Library

- catalogue: List<LibraryResource>

+Library()
+addResource(LibraryResource resource): void
+searchByTitle(String title): void
+searchByAuthorSurname(String suranme): void
+editAuthorFirstName(LibraryResource resource, String newFirstName): void
+containsResource(LibraryResource resource): boolean
+printPhysicalBooks(): void
+printElectronicResources(): void
+removeResource(LibraryResource resource): void
+removeResourceAtPosition(int position): void
+printAvailableBooks(): void
+getResourceCount(): int
+lendBook(PhysicalBook book, LibraryMember member): void
+acceptBookReturn(PhysicalBook book, boolean recordDamage, String damageDescription): void

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LibraryResource

- title: String

+LibraryResource(String title)
+getTitle(): String
+setTitle(boolean downloadable): void
+getDetails(): String
+printDetails(): void

LibraryGuest

- accessDuration: int

+LibraryGuest(int accessDuration)
+getAccessDuration(): int

PhysicalBook

- ISBN: String
- author: Author
- libraryMember: LibraryMember
- damages: List<String>

+PhysicalBook(String title, String isbn, Author author)
+getIsbn(): String
+setIsbn(String isbn): void
+getAuthor(): Author
+setAuthor(Author author): void
+getLibraryMember(): LibraryMember
+setLibraryMember(LibraryMember libraryMember): void
+getDamages(): List<String>
+setDamages(List<String> damages): void
+addDamage(String damage): void
+isAvailable(): boolean
+printDetails(): void
+getDetails(): String

ElectronicResource

- downloadabe: boolean

+ElectronicResource(String title, boolean downloadable)
+isDownloadable(): boolean
+setDownloadable(boolean downloadable): void
+getDetails(): String

LibraryMember

- id: int
- borrowedBooks

+LibraryMember()
+getId(): int
+setId(int id): void
+getBorrowedBooks(): List<PhysicalBook>
+addBorrowedBook(book: PhysicalBook): void
+removeBook(book: PhysicalBook): void
+numberOfBorrowedBooks(): int
+getDetails(): String
+printDetails(): void

Author

- firstName: String
- surname: String
- address: String

+getFirstName(): String
+setFirstName(firstName: String): void
+getSurname(): String
+setSurname(surname: String): void
+getAddress(): String
+setAddress(address: String): void
+getDetails(): String
+printDetails(): void