PublisherID**, and their **Name**, **PhoneNo**, **Email**are stored for reference. It enables efficient communication with publishers for book restocking and new releases.

**Supplier**

The **Supplier** entity tracks the suppliers who provide books to the bookstore. Each supplier has a unique **SupplierID**, and their **Name**, **PhoneNo**, **Email**, and **Address** are recorded to ensure efficient communication and restocking.

**Employee**

The **Employee** entity contains information about the bookstore staff. Each employee is identified by a unique **EmployeeID**. The **Name** records their name, while **PhoneNo**, **Email** includes phone numbers and email addresses for communication. The **HireDate** shows when they joined the bookstore. The **Salary** attribute records their compensation. Employees are further classified into 2 sub-categories based on**Position** they are holding as **Manager**, with Bonus and **Cashier** with Shift.