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Problem 3: Library Management System -----
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// Approach: Implement Book, User, and Transaction entities. Handle lending and return logic with transaction status updates.

```
@Entity
public class Book {
  @ld
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private Long bookld;
  private String title;
  private String author;
  private String category;
  private boolean availability;
}
@Entity
public class User {
  @ld
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private Long userId;
  private String name;
  private String membershipType;
}
@Entity
public class Transaction {
  @ld
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private Long transactionId;
  @ManyToOne
  private Book book;
  @ManyToOne
  private User user;
  private LocalDate issueDate;
  private LocalDate returnDate;
  private String status;
```

}