



**Department of Electrical,
Computer, & Biomedical Engineering**
Faculty of Engineering & Architectural Science

Course Title:	Software REQs Analysis SPEC
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Instructor:	Rasha Kashef
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<i>Assignment/Lab Number:</i>	1
<i>Assignment/Lab Title:</i>	Case Study: Buy&Sell Magazine Exchange

<i>Submission Date:</i>	2024/01/27
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Student LAST Name	Student FIRST Name	Student Number	Section	Signature*
Sarim	Shahwar	501109286	02	SS

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Case Study: Buy&Sell Magazine Exchange

List of Uses Cases:

- a. Secure Authentication
- b. Register as a Seller (Seller Info)
- c. Email Confirmation
- d. Shipment Status Check
- e. List of Magazines for Sale
- f. Send Magazine & Payment info email to the seller
- g. Purchase Magazine
- h. Email notification of shipment
- i. Create Buyer Account
- j. Payment Information
- k. Search for Magazines
- l. Maintain Index for all Magazines
- m. Service Code for Seller
- n. Magazine Availability
- o. Email notification to the buyer on their purchase
- p. Ask for Pertinent Info
- q. Category, Condition, Price

Use Case Diagram:



Use Case: Add a Seller

Scope: Buy&Sell Magazine Exchange System

Primary Actor: Seller

Stakeholders and Goals:

Seller: Seeks a straightforward and secure registration process to start selling magazines.

System: Aims to verify seller details accurately and securely to maintain a credible platform.

Preconditions:

The system must be operational and accessible by the user. The seller is not already registered in the system.

Postconditions:

The seller is registered and able to list magazines for sale. The system has updated the seller index with new seller information.

The flow of events:

- The Seller initiates the registration process on the platform.
- The system displays a registration form requesting details like name, contact, and payment information.
- The Seller fills out and submits the form.
- The system checks the provided information for accuracy and completeness.
- The system securely processes the information to create the seller's account.
- The system sends a verification email to the seller.
- The Seller verifies their email by clicking the provided link.
- The system completes the authentication and finalizes the registration.
- A confirmation of successful registration is sent to the seller.

Alternate Pathways:

- If there is any issue with the registration, the system will
 - Prompt possible corrections or missing information

Use Case Name: Record a Magazine Order

Scope: Buy&Sell Magazine Exchange System

Primary Actor: Buyer

Stakeholders and Goals:

Buyer: To purchase magazines and receive confirmation and updates regarding the shipment.

Seller: To receive orders and payment promptly and securely.

System: To ensure accurate and secure transaction processing to maintain service quality.

Preconditions:

The buyer has created an account and is logged in, and the seller's magazines are listed and available for purchase.

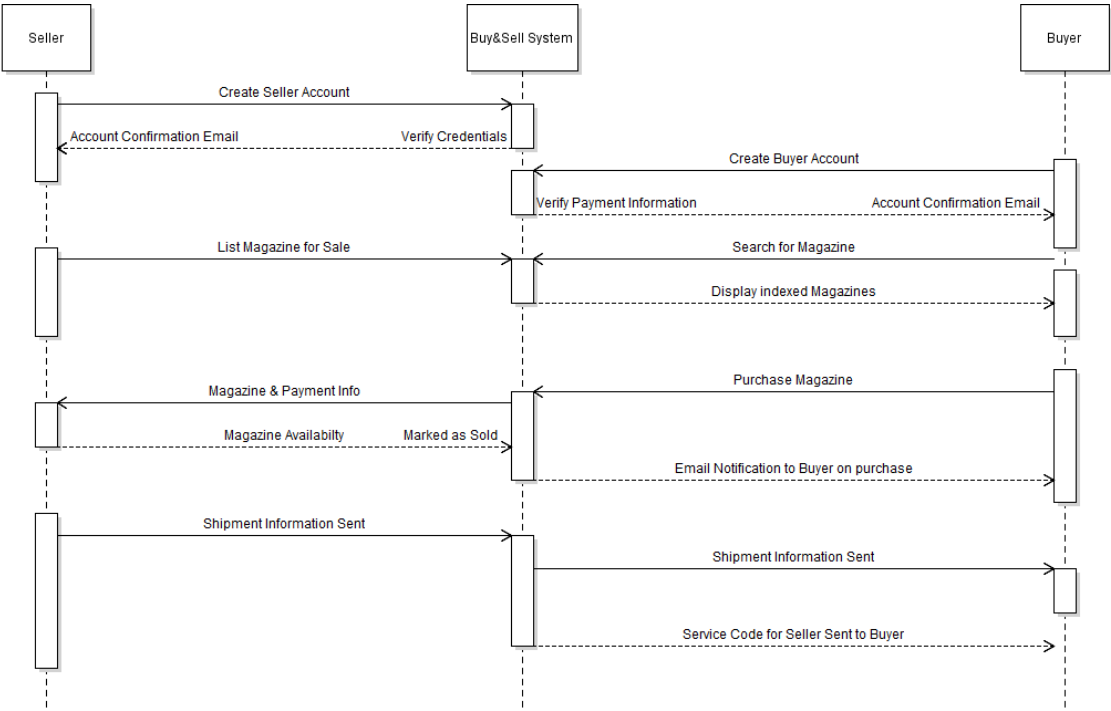
Postconditions:

When a purchase is made, the buyer's order is recorded in the system. The Payment is then processed and recorded. The seller is then notified of the sale and shipping details. Such details regarding the quality of the magazine and the shipping details are sent to the buyer.

The flow of events:

- The Buyer browses through magazines and picks one from the assortment.
- The system showcases the chosen magazine's details, such as its category, state, and cost.
- The Buyer decides to buy the magazine and inputs their payment details.
- The system securely handles the payment transaction.
- The system modifies the magazine's status to indicate it has been sold.
- An email containing details of the magazine and payment is sent to the seller by the system.
- The Buyer receives an email confirmation of their order from the system.
- The system logs the transaction data for the Buyer and the Seller accounts.

System Sequence Diagram:



Add a Seller section: The Seller initiates the registration process on the platform.
The system displays a registration form requesting details like name, contact, and payment information.
The Seller fills out and submits the form.
The system checks the provided information for accuracy and completeness.
The system securely processes the information to create the seller's account.
The system sends a verification email to the seller.
The Seller verifies their email by clicking the provided link.
The system completes the authentication and finalizes the registration.
A confirmation of successful registration is sent to the seller.

Record a Magazine Order: The Buyer browses through magazines and picks one from the assortment.
The system showcases the chosen magazine's details, such as its category, state, and cost.
The Buyer decides to buy the magazine and inputs their payment details.
The system securely handles the payment transaction.
The system modifies the magazine's status to indicate it has been sold.
An email containing details of the magazine and payment is sent to the seller by the system.
The Buyer receives an email confirmation of their order from the system.
The system logs the transaction data for the Buyer and the Seller accounts.