Questions:

1. List of Use cases and a use case diagram:

Use case 1: Registration (Seller, Buyer)

Use case 2: Logging in (seller, buyer)

Use case 3: Listing available magazines (seller)

Use case 4: Searching for a magazine (buyer)

Use case 5: Buying a magazine (buyer)
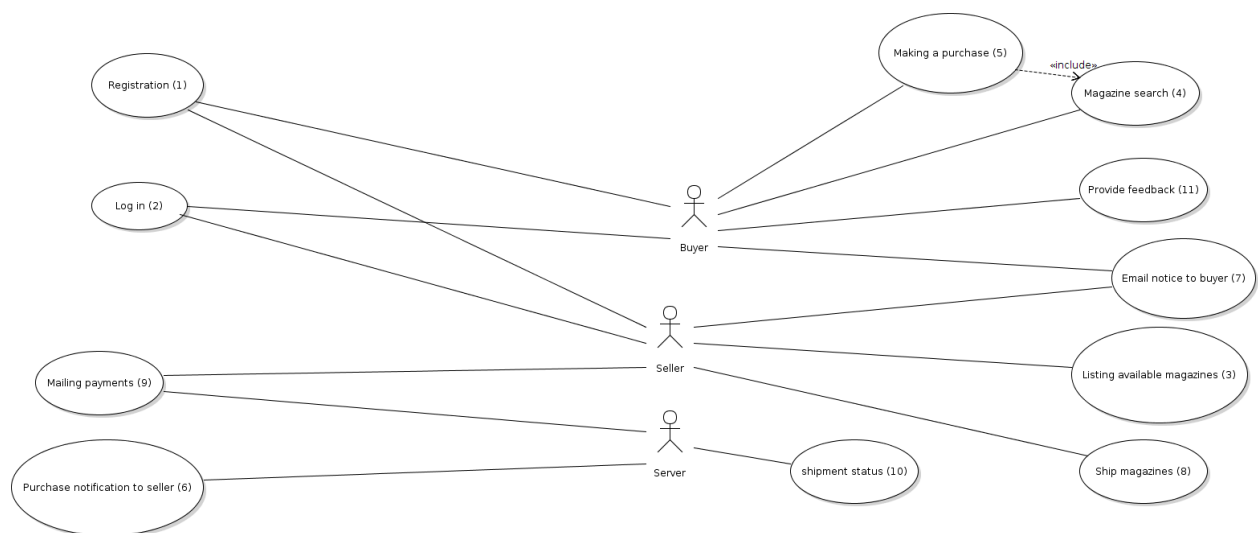
Use case 6: Email notice to seller (server)

Use case 7: Email notice to buyer (seller)

Use case 8: Ship magazine (seller)

Use case 9: Mailing payments (server, seller)

Use case 10: shipment status (server)

Use case 11: Provide Feedback (buyer)

2. Fully developed description for two use cases:

    (a) Add a seller

Use Case: Add a seller
Actors: System, Seller
Goal: The process of adding a new seller to the Buy & Sell Magazine business.
Precondition: Seller must already be registered on the website, and should have provided details such as their address, phone number and email address. Moreover, they should hace already authenticated themselves through the authentication portal.
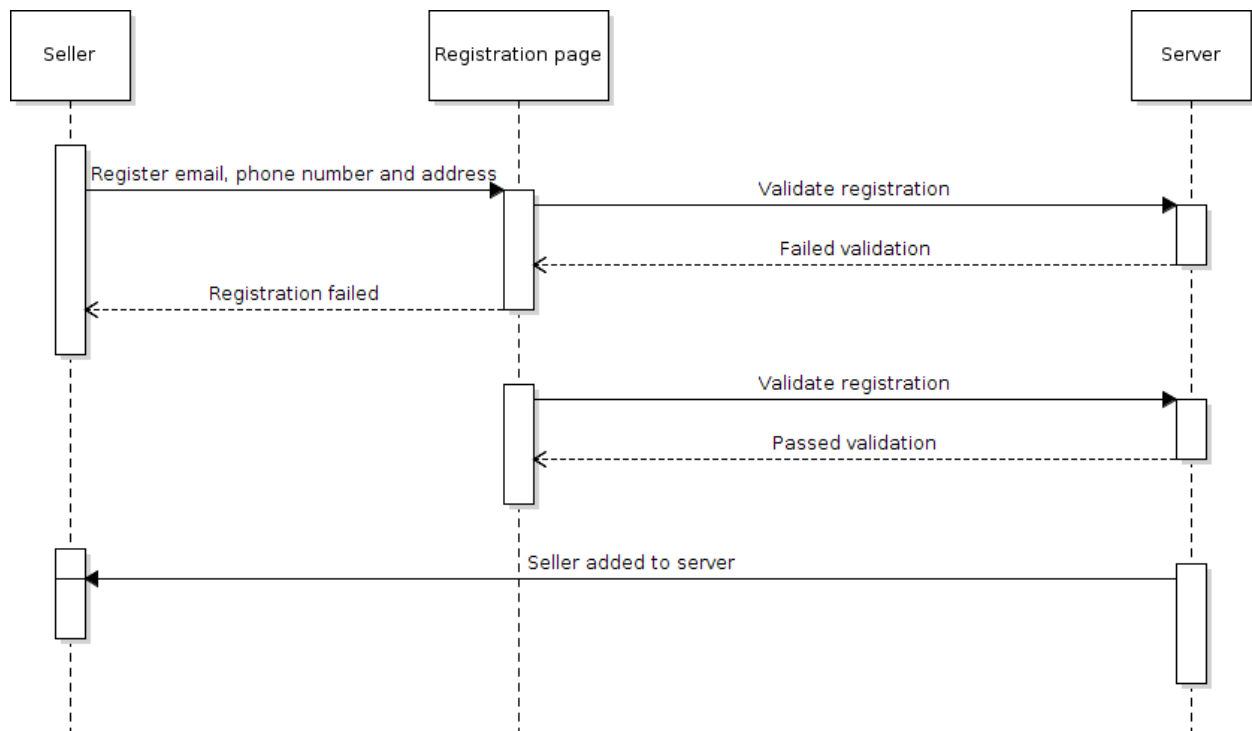
    (b) Record a magazine order

Use Case: Record a magazine order
Actors: System, Buyer, Seller
Goal: Recording a magazine order when a buyer purchases a magazine from a seller using the Buy & Sell website.
Preconditions: The buyer must have already registered on the website, have a valid credit card, and be authenticated using the portal. The seller must have also listed the magazine. Finally, both the buyer and seller must be logged in to the website.

3. Sequence Diagram:

(B) Record a magazine order

Buyer	Seller	Server

Account creation →

Buyer added to server ⇠

Account creation →

Seller authentification ⇠

Listing magazing info →

Magazine added to server ⇠

Buyer search →

Returns magazine search results ⇠

Purchase initiation →

Purchase confirmation ⇠

Purchase confirmation ←

Notify buyer ⇠

Updated shipping info →

Stores shipping info ⇠

Shipped notification ←

Shipped notification →

Updates order status ⇠