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| --- | --- | --- |
| **Functional requirement** | **Class name** | **Operation name** |
| FR1 Register user | ui/ReadXApp | registerUser() |
| model/Company | addUser() |
| model/Company | searchUser() |
| model/User | getId() |
| model/RegularUser | RegularUser() |
| model/PremiumUser | PremiumUser() |
| FR2 Register product | ui/ReadXApp | registerProduct() |
| model/Company | addProduct() |
| model/Company | searchProduct() |
| model/Product | getId() |
| model/Book | Book() |
| model/Magazine | Magazine() |
| FR3 Edit product | ui/ReadXApp | editProduct() |
| model/Company | showProductList() |
| model/Product | getName() |
| model/Product | getId() |
| Model/Company | editProduct() |
| model/Company | searchProduct() |
| model/Product | setName() |
| model/Product | setPagesNumber() |
| model/Product | setPublicationDate() |
| model/Product | setUrl() |
| model/Product | setValue() |
| model/Book | setReview() |
| model/Book | setGenre() |
| model/Magazine | setIssuanceFreq() |
| model/Magazine | setCategory() |
| FR4 Delete product | ui/ReadXApp | deleteProduct() |
| model/Company | showProductList() |
| model/Product | getName() |
| model/Product | getId() |
| model/Company | deleteProduct() |
| model/Company | searchProduct() |
| FR5 Generate objects | ui/ReadXApp | generateObjects() |
| model/Company | generateObjetcs() |
| model/RegularUser | RegularUser() |
| model/PremiumUser | PremiumUser() |
| model/Book | Book() |
| model/Magazine | Magazine() |
| model/User | toString() |
| model/Book | toString() |
| model/Magazine | toString() |
| FR6 Buy book | ui/ReadXApp | buyBook() |
| model/Company | buyBook() |
| model/Product | toString() |
| model/Company | searchProduct() |
| model/Product | getId() |
| model/Company | searchUser() |
| model/User | getId() |
| model/RegularUser | addBook() |
| model/PremiumUser | addProduct() |
| model/Invoice | Invoice() |
| model/Product | getValue() |
| model/Book | getCopiesSold() |
| model/Book | setCopiesSold() |
| model/Invoice | toString() |
| FR7 Subscribe magazine | ui/ReadXApp | subscribeMagazine() |
| model/Company | subscribeMagazine() |
| model/Product | toString() |
| model/Company | searchProduct() |
| model/Product | getId() |
| model/Company | searchUser() |
| model/User | getId() |
| model/RegularUser | addMagazine() |
| model/PremiumUser | addProduct() |
| model/Invoice | Invoice() |
| model/Product | getValue() |
| model/Magazine | getActiveSubscriptions() |
| model/Magazine | setActiveSubscriptions() |
| model/Invoice | toString() |
| FR8 Unsubscribe magazine | ui/ReadXApp | unsubscribeMagazine() |
| model/Company | unsubscribeMagazine() |
| model/RegularUser | getMagazines() |
| model/PremiumUser | getProducts() |
| model/Product | getName() |
| model/Product | getId() |
| model/Company | searchProduct() |
| model/Company | searchUser() |
| model/User | getId() |
| model/RegularUser | removeMagazine() |
| model/PremiumUser | removeMagazine() |
| model/Magazine | getActiveSubscriptions() |
| model/Magazine | setActiveSubscriptions() |
| FR9 Display my library | ui/ReadXApp | displayMylibrary() |
| model/Company | displayMylibrary() |
| model/Company | searchUser() |
| model/User | getId() |
| model/RegularUser | showLibrary() |
| model/PremiumUser | showLibrary() |
| model/Product | getPublicationDate() |
| model/User | fillLibrary() |
| model/Product | getId() |
| FR10 Simulate reading sesion | ui/ReadXApp | displayMylibrary() |
| model/Company | displayMylibrary() |
| model/Company | searchUser() |
| model/User | getId() |
| model/RegularUser | showLibrary() |
| model/PremiumUser | showLibrary() |
| model/Product | getPublicationDate() |
| model/User | fillLibrary() |
| model/Product | getId() |
| ui/ReadXApp | simulateReadingsesion() |
| model/Company | simulateReadingsesion() |
| model/RegularUser | searchProduct() |
| model/announceable | displayAds() |
| model/RegularUser | displayAds() |
| model/PremiumUser | searchProduct() |
| model/Product | getPagesNumber() |
| model/Product | getName() |
| model/Product | getPagesRead() |
| model/Product | setPagesRead() |
| FR11 Report pages read per product type | ui/ReadXApp | reportPagesReadPerProductType() |
| model/Company | getPagesReadPerProductType() |
| model/Product | getPagesRead() |
| FR12 Report genre and category most read | ui/ReadXApp | reportGenreAndCategoryMostRead() |
| model/Company | getGenreAndCategoryMostRead() |
| model/Book | getGenre() |
| model/Magazine | getCategory() |
| model/Product | getPagesRead() |
| F13 Report Top 5 most read products per type | ui/ReadXApp | reportTop5MostReadProductsPerType() |
| model/Company | getTop5MostReadProductsPerType() |
| model/Product | getPagesRead() |
| model/Product | getName() |
| F14 Report number of books sold and total sales value per genre. | ui/ReadXApp | reportSoldNumAndTotalPaidPerGenre() |
| model/Company | getSoldNumAndTotalPaidPerGenre() |
| model/Invoice | getProduct() |
| model/Book | getGenre() |
| model/Invoice | getAmountPaid() |
| F15 Report number of active subscriptions and total paid value per category. | ui/ReadXApp | reportActSubsAndTotalPaidPerCategory() |
| model/Company | getActSubsAndTotalPaidPerCategory() |
| model/Invoice | getProduct() |
| model/Magazine | getCategory() |
| model/Magazine | getActiveSubscriptions() |
| model/Invoice | getAmountPaid() |