

Client	ReadX
User	Regular / Premium Users and Company Member
Functional Requirements	FR0: Register user FR1: Manage bibliographic products FR2: Purchase a book FR3: Subscribe a magazine FR4: Simulate reading session FR5: Show user library FR6: Generate Reports
Problem Context	ReadX, an Egyptian conglomerate, has hired a programmer to develop a software prototype to manage their global publishing business.
No Functional Requirements	NFR1: Ability to anticipate changes in the publishing industry and the creation of future types of bibliographic products and users. NFR2: Generate objects automatically in the system for each type of user and bibliographic product.

Identifier and Name	FR0 Register User		
Summary	Registering both regular and premium users on the platform. To register a user, the following data is required: name, identification number, date of joining.		
Inputs	Input Name	Data Type	Valid Values
	name	String	
	id	String	

	registration_date	Calendar	
Post-Condition	The user is correctly registered in the system.		
Outputs	Output Name	Data Type	Format
	msg_success	String	User registered successfully
	msg_fail	String	Something wrong

Identifier and Name	FR1 Manage bibliographic products		
Summary	Registering, modifying, and deleting books and magazines in the system. Each book has a unique identifier, name, number of pages, concise review, publication date, genre, URL that leads to a repository with the book cover, sale value, number of copies sold, and the accumulated number of pages read. Each magazine has a unique identifier, name, number of pages, publication date, category, URL that leads to a repository with the magazine cover, subscription value, frequency of issuance, number of active subscriptions and accumulated number of pages read.		
Inputs	Input Name	Data Type	Valid Values
	type	String	Book, Magazine
	id	String	Book: 3 hexadecimal characters Magazine: 3 alphanumeric characters
	name	String	
	pages	int	
	review	String	
	date	Calendar	
	genre	String	
	url	String	
	price	String	dollar \$
	sold_copies	int	

	pages_readed	int	
	active_subscriptions	int	
	issuance_frequency	int	
Post-Condition	The bibliographic products are correctly registered, or show an error message.		
Outputs	Output Name	Data Type	Format
	msg_success	String	The book/magazine are registered/modified/deleted successfully
	msg_fail	String	Something wrong

Identifier and Name	FR2 Purchase a book		
Summary	Allow the user to select a book from the list of available books and purchase it.		
Inputs	Input Name	Data Type	Valid Values
	id	String	3 hexadecimal characters
Post-Condition	The book is added to the user's library, or shows an error message.		
Outputs	Output Name	Data Type	Format
	msg_success	String	Book added ^^
	msg_fail	String	Something wrong

Identifier and Name	FR3 Subscribe a magazine		
Summary	Allow the user to select a magazine from the list of available magazines and subscribe to it.		
Inputs	Input Name	Data Type	Valid Values
	id	String	3 alphanumeric characters
Post-Condition	The magazine is added to the user's library or shows an error		

	message.		
Outputs	Output Name	Data Type	Format
	msg_success	String	Book added ^^
	msg_fail	String	Something wrong

Identifier and Name	FR4 Simulate reading session		
Summary	Allow the user to select a book or magazine from their library and simulate reading it. The user can specify the number of pages he wants to read and the system will update the accumulated number of pages read for that bibliographic product.		
Inputs	Input Name	Data Type	Valid Values
	user_id	String	
	to_read_id	String	3 characters (hexadecimal or alphanumeric)
	option	String	A = "Página anterior" B = "Volver a la Biblioteca" S = "Siguiente página"
Post-Condition	Accumulated number of pages read for the selected bibliographic product is updated in the system. This means that after simulating a reading session, the system will have an accurate record of the total number of pages that the user has read for that particular book or magazine.		
Outputs	Output Name	Data Type	Format
	msg_success	String	Reading message with the count of pages and options to navigate [show a random ad each 20 pages if is a book or 5 pages if is a magazine if the user is regular]
	msg_fail	String	Something wrong

Identifier and Name	FR5 Show user library		
Summary	Display a list of all the books and magazines that the user has purchased or subscribed to on the platform.		
Inputs	Input Name	Data Type	Valid Values
	id	String	
	option	String	A = "Página anterior" E = "Salir" S = "Siguiente página"
Post-Condition	The user can view their library of bibliographic products and can start a reading session, if not have bibliographies products show a message		
Outputs	Output Name	Data Type	Format
	msg_success	String	5x5 matrices
	msg_fail	String	You no have books or magazines

Identifier and Name	FR6 Generate reports		
Summary	Display reports of: the total number of pages read for each type of bibliographic product, the most-read book genre and magazine category, the top 5 most-read books and magazines, the number of books sold and total sales value for each genre, and the number of active subscriptions and total subscription value for each category.		
Inputs	Input Name	Data Type	Valid Values
Post-Condition	Provide reports based on the data recorded in the system.		
Outputs	Output Name	Data Type	Format
	msg_success	String	All the data
	msg_fail	String	Something wrong