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| **Functional Requeriment** | **Class name** | **Method name** |
| FR1: Manage users, regular and premium | Class ReadXSystem | RegisterReader() |
| Class ControllerLibrary | addReader(), checkIdReaders() |
| Class Reader | Reader() |
| Class Premium | Premium() |
| Class Regular | Regular() |
| FR2: Manage bibliographic products | Class ReadXSystem | manageBibliographicProduct() |
| Class ControllerLibrary | addBook(), addMagazine(), editBook(), editMagazine(), removeProducts() |
| Class BibliographicProduct | BibliographicProduct(), set() |
| Interface CreateID | createID() |
| Class Book | Book(), set(), createID() |
| Class Magazine | Magazine(), set(),createID() |
| FR3: Generate objects automatically | Class ReadXSystem | generateAutomaticProducts() |
| Class ControllerLibrary | initBasicProducts() |
| Class BibliographicProduct | BibliographicProduct() |
| Interface CreateID | createID() |
| Class Book | Book(),createID() |
| Class Magazine | Magazine(),createID() |
| Class Reader | Reader() |
| Interface AddProduct | addBook(), addMagazine() |
| Class Premium | Premium(),addBook(), addMagazine() |
| Class Regular | Regular(),addBook(), addMagazine() |
| FR4: Consult bibliographic products by name | Class ReadXSystem | consultBibliographicProducts() |
| Class ControllerLibrary | consultCodeBibliographicProdu cts() |
| Class BibliographicProduct | getNameProduct(), getIdProduct() |
| FR5: Allow a user to buy a book | Class ReadXSystem | readerBuyBook() |

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|  | Class ControllerLibrary | agreggateBookToReader(), consultObjectReader(), consultObjectBibliographicProd uct(),searchNumberBibliographi cProduct(),searchNumberReade r() |
| Interface AddProduct | addBook() |
| Class Reader | addAmountSales(), addBook() |
| FR6: Allow a user to subscribe to a magazine | Class ReadXSystem | aggregateMagazineOfReader() |
| Class ControllerLibrary | agreggateMagazineToReader(), consultObjectReader(), consultObjectBibliographicProd uct(),searchNumberBibliographi cProduct(),searchNumberReade r() |
| Interface AddProduct | addMagazine() |
| Class Reader | addMagazine(), addAmountSales() |
| FR7: Allow a user to unsubscribe from a magazine | Class ReadXSystem | cancelSubscriptionMagazineOf Reader() |
| Class ControllerLibrary | cancelMagazineOfReader(),con sultObjectReader(), consultObjectBibliographicProd uct(),searchNumberBibliographi cProduct(),searchNumberReade r() |
| Interface AddProduct | removeProduct() |
| Class Reader | removeProduct() |
| FR8: Present your library of bibliographic products to the user | Class ReadXSystem | presentLibraryReader() |
| Class ControllerLibrary | consultObjectReader(), showLibraryUser(), enterProductsToTensorLibrary() getNumberMatrixOfLibrary(), getLibraryUser() |
| Class Reader | returnBibliographicProductsByDate(), getNameReader(), getIdProduct() |
| FR9: Allow a user to simulate a read session | Class ReadXSystem | presentLibraryReader() |
| Class ControllerLibrary | readingSession(),checkUserHav eAProduct(),consultObjectRead er(), consultObjectBibliographicProd uct(),searchNumberBibliographi cProduct(),searchNumberReade r(),addNumberPagesRead, |
| Class Reader | checkUserHaveAProduct(), addNumberPagesRead(), caddAmountSessionPage(), decreaseAmountSesionPage(), getNumberPages(), getCurrentSessionPage(), getNameProduct(), getLastSessionPage() |
| FR10: Report the accumulated total number of pages read for each type of bibliographic product | Class ReadXSystem | generateReports() |
| Class ControllerLibrary | amountReadPagesByProductType() |
| Class BibliographicProduct | getAmountPagesRead() |
| FR11: Report the most read book genre and magazine category on the platform | Class ReadXSystem | generateReports() |
| Class ControllerLibrary | genderAndCategoryMoreRead() |
| Class BibliographicProduct | getAmountPagesRead(), getGender(), getCategory() |
| FR12: Report the Top 5 most read books and Top 5 most read magazines on the platform | Class ReadXSystem | generateReports() |
| Class ControllerLibrary | topFiveBooksAndMagazinesMostRead() |
| Class BibliographicProduct | getNameProduct(), getAmountPagesRead() |
| FR13: For each gender, report the number of books sold and the total value of sales | Class ReadXSystem | generateReports() |
| Class ControllerLibrary | amountSoldBooksAndValueByGender() |
| Class BibliographicProduct | getGender(), getValueProduct() |
| FR14: For each category, report the number of active subscriptions and the total value paid for subscriptions | Class ReadXSystem | generateReports() |
| Class ControllerLibrary | amountSoldMagazinesAndValueByCategory() |
| Class BibliographicProduct | getCategory(), getValueProduct() |