



**COMSATS University, Islamabad**  
**Department of Computer Science**  
**Assignment#2**

---

**Deadline: 13/10/2024**

**Mapped to CLO2**

.....

“Mr. Books” is an online bookstore for all ages and interests. Mr. Books offers a wide range of books, from bestsellers to rare collector's items. The bookstore also provides services such as book recommendations, customer reviews, and personalized reading lists. As the lead software architect at Mr. Books, you are tasked to create a class diagram for the online system by keeping in view the following requirements:

**Books:** There are different categories of books, such as FictionBook, NonFictionBook, and ScienceFictionBook. Each book has a title, author(s), ISBN, and price.

**Customers:** Mr. Books customers can have a customer ID, name, and address.

**Reviews:** Customers can leave reviews for books. Each review has a rating and comments.

**Recommendations:** The system provides personalized book recommendations to customers based on their reading history.

**Orders:** Customers can place orders for books. The system should be able to store order ID, order date, and the list of books ordered.