# LOAN

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Attributes:

* -loanId: int
* -bookId: int
* -memberId: int
* -issueDate: Date
* -dueDate: Date
* -returnDate: Date
* -status: String

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Methods:

* +issueBook()
* +returnBook()
* +checkLoanStatus()

# RESERVATION

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Attributes:

* -reservationId: int
* -bookId: int
* -memberId: int
* -reservationDate: Date
* -status: String

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*  Methods:
  + +reserveBook()
  + +cancelReservation()
  + +checkReservationStatus()

# CATEGORY

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 Attributes:

* -categoryId: int
* -categoryName: String

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Methods:

* +addCategory()
* +updateCategoryDetails()

# PUBLISHER

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Attributes:

* -publisherId: int
* -name: String
* -address: String

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*  Methods:
  + +addPublisher()
  + +updatePublisherDetails()

# AUTHOR

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Attributes:

* -authorId: int
* -name: String
* -biography: String

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*  Methods:
  + +addAuthor()
  + +updateAuthorDetails()

# REVIEW

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Attributes:

* -reviewId: int
* -bookId: int
* -memberId: int
* -rating: int
* -comment: String
* -reviewDate: Date

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Methods:

* +addReview()
* +updateReview()
* +deleteReview()

# FINE

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 Attributes:

* -fineId: int
* -loanId: int
* -amount: double
* -paymentDate: Date

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Methods:

* +calculateFine()
* +payFine()
* +checkFineStatus()

# INVENTORY

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 Attributes:

* -inventoryId: int
* -bookId: int
* -totalCopies: int
* -availableCopies: int

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Methods:

* +updateInventory()
* +checkInventoryStatus()

# MEMBER

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Attributes:

* -memberId: int
* -name: String
* -address: String
* -phoneNumber: String
* -email: String
* -membershipDate: Date

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*  Methods:
  + +registerMember()
  + +updateMemberDetails()
  + +viewBorrowedBooks()

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# BOOK

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 Attributes:

* -bookId: int
* -title: String
* -ISBN: String
* -publicationYear: int
* -copiesAvailable: int

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*  Methods:
  + +addBook()
  + +RemoveBook()
  + +updateBookDetails()
  + +checkAvailability()