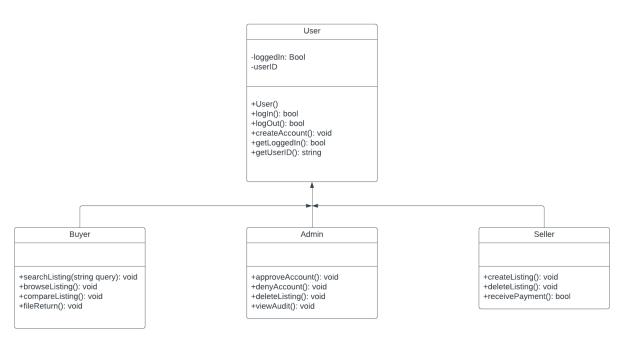
# Scenario Based Diagrams

#### Class Based Diagrams

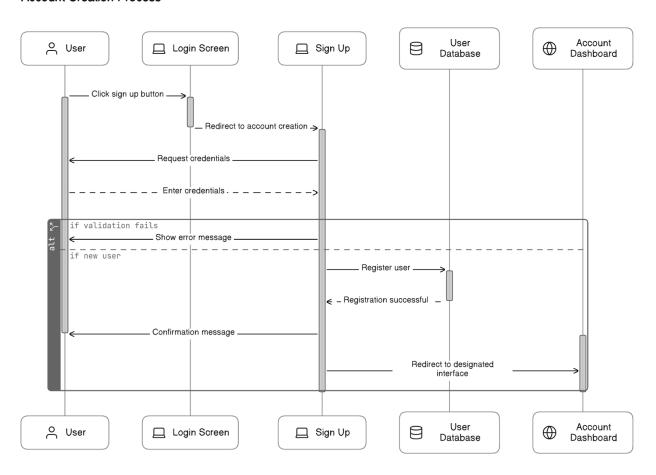


Cart	Inventory
-dbName: string	-dbName: string
+Cart() +Cart(string dbName): void +viewCart(): void +addToCart(string userID, string ISBN, string dbName): bool +removeFromCart(string userID, string ISBN, string dbName): bool +checkOut(): bool	+Inventory() +Inventory(string dbName, tableName) +viewInventory(): void +searchInventory(string query): void +decreaseStock(int quantity, string isbn): bool

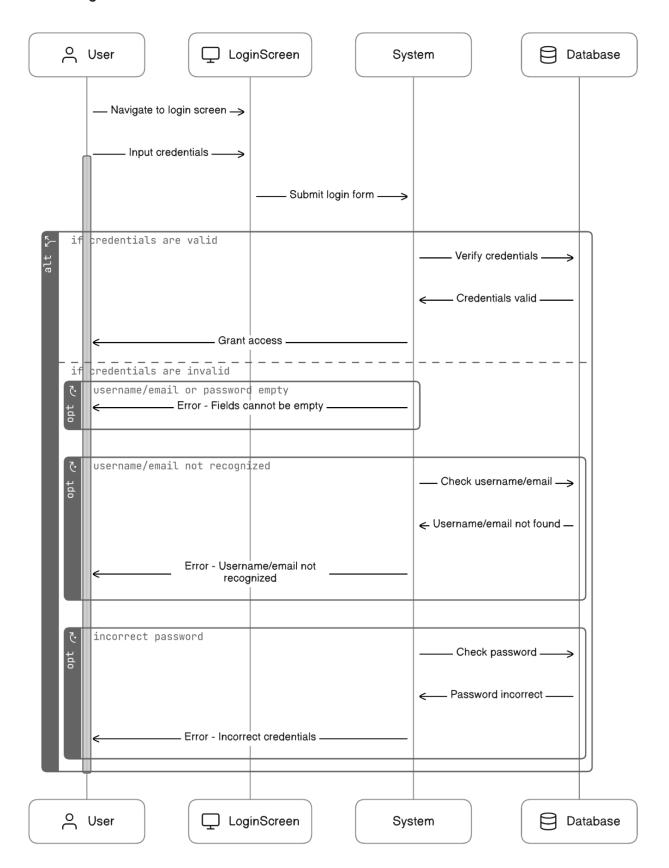
# Book -ISBN: string -rating: int -price: float -title: string -pages: int -author: string +Book() +Book(string ISBN, int rating, float price, string title, int pages, string author): void +updateRating(string ISBN, int rating): void +updatePrice(string ISBN, float price): void +updatePrice(string ISBN, string title): void +updatePages(string ISBN, string title): void +updatePages(string ISBN, string title): void +updateAuthor(string ISBN, string author): void

## **Function Modeling Diagrams**

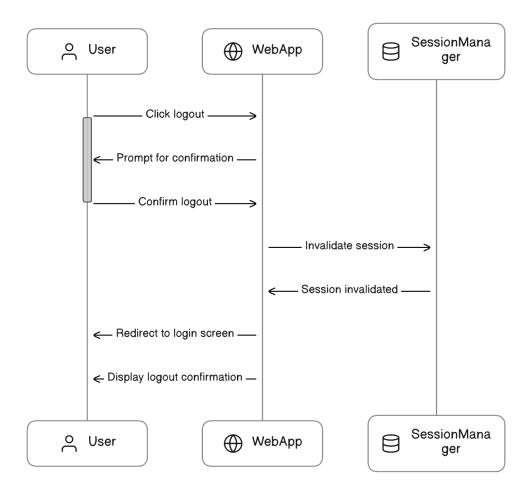
#### **Account Creation Process**



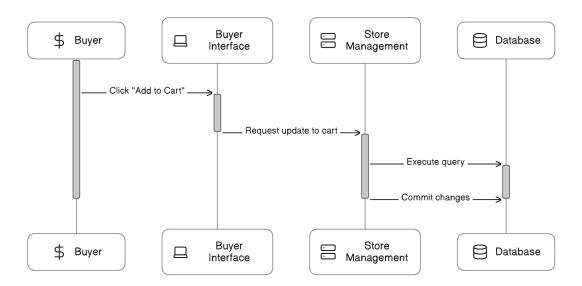
#### **User Login Process**



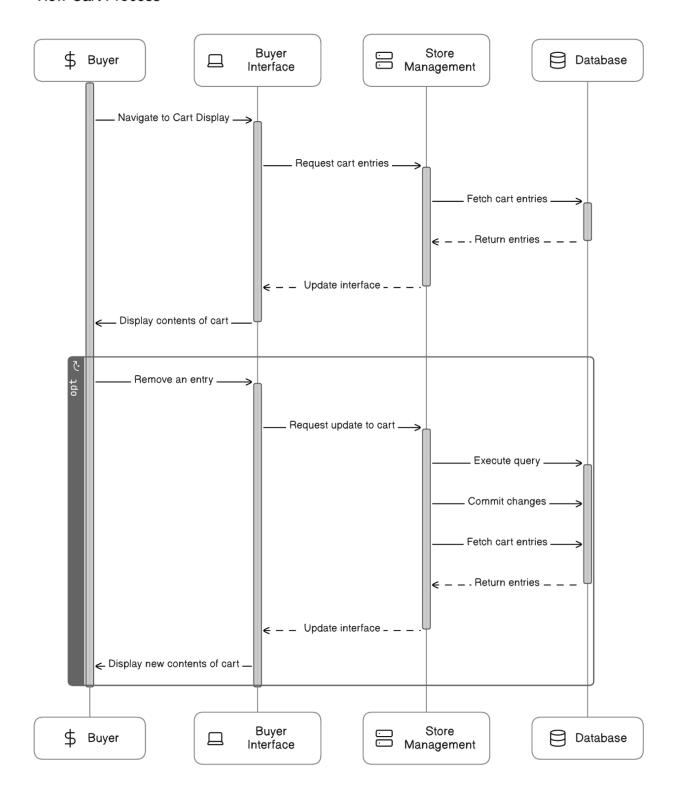
#### **Logout Process**

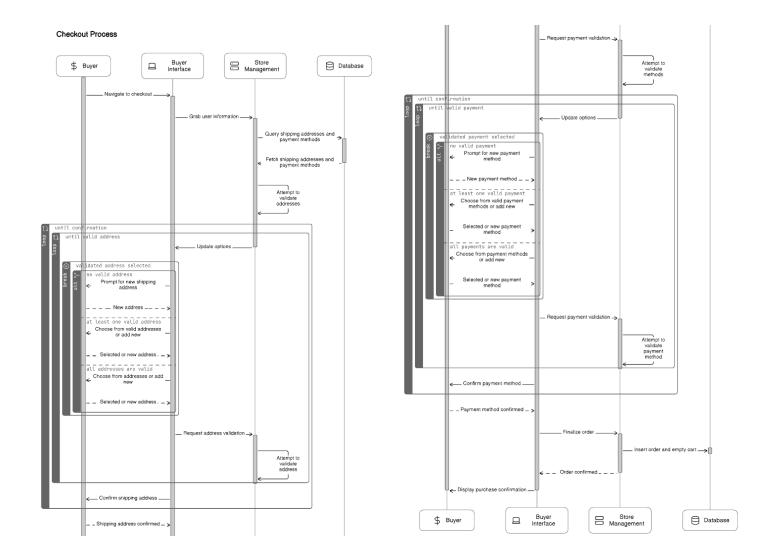


#### Add to Cart Process

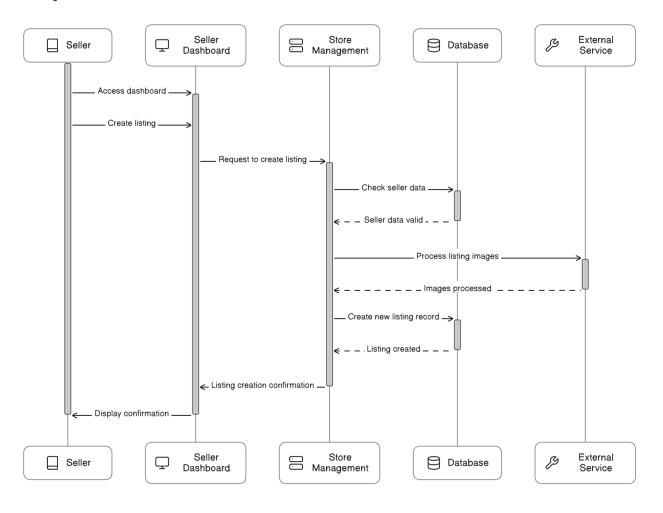


#### **View Cart Process**

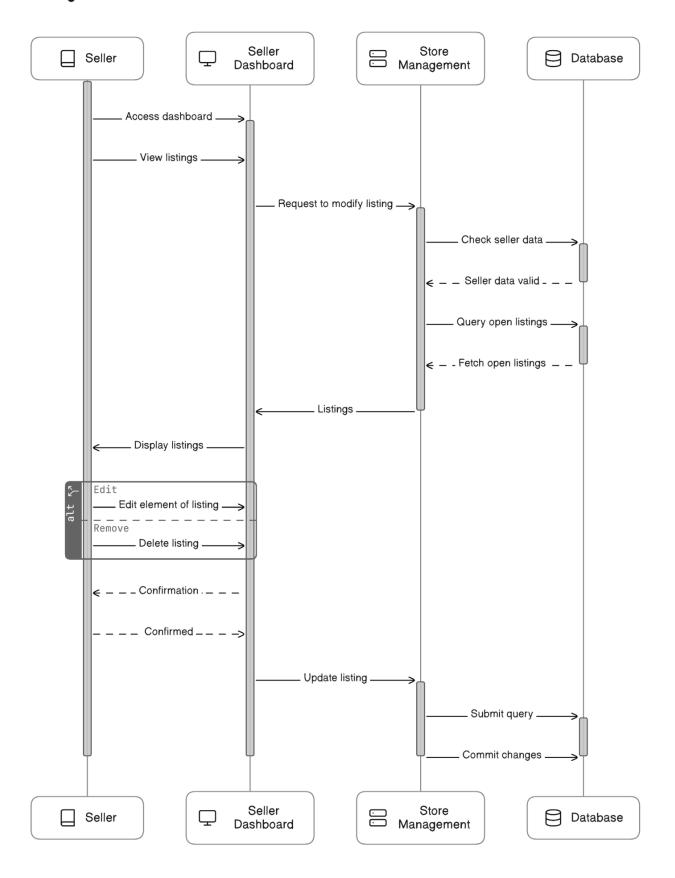




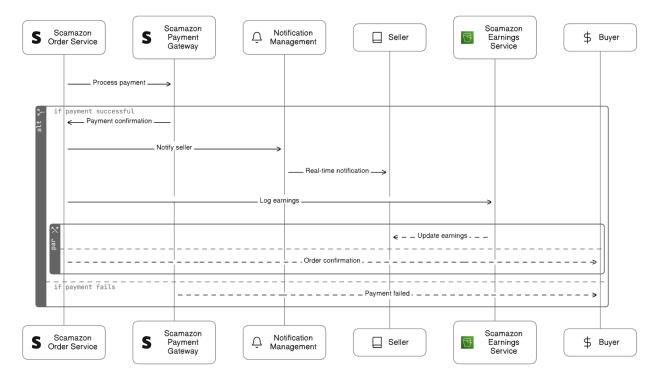
#### **Listing Creation Process**



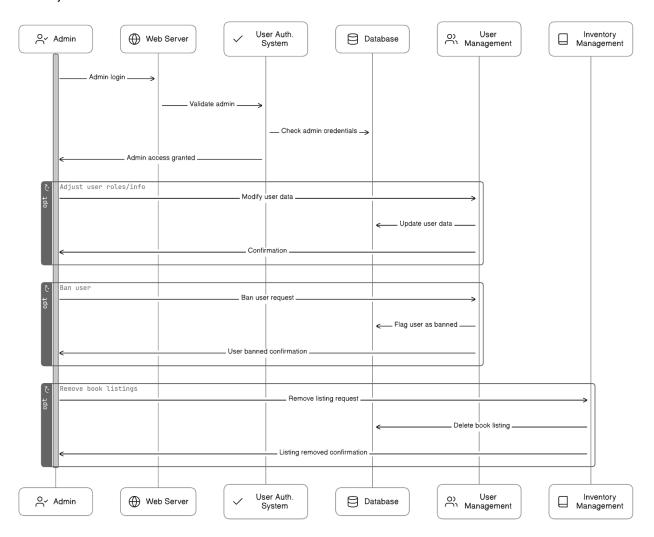
#### **Listing Modification Process**



#### Real Time Order and Payment Process

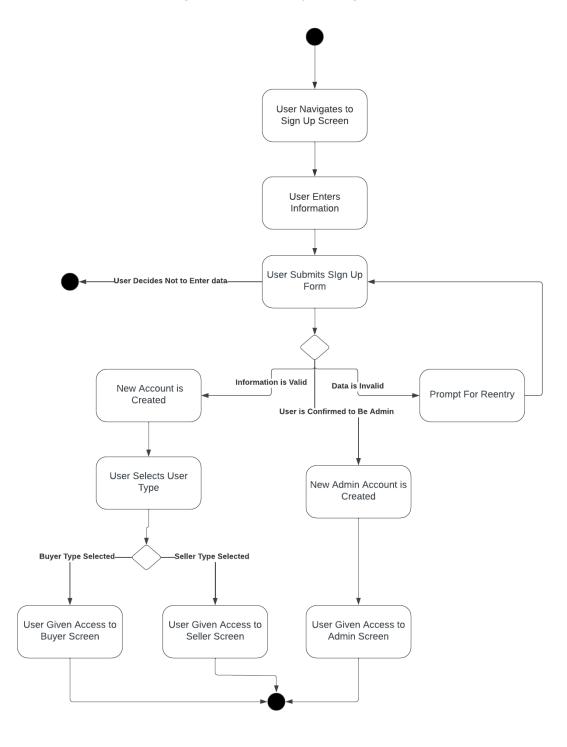


#### Admin System Interactions

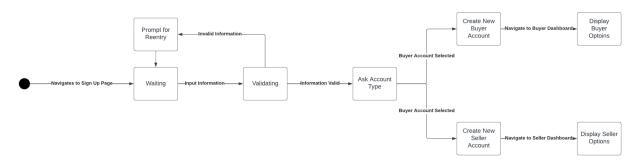


## Behavioral Modeling Diagrams

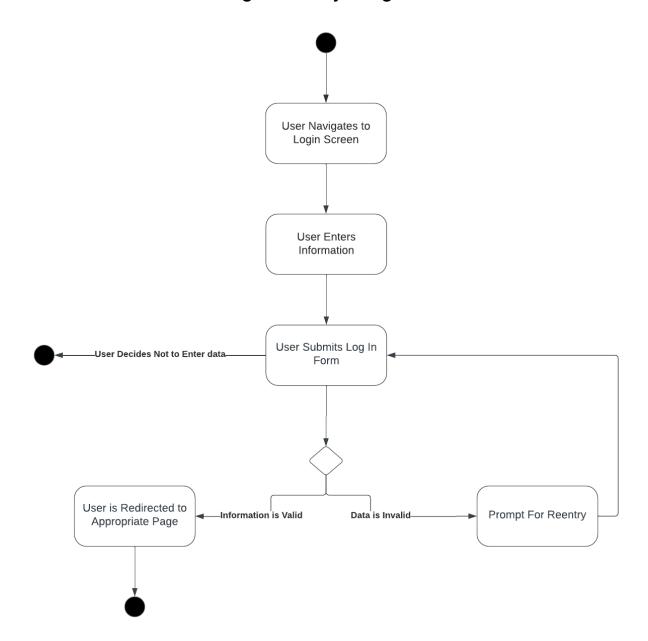
## Sign Up Activity Diagram



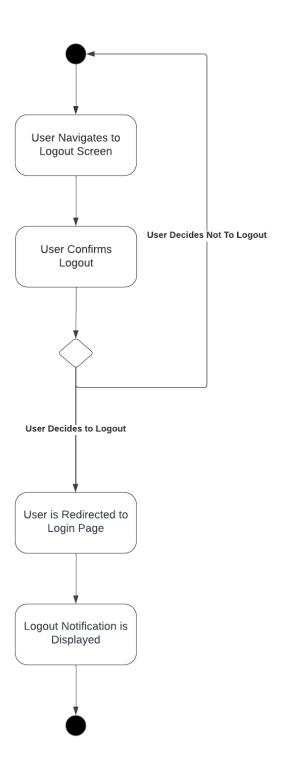
# Sign Up State Diagram



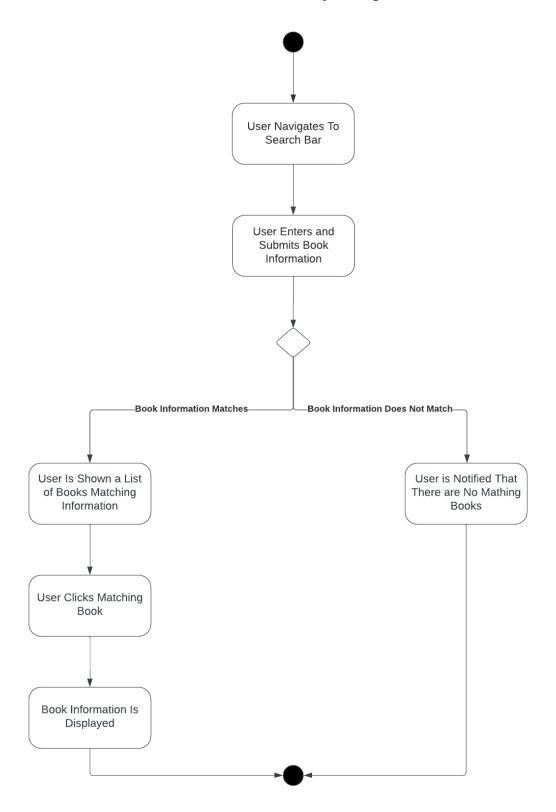
# Login Activity Diagram



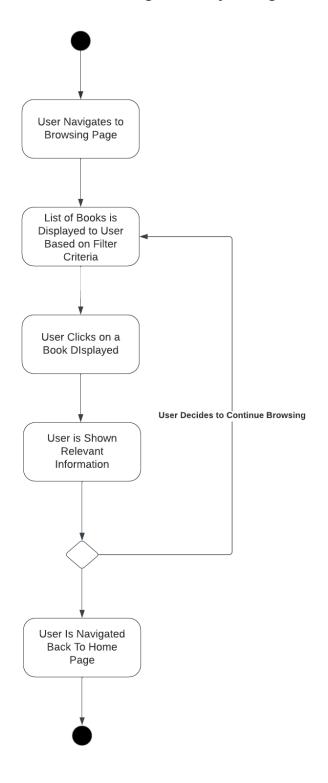
# Logout Activity Diagram



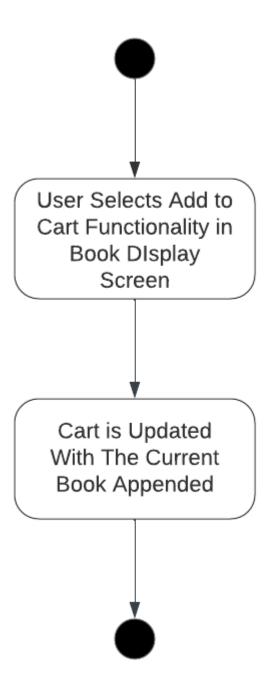
## **Book Search Activity Diagram**



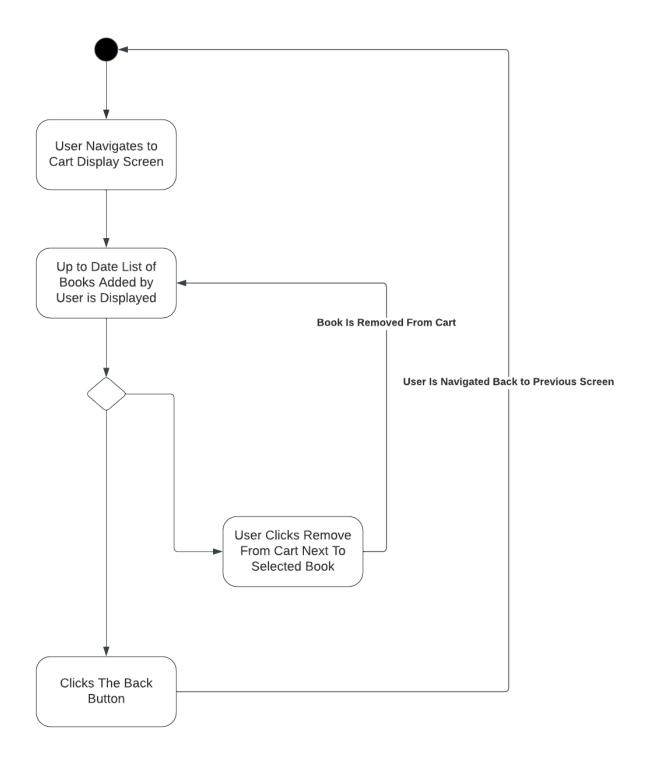
## **Book Browsing Activity Diagram**



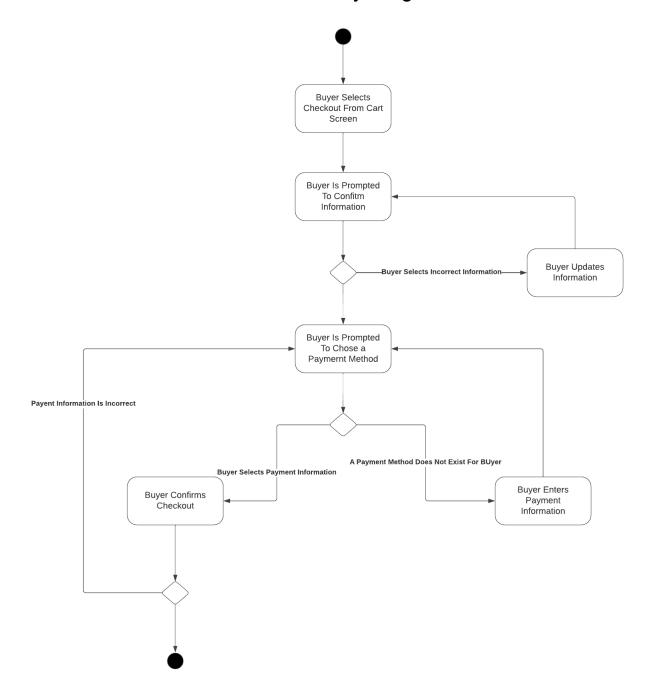
#### Adding A Book To Cart Activity Diagram



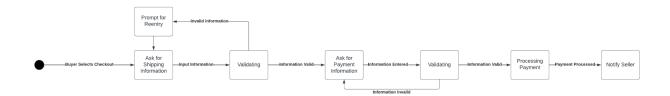
## Cart Updating Activity Diagram



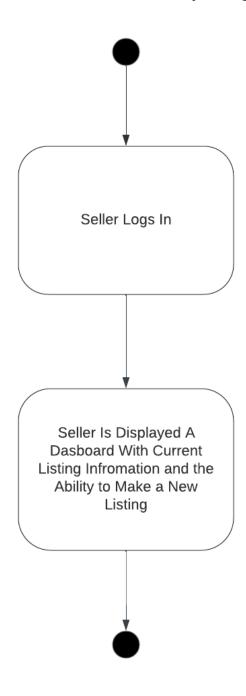
# **Checkout Activity Diagram**



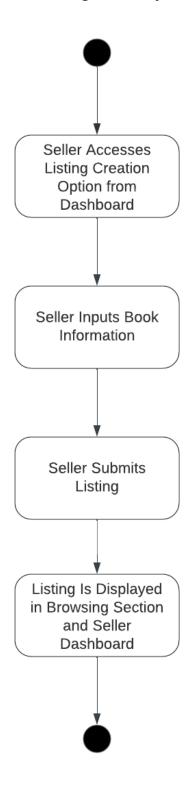
# Checkout State Diagram



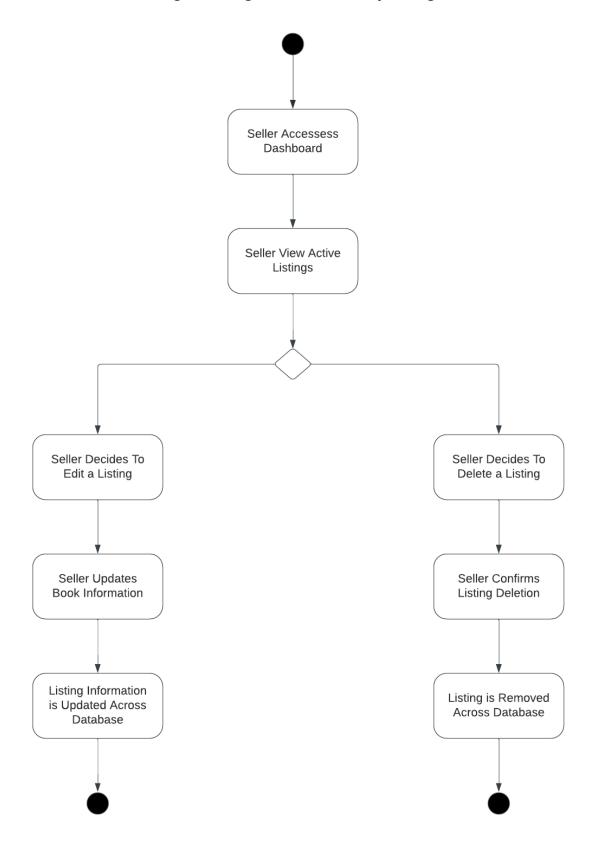
## Seller Dashboard Activity Diagram



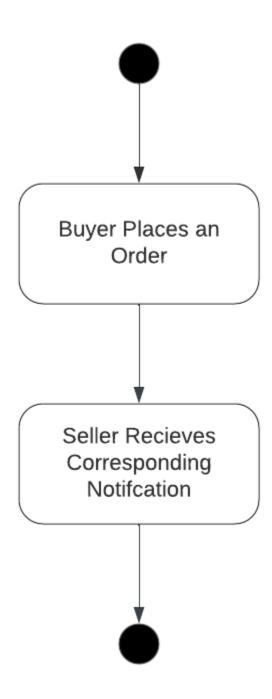
## Create a Listing Activity Diagram



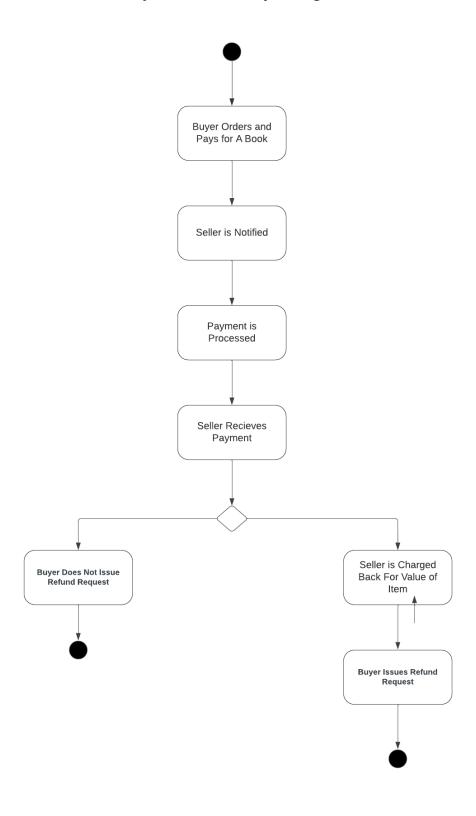
## Listing Management Activity Diagram



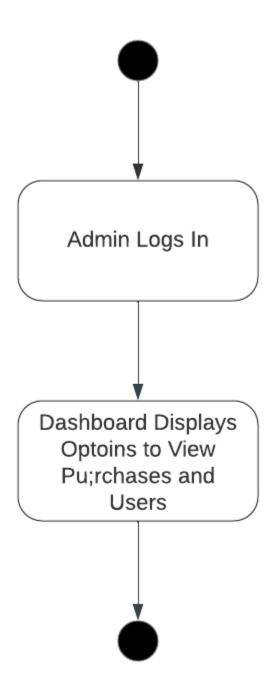
# Listing Notification Activity Diagram



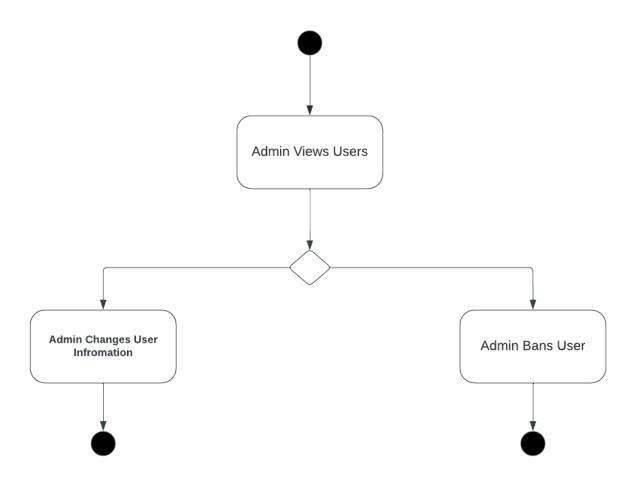
# Payment Activity Diagram



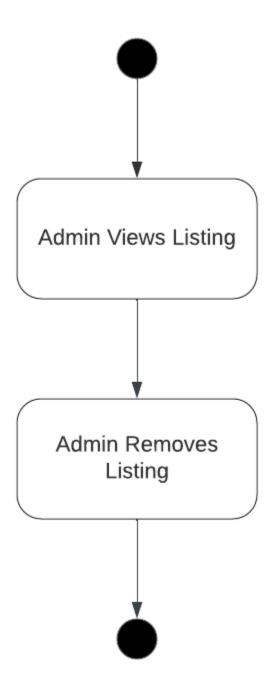
## Admin Dashboard Activity Diagram



# Admin Ban Users Activity Diagram

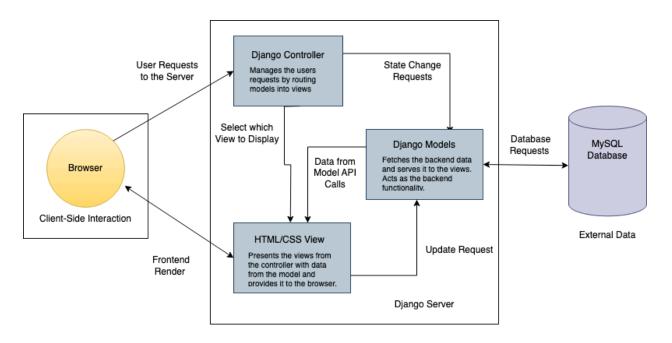


# Admin Remove Listing Activity Diagram



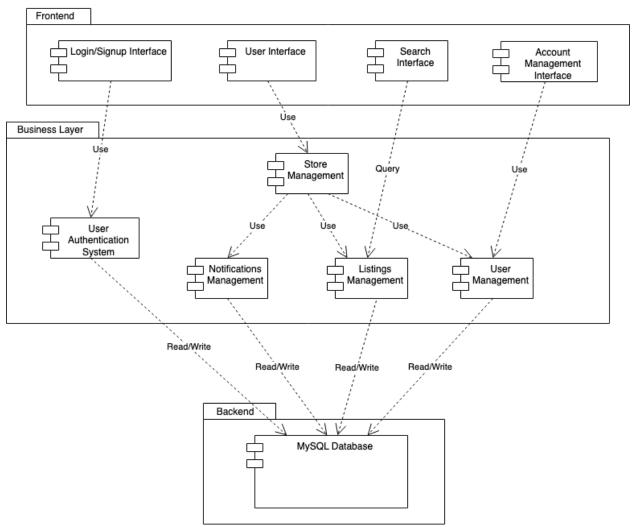
#### Architectural Design Diagram

#### Model View Controller Architecture Diagram



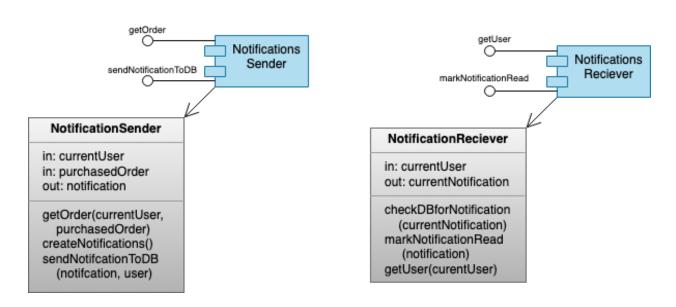
## Component Level Diagrams

Top Level Components Diagram

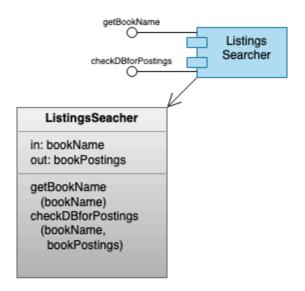


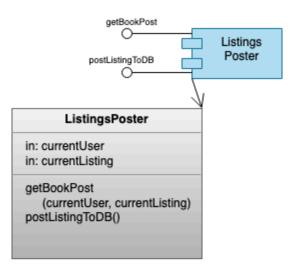
#### **Expanded Component Diagrams** Management Notifications Listings User Management Management Management Notifications Notifications Shopping Listings Listings Admin Purchaser Sender Reciever Searcher Poster Manager Checkout

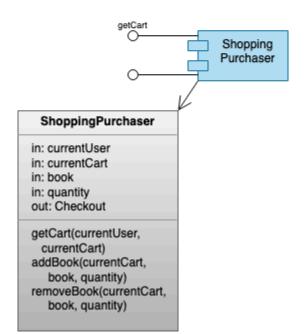
#### Notifications Management Components

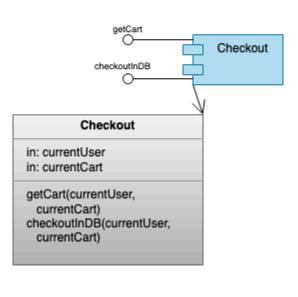


#### **Listings Management Components**









#### Users Management Components

