

TABLA DE ESPECIFICACIÓN DEL PROBLEMA DE INGENIERÍA DE SOFTWARE, identificando los siguientes elementos

CLIENTE	Dueño de la empresa RadX
USUARIO	Cualquier persona interesada en tener una biblioteca de libros y revistas
REQUERIMIENTOS FUNCIONALES	<p>R1: Registrar usuarios, regulares y premium.</p> <p>R2. Gestionar productos bibliográficos:</p> <ul style="list-style-type: none"> ● registrar libros y revistas. ● modificar libros y revistas. ● borrar libros y revistas. <p>R3. Generar automáticamente objetos en el sistema para cada tipo de usuario y producto bibliográfico.</p> <p>R4. Permitir a un usuario comprar un libro o suscribirse a una revista.</p> <p>R5. Permitir a un usuario simular una sesión de lectura (regular y premium).</p>
CONTEXTO DEL PROBLEMA	La empresa ReadX, un conglomerado egipcio, contrata a diferentes personas para desarrollar un prototipo de software que les permita gestionar su negocio de publicaciones a nivel mundial. Este negocio se basa en la venta de dos tipos de productos bibliográficos (Libros y revistas). Los programadores deben hacer que esta app sea amena y tenga las funcionalidades que están en los requerimiento funcionales.
REQUERIMIENTOS NO FUNCIONALES	<p>RN1: Usabilidad: La aplicación debe ser fácil y cómoda de usar para el usuario, con una interfaz intuitiva y clara.</p> <p>RN2: Seguridad: La aplicación debe ser segura y proteger la información privada del usuario, como su información de pago y datos personales.</p> <p>RN3: Escalabilidad: La aplicación debería ser capaz de manejar sin problemas muchísimos clientes y productos bibliográficos sin afectar la calidad del servicio.</p>

	<p>RN4: Disponibilidad: La aplicación debe estar disponible todo el tiempo y ser resistente a fallos.</p> <p>RN5: Mantenibilidad: El código debe ser fácil de leer, mantener y actualizar a medida que se agreguen nuevas funcionalidades.</p> <p>RN6: Rendimiento: La aplicación debe responder en un tiempo razonable a medida que se agregan nuevos productos y usuarios, y las funcionalidades utilizadas deben ser rápidas y eficientes.</p> <p>RN8: Adaptabilidad: La aplicación debe ser adaptable para ser ejecutada en diferentes dispositivos y plataformas.</p>
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Tabla de análisis de requerimientos funcionales (Nota: Una tabla por cada requerimiento funcional)

Name or identifier	R1: Register users, regular and premium.		
Summary	In this requirement it is stated that there can be 2 users, one premium and one regular, the premium user can purchase any book and magazine he/she wants, the regular user can purchase 5 books, subscribe to up to 2 magazines and during his/her use of the platform.		
Input	Name of entry	Data type	Selection or repetition condition
	userType	int	enter number to know which user you want to be 1.Regular 2. Premium
	name	String	Type the user's name
	cc	String	Enter the user's identification number
	date	Calendar	Instantaneous date
Result or postcondition	Retorna un mensaje que diga si se creo o no el usuario		
Output	Name of entry	Data type	Selection or repetition condition
	message	String	"The user has been registered" or "The user can not be registered"

Name or identifier	R2: Manage bibliographic products: Modify books and journals		
Summary	I divided this requirement into 3 so that it would not be so long in terms of registering, modifying and deleting, for this you need all the data of the book or journal.		
Input	Name of entry	Data type	Selection or repetition condition
	idB (for book) idM (for magazine)	String	enter the book or magazine id
	nameBP (for book) namePB (For magazine)	String	Type the book or magazine name
	numPagesB (for book) numPagesM (for magazine)	int	enter the number of pages in the magazine or book
	dayB (for book) dayM (for magazine) monthB(for book) monthM (for magazine) yearB (for book) yearM (for magazine)	int	enter the day, month and year number of the date or magazine publication dd/mm/yy
	URLb (for book) URLm (for magazine)	String	the url of the book or magazine
	acumReadPagesB (for book) acumReadPagesM (for magazine)	int	enter the number of pages read
	reviewShort (only for book)	String	review for the book (max 100 words)
	genderIndex (for book) categoryIndex (for magazine)	int	for the book "Enter the genre (1. Science Fiction, 2. Fantasy, 3. Historical novel)" for magazine "Enter the category index (1. Varieties, 2. Design, 3. Scientific):"
	sellingValue (for book) valueSubscription (for magazine)	double	sales value of a book and subscription to a magazine
	emissionPeriod (for magazine) numCopies (for book) numSubscription (for magazine)	String int	period of issue of the magazine number of copies sold per book and number of subscribers
Result or postcondition	Retorna un mensaje que diga si se creo o no el libro o la revista		
Output	Name of entry	Data type	Selection or repetition condition
	message	String	"Book registered successfully", "Magazine registered successfully" or "The book could not be registered", "Error registering magazine"

Name or identifier	R2: Manage bibliographic products: Modify books and journals		
Summary	I divided this requirement into 3 so that it would not be so long in terms of registering, modifying and deleting, for this you need all the data of the book or journal.		
Input	Name of entry	Data type	Selection or repetition condition
	optionModify	int	according to the books which one you want to modify
	idBModify (for book) idMModify (for magazine)	String	enter the book or magazine id
	nameBPMModify (for book) namePBMModify (For magazine)	String	Type the book or magazine name
	numPagesBModify (for book) numPagesMModify (for magazine)	int	enter the number of pages in the magazine or book
	dayBModify (for book) dayMModify (for magazine) monthBModify(for book) monthMModify (for magazine) yearBModify (for book) yearMModify (for magazine)	int	enter the day, month and year number of the date or magazine publication dd/mm/yy
	URLBModify (for book) URLMModify (for magazine)	String	the url of the book or magazine
	acumReadPagesBModify (for book) acumReadPagesMModify (for magazine)	int	enter the number of pages read
	reviewShortModify (only for book)	String	review for the book (max 100 words)
	genderIndexModify (for book) categoryIndexModify (for magazine)	int	for the book "Enter the genre (1. Science Fiction, 2. Fantasy, 3. Historical novel)" for magazine "Enter the category index (1. Varieties, 2. Design, 3. Scientific):"
	sellingValueModify (for book) valueSubscriptionModify (for magazine)	double	sales value of a book and subscription to a magazine
	emissionPeriodModify (for magazine)	String	period of issue of the magazine
	numCopiesModify (for book) numSubscriptionModify (for magazine)	int	number of copies sold per book and number of subscribers
Result or postcondition	Retorna un mensaje que diga si se creo o no el libro o la revista		
Output	Name of entry	Data type	Selection or repetition condition
	message	String	"Book modify successfully", "Magazine modify successfully" or "The book could not be modify", "Error modify magazine"

Name or identifier	R2: Manage bibliographic products: Modify books and journals		
Summary	I divided this requirement into 3 so that it would not be so long in terms of registering, modifying and deleting, for this you need all the data of the book or journal.		
Input	Name of entry	Data type	Selection or repetition condition
	view	String	view the list of book or magazine
	idB (for book) idM (for magazine)	String	Enter the id of the book or magazine
	deleted	boolean	if the id corresponds, the book or magazine is deleted and if not, a message is sent.
Result or postcondition	Retorna un mensaje que diga si se creo o no el usuario		
Output	Name of entry	Data type	Selection or repetition condition
	message	String	"Book deleted successfully" or "Error deleting book"

Name or identifier	R3. Automatically generate objects in the system for each type of user and bibliographic product.		
Summary	This requirement shows the lists of the different users and bibliographic products by default.		
Result or postcondition	Retorna las listas de los usuarios y productos bibliográficos que hay		
Output	Name of entry	Data type	Selection or repetition condition
	message	String	"list users" or "list bibliographic products"

Name or identifier	R4. Allow a user to purchase a book or subscribe to a journal.		
Summary	When users purchase a book or subscribe to a journal, an invoice should be generated and the number of copies sold or active subscriptions should be updated, depending on the type of bibliographic product.		
Input	Name of entry	Data type	Selection or repetition condition
	view	String	view the list of users
	view2	String	view the list of the products (book or magazine)
	ccUser	String	enter the id of the user
	name	String	Type the user's name
	cc	String	Enter the user's identification number
	date	Calendar	Instantaneous date
Result or postcondition	Retorna un mensaje que diga si se creo o no el usuario		
Output	Name of entry	Data type	Selection or repetition condition
	message	String	"The user has been registered" or "The user can not be registered"