

Assignment 5 Library Program Design

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Class	Description	Justification
Library	This class represents the library system. Manages members, catalog, loans, and other methods for operations.	Primary class for managing all aspects of the library system.
Member	This class represents a library member. Stores member information and provides methods for member operations.	This would be needed for managing member data, registration, and interactions.
AdultMember	This class represents an adult library member. Inherits from Member class and includes additional information.	Specific subclass to handle adult member details and interactions.
ChildMember	This class	Subclass to handle

	represents a child library member. Inherits from Member class and includes guardian information.	child member details, including guardian association.
Material	This class represents library materials like books, DVDs and Magazines. Stores information about each material item.	Essential for managing material data and attributes.
Item	This class represents individual items in the library catalog. Links materials to unique references.	Necessary for tracking individual items, their status, and associations with materials.
Loan	This class represents a loan transaction between a member and an item. Stores loan details and due dates.	Needed for managing loan transactions, including due dates and member-item associations.

