**Library Book Borrowing System**

**Problem Statement: Library Book Borrowing System**

**Objective:**

Develop a **C# console application** to help a public library manage and track which members borrow which books. The system should support storing borrow records, maintaining a unique list of books in the library, grouping borrow data by book titles, and filtering borrow data using LINQ.

**Requirements:**

1. **Library Members**
   * Each library member has a unique ID and a name.
2. **Book Inventory**
   * Maintain a list of unique book titles available in the library using a HashSet<string> to ensure no duplicate entries.
3. **Borrow Records**
   * Use a List<BorrowRecord> to track which member borrowed which book and when.
   * Each record contains:
     + Member
     + Book Title
     + Borrow Date
4. **Data Grouping and Queries**
   * Group all borrow records by book title using LINQ GroupBy.
   * Display a list of members who borrowed each book.
   * Use LINQ to:
     + Find all books borrowed by a specific member.
     + List all members who borrowed a specific book.
5. **Output**
   * Display:
     + All unique books in the library.
     + Borrow records grouped by book.
     + A filtered list of borrowings based on specific member or book.

**Skills Practiced:**

* Using collections like List<T> and HashSet<T>.
* LINQ operations for grouping (GroupBy), filtering (Where), and projection (Select).
* Object-oriented programming with custom classes (Member, BorrowRecord).
* Simple console-based application logic in C#.

**Example Use Cases:**

* The librarian can check all members who have borrowed "The Hobbit."
* The system prevents duplicate book entries in the library’s catalog.
* Find all books borrowed by a member named "Emma."