

# **E-bidding System**

## **Project Report 2**

**Team L:**

**Ali Abdelsater**

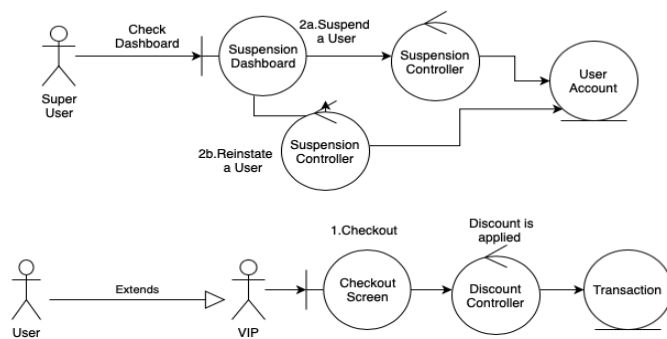
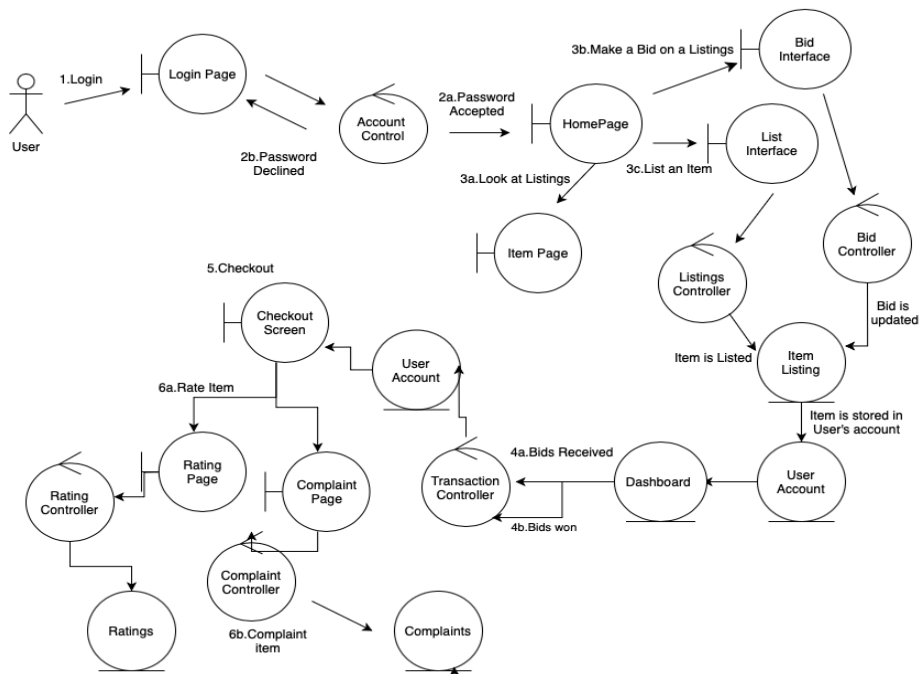
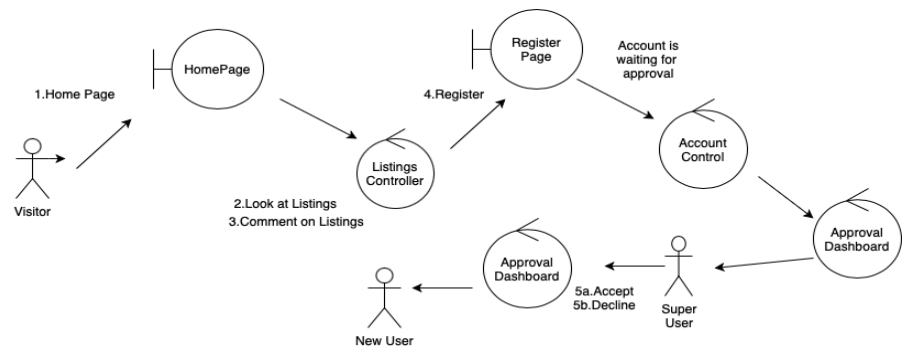
**Ramon Moises**

**Aboubacar S Diakite**

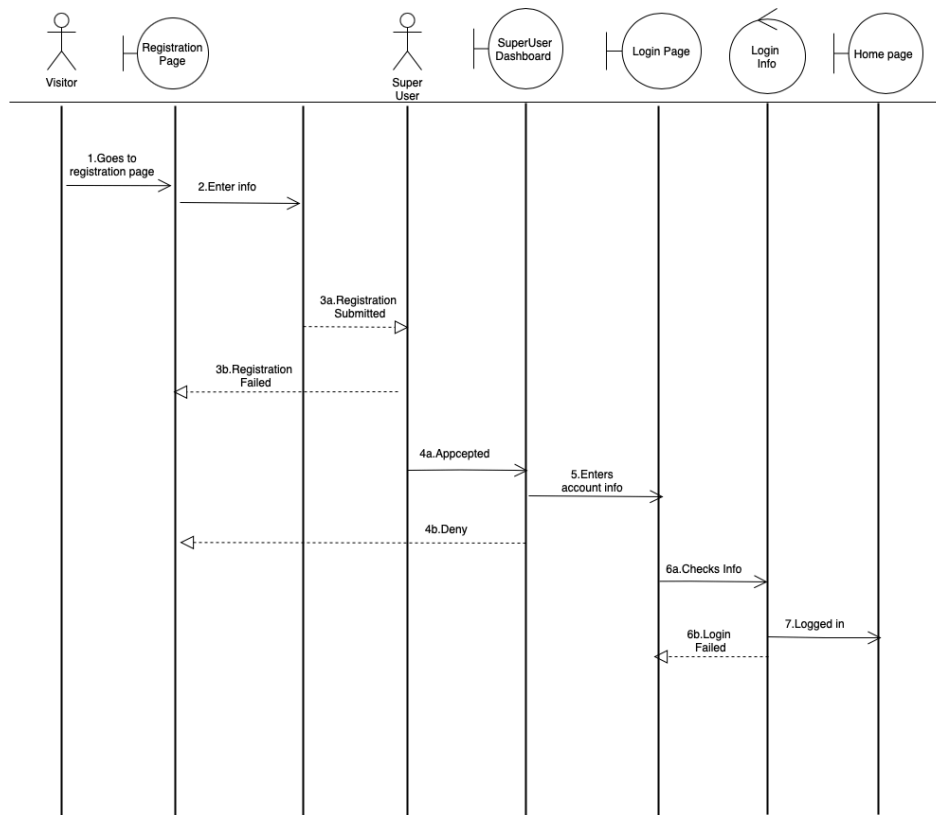
**Alexandr Voronovich**

**Edison Florian**

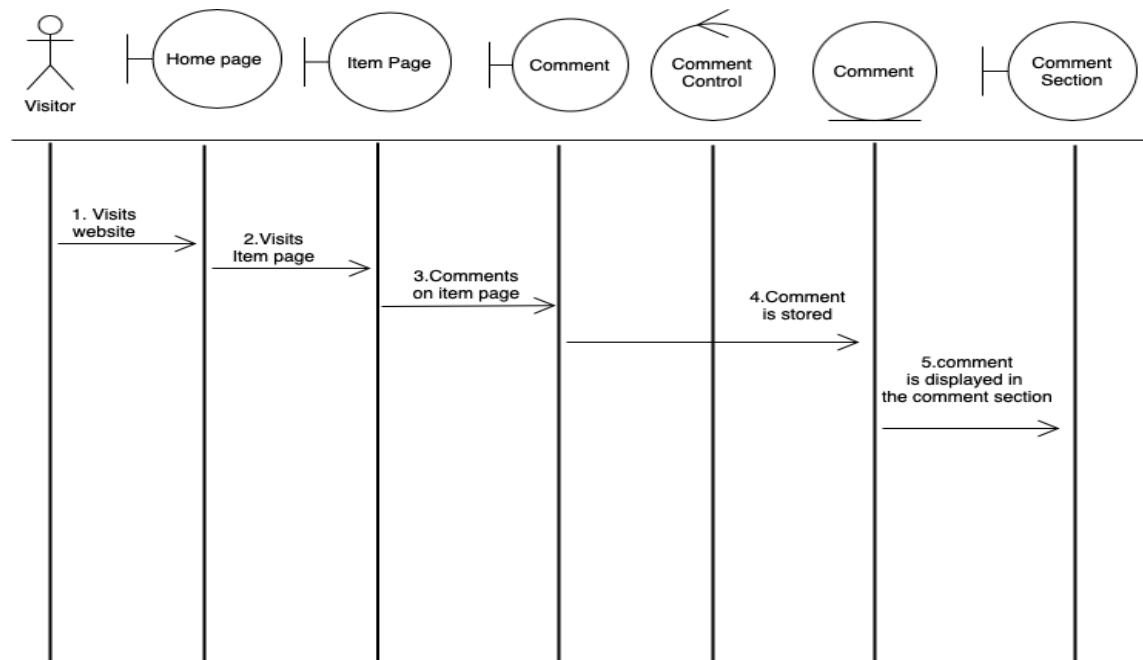
1) Collaborative Diagram:



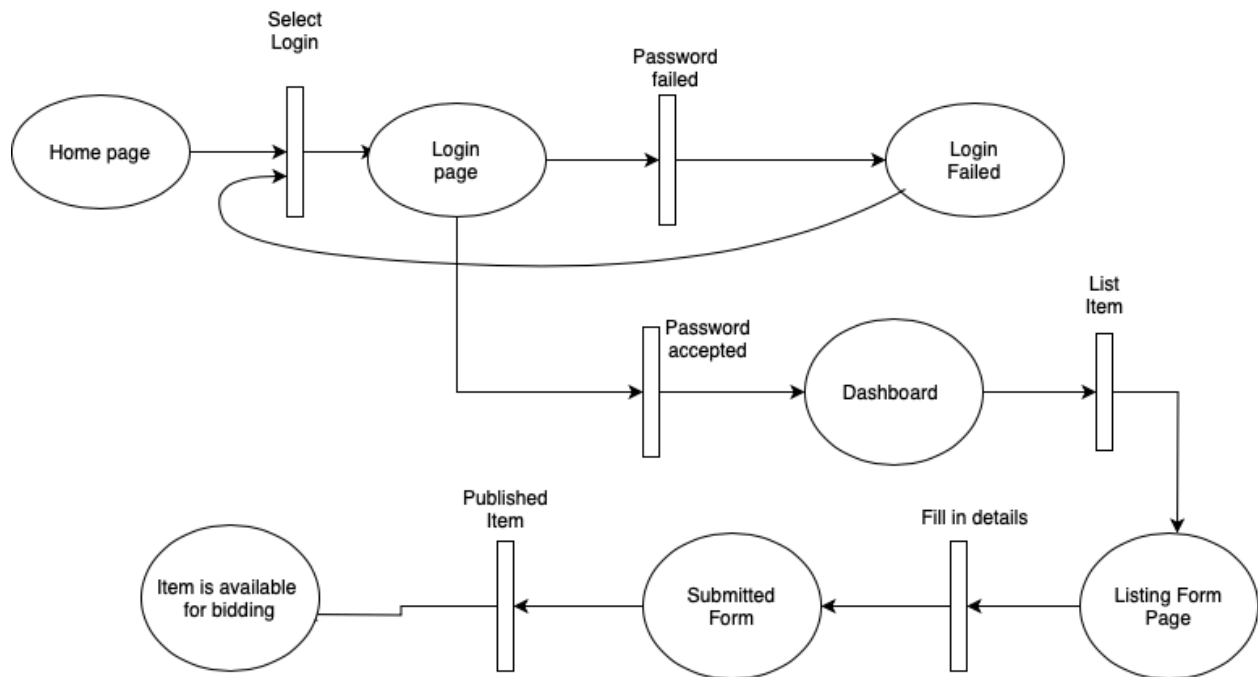
## 2) Use Case 1



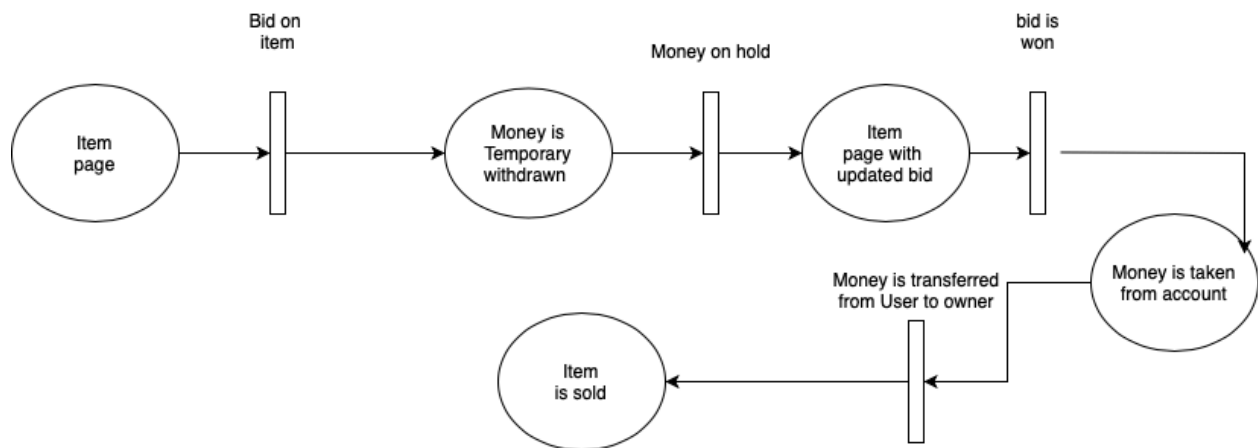
## Use Case 2.



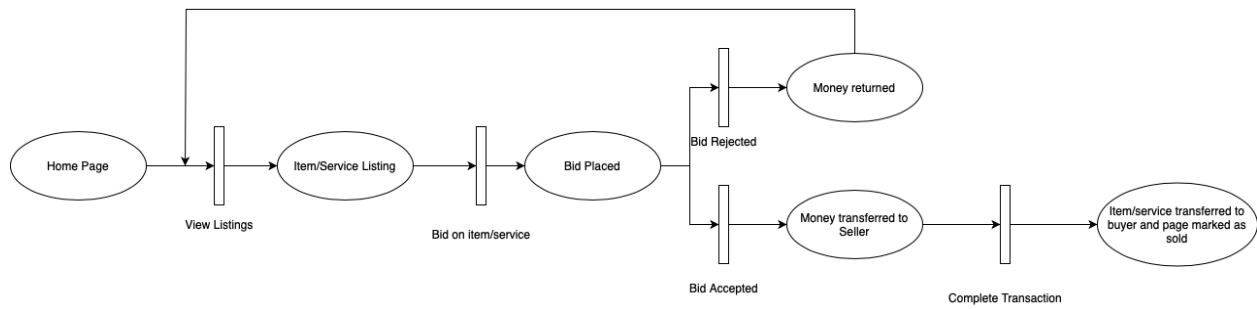
### Petri Net Use Case 3:



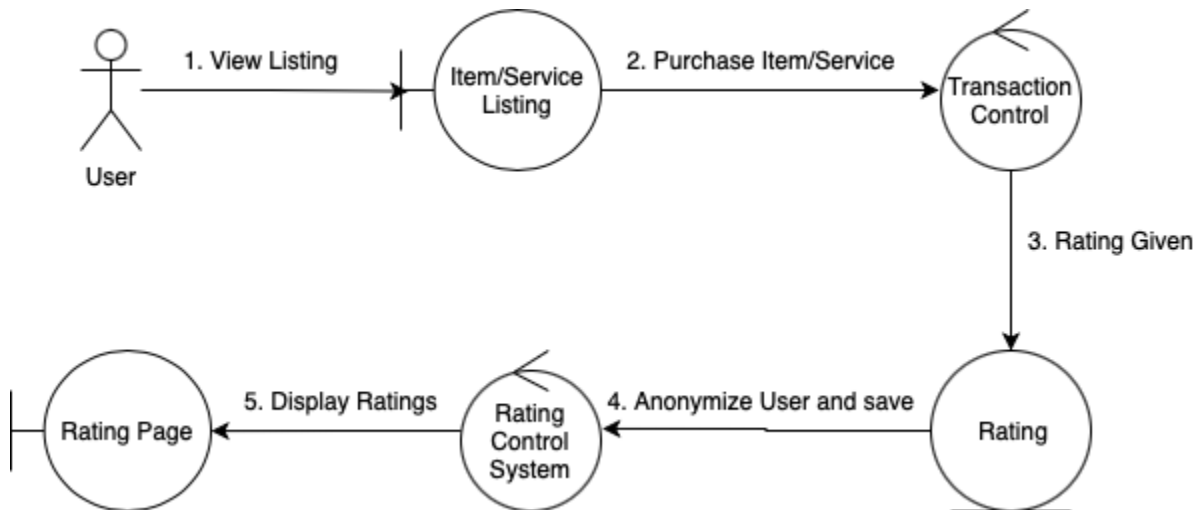
### Petri Net Use Case 4:



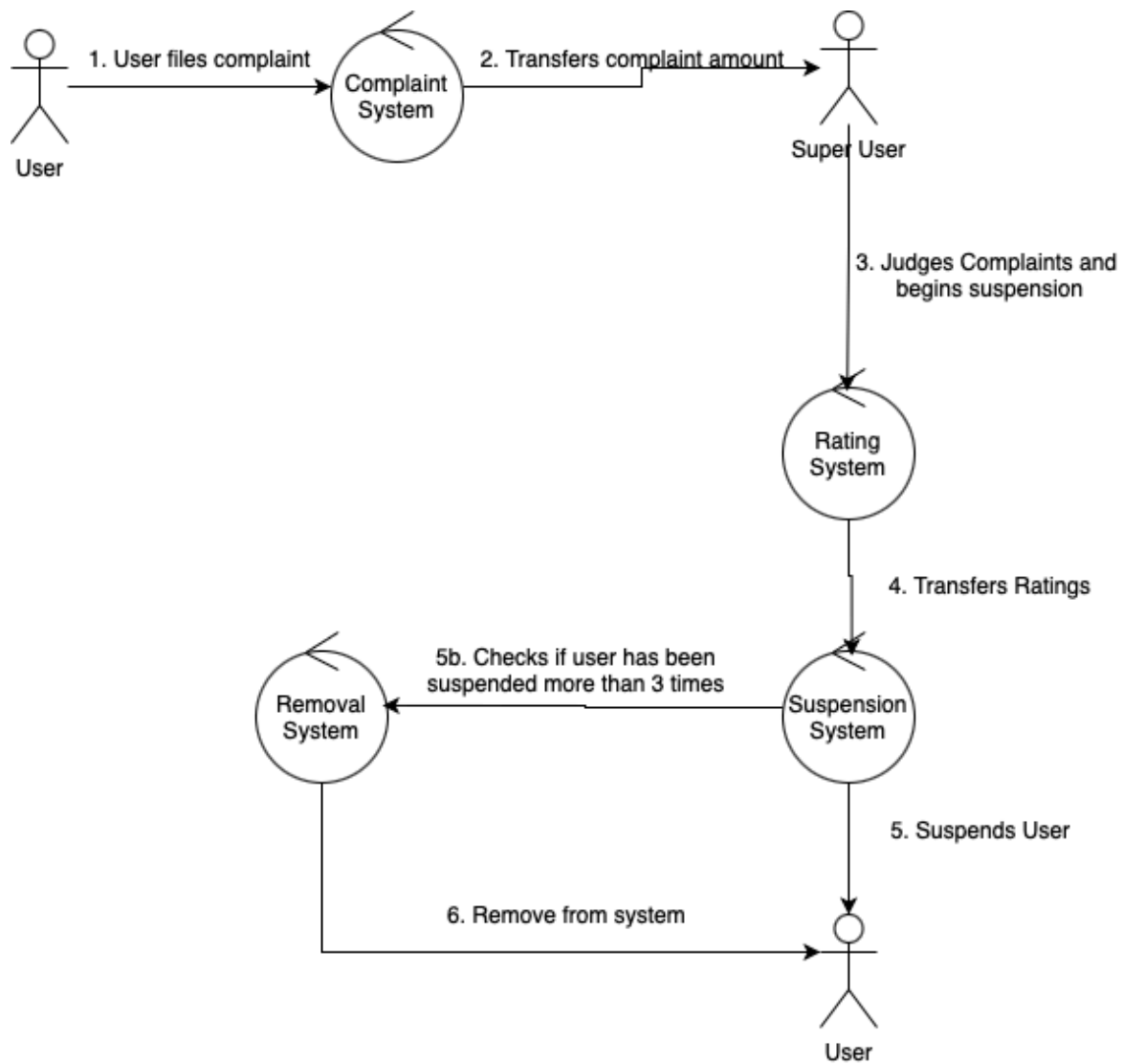
### Petri Net Case 5.



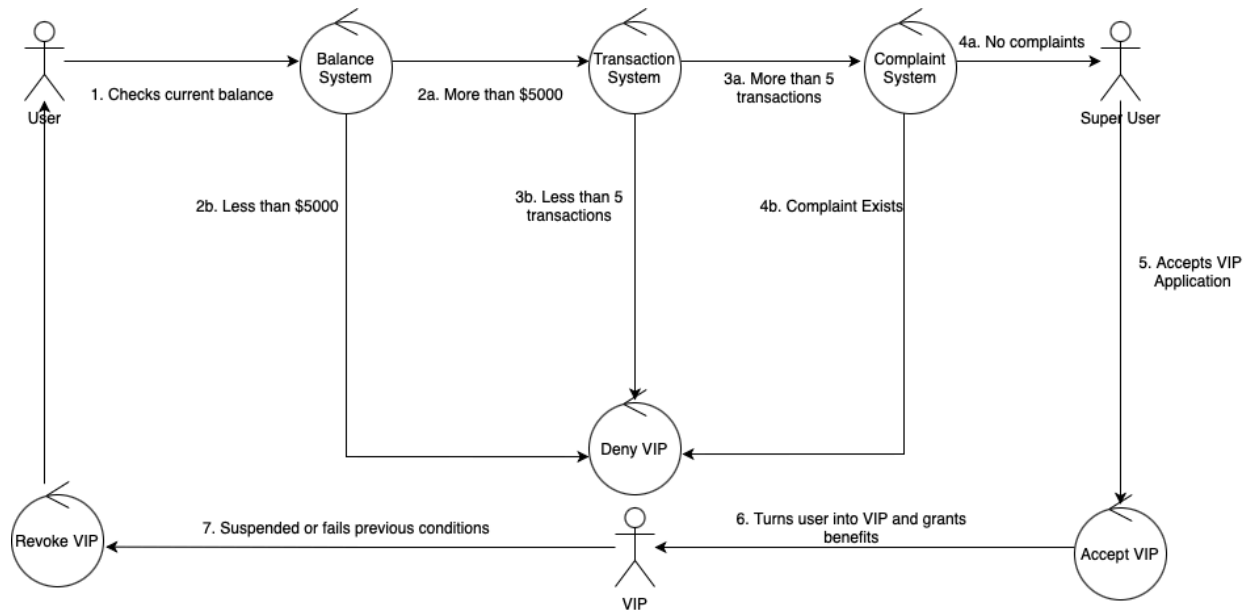
### Use Case 6:



Use case 7.

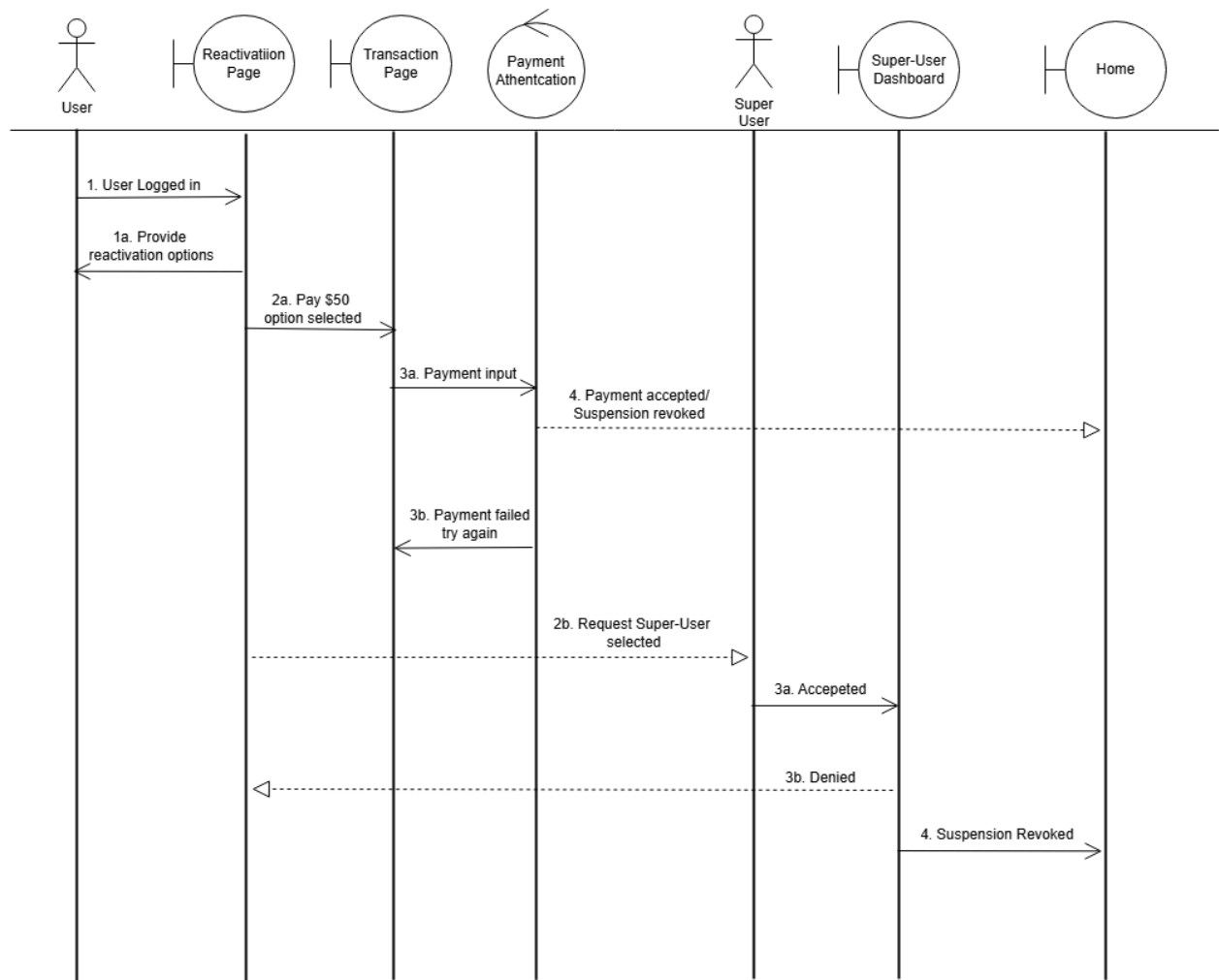


## Use Case 8:

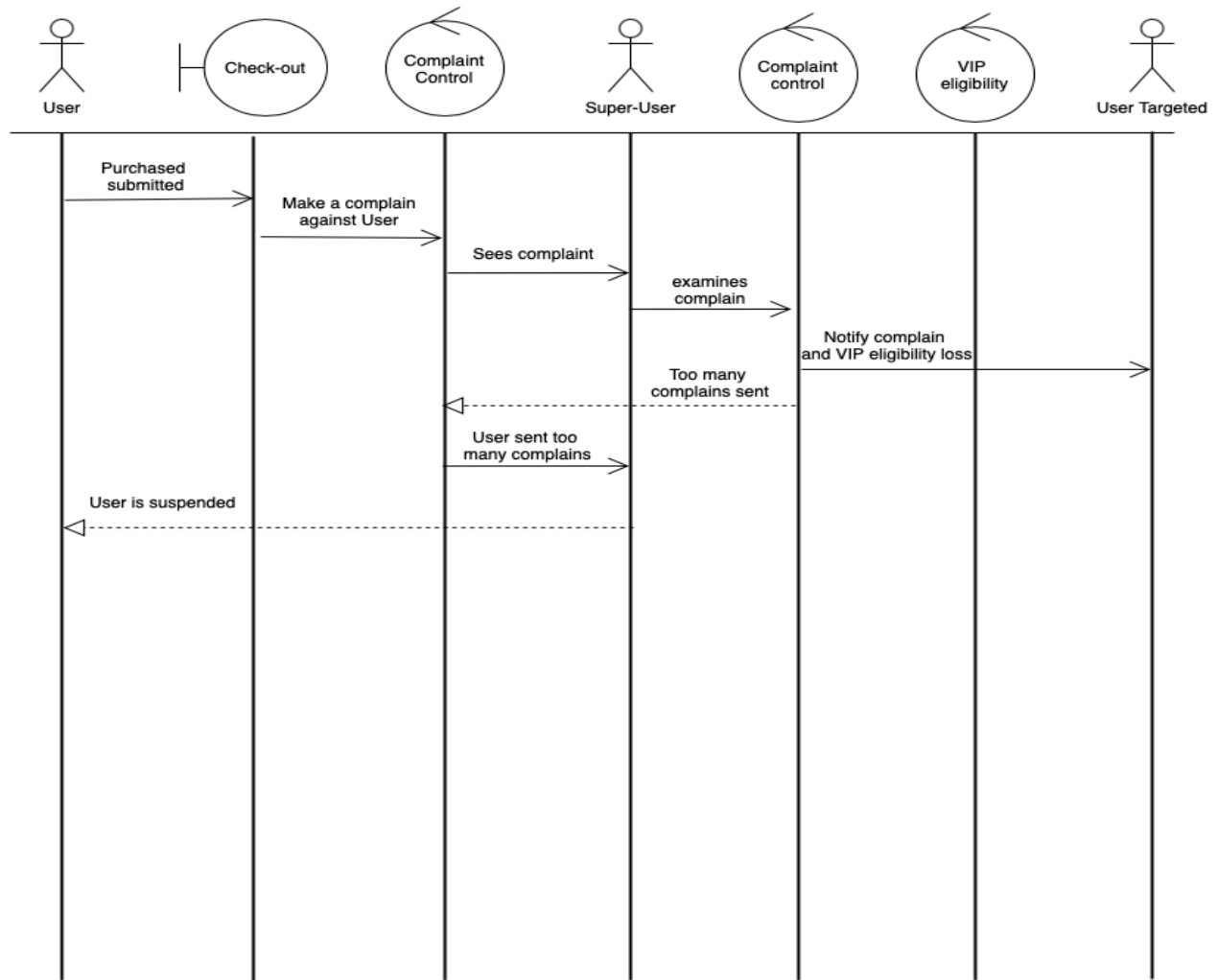




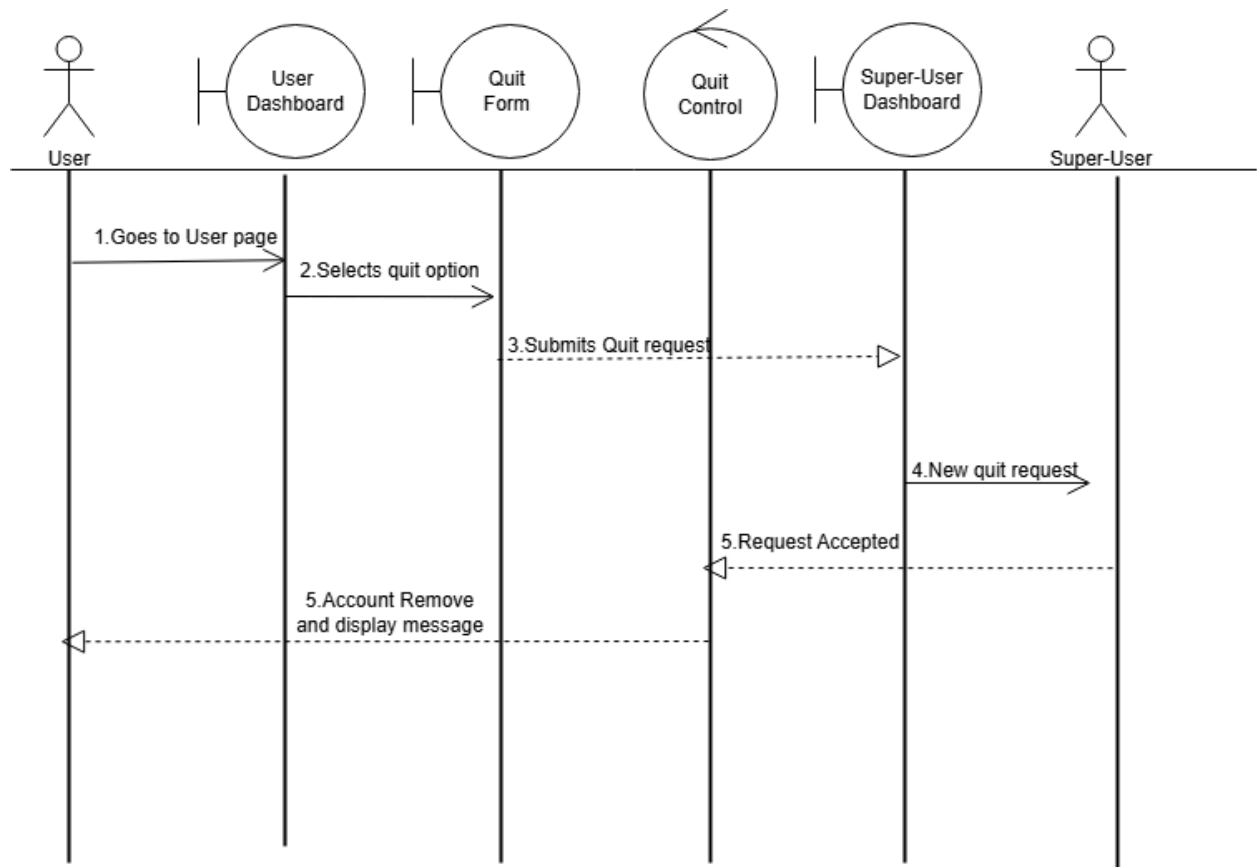
## Use case 9.



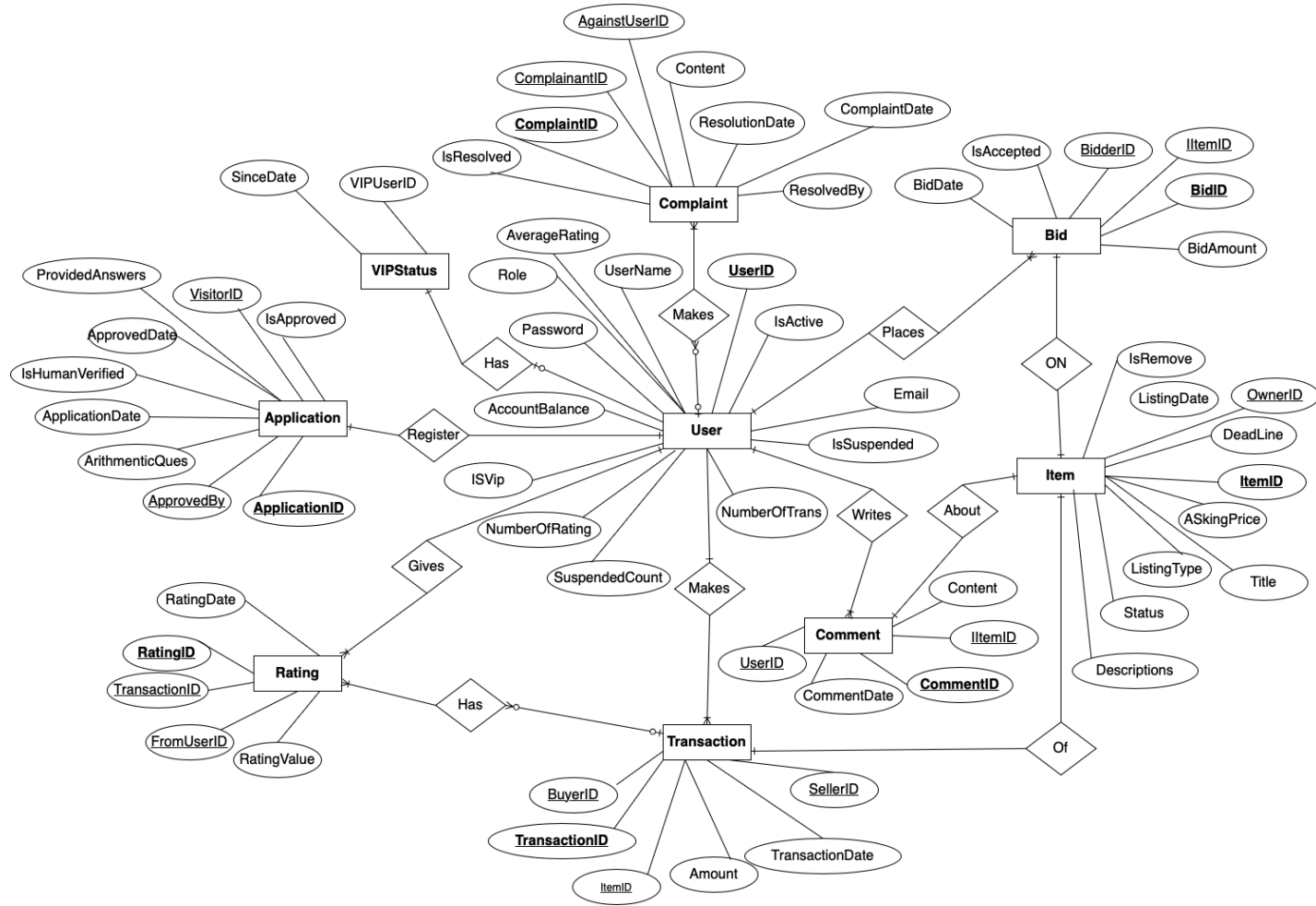
Use case 10:



Use case 11.



### 3) E\_Bidding System ER Diagram



### 4. Use Cases Pseudo Code

#### Case 1

```

function registerVisitor(visitorDetails, answer)
{
    show RegistrationPage
    if (visitorDetails are complete and answer is correct)
    {
        submit Application
        notify SuperUser
    }
    else
    {
        show Error("Incomplete details or incorrect answer")
    }
}
    
```

```

}

function processApplication(applicationId)
{
    application = fetchApplication(applicationId)
    if (superUser approves application)
    {
        create UserAccount(application.visitorDetails)
        notify Visitor("Application approved")
    }
    else
        notify Visitor("Application denied")
}

```

Case 2.

```

function browseListing()
{
    listings = getAllListings()
    display(listings)
}

function viewItempage(listingID)
{
    listing = getListing details (listingID)
    display(listing.details)
    comments = fetchComments(listingID) // Fetch comments for the listing
    display comments // Show comments related to the listing
}

function commentOnListing(listingIdID, commentText)
{
    saveComment(listingId,anonymous commentText)
    show Success("Comment added")
}

```

Case 3.

```

function createListing(userId, listingDetails)
{
    user =getUser(userId)
    if (user is authorized and listingDetails are complete)

```

```

    {
        saveListing(listingDetails, userId)
        show Success("Listing created")
    }
    else
    {
        show Error("Listing creation failed")
    }
}
function submitListing(listingId)
{
    listing = getListing(listingId)
    publishListing(listing)
    show Success("Listing published")
}

```

Case4.

```

function placeBid(userId, listingId, bidAmount)
{
    user = getUser(userId)
    listing = fetchListing(listingId)

    if user.balance >= bidAmount
    {
        holdFunds(user, bidAmount)
        addBid(listingId, userId, bidAmount)
        show Success("Bid placed")
    }
    else
    {
        show Error("Insufficient funds")
    }
}

```

```

function acceptBid(listingId, bidId)
{
    highestBid = getHighestBid(listingId)
    if (highestBid == bidId)
    {
        processTransaction(highestBid.userId, listing.ownerId, highestBid.amount)
        transferOwnership(listingId, highestBid.userId)
        show Success("Bid accepted and transaction completed")
    }
    else

```

```

    {
        show Error("Bid acceptance failed")
    }
}

```

Case5:

```

function completeTransaction(listingId, bidId)
{
    listing = getListing(listingId)
    previousBid = getBid(bidId)
    highestBid = 0
    if (highestBid > previousBid)
    {
        highestBid remains the same
        rejectBid(previousBid)
    }
    if (highestBid < previousBid)
    {
        rejectBid(highestBid)
        highestBid = previousBid
    }
    if (user accepts highestBid)
    {
        completeTransaction(listingId, highestBid)
    }
    if (user declines highestBid)
    {
        rejectBid(highestBid)
    }
}

```

Case6:

```

function rateTransaction(transactionId, buyerRating, sellerRating, buyerid, sellerid)
{
    transaction = getTransaction(transactionId)

    if (transaction is completed)
    {
        rateBuyer(buyerRating, sellerid)
        rateSeller(sellerRating, buyerid)
        say "Rating submitted"
    }
    else
    {

```

```

        say ("Error, ratings could not be saved")
        backToListing(listingId)
    }

    makeRatingsAnonymous(userId, buyerRating, sellerRating)
    hideRaterDetails(userId, buyerRating, sellerRating)
}

Case7:
function checkSuspensionStatus(userId)
{
    user = getUser(userId)
    ratings = getRatings(userId)
    complaints = getComplaints(userId)

    if (a user has 3 or more ratings below 2, average rating less than 2, or greater than 4)
    {
        notifySuperUser(userId)
    }
}

function notifySuperUser(userId)
{
    suspendUser(userId)//Also tells the superUser to watch out for this account in the future
}

function suspendUser(userId)
{
    user = fetchUser(userId)
    if (they have more than 3 suspensions)
        deleteUserAccount(userId)
        say ("This account has been deleted due to excessive suspensions")
    else
        increaseSuspensionCount(userId)
        deactivateUser(userId)
}

```

```

Case8:
function checkVIPStatus(userId)
{
    user = getUser(userId)
    if (user.balance > 5000 and user.transactionCount > 5 and user.complaints == 0)
    {

```



```

    upgradeToVIP(userId)
    say ("Congratulations, you are now a VIP! You will get a 10% discount as a bonus")
}
else
{
    say ("You do not meet the requirements to become a VIP at this time")
}
if (user.status == VIP and (user.balance < 5000 or user.complaints > 0))
{
    downgradeFromVIP(userId)
    say "You are no longer a VIP"
}
if (user.status == VIP and userIsSuspended)
{
    downgradeFromVIP(userId)
    say ("You've been suspended. Since you were a VIP, you have been set back to normal
User status")
}
}

```

Case 9.

```

function requestReactivation(userId)
{
    user = GetUser(userId)
    if (user.status == is suspended)
    {
        show ReactivationOptions("Pay $50 fine or request Super-user review")
    }
}

```

```

function payFine(userId)
{
    user = GetUser(userId)
    if (user pays $50)
    {
        deductFunds(userId, 50)
        activateAccount(userId)
        say Success("Account reactivated after fine")
    }
    else
    {
        show Error("Insufficient funds to pay fine")
    }
}

```

```

    }
}

function superUserReactivation(userId)
{
    user = GetUser(userId)
    if (superUser approves)
    {
        activateAccount(userId)
        show Success("Account reactivated by Super-user")
    }
    return 0
}

```

Case 10.

```

function submitComplaint(userId, complaintDetails)
{
    saveComplaint(userId, complaintDetails)
    show Success("Complaint submitted")
    Notify the SuperUser that a ("New complaint received")
}

function reviewComplaint(superUserId, complaintId)
{
    complaint = fetchComplaint(complaintId)
    if (superUser decides action)
        processComplaint(complaint)
        notifyUser(complaint.targetUser, "Action taken on complaint")
    else
        markComplaintAsReviewed(complaintId)
}

```

Case 11.

```

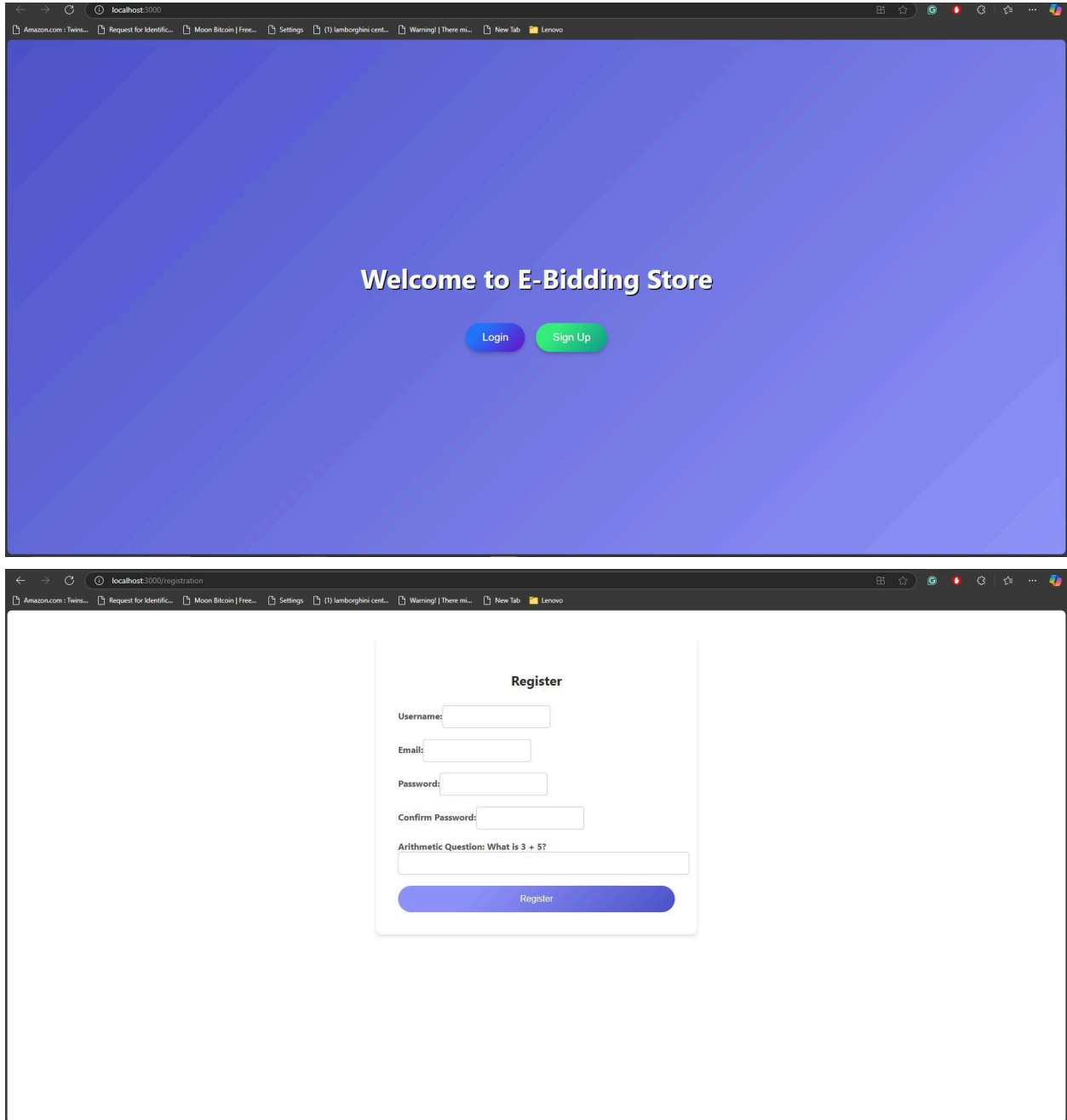
function requestQuit(userId)
{
    user = getUser(userId)
    if (user confirms quit)
        notifySuperUser("User has requested to quit")
        show Success("Quit request submitted")
}

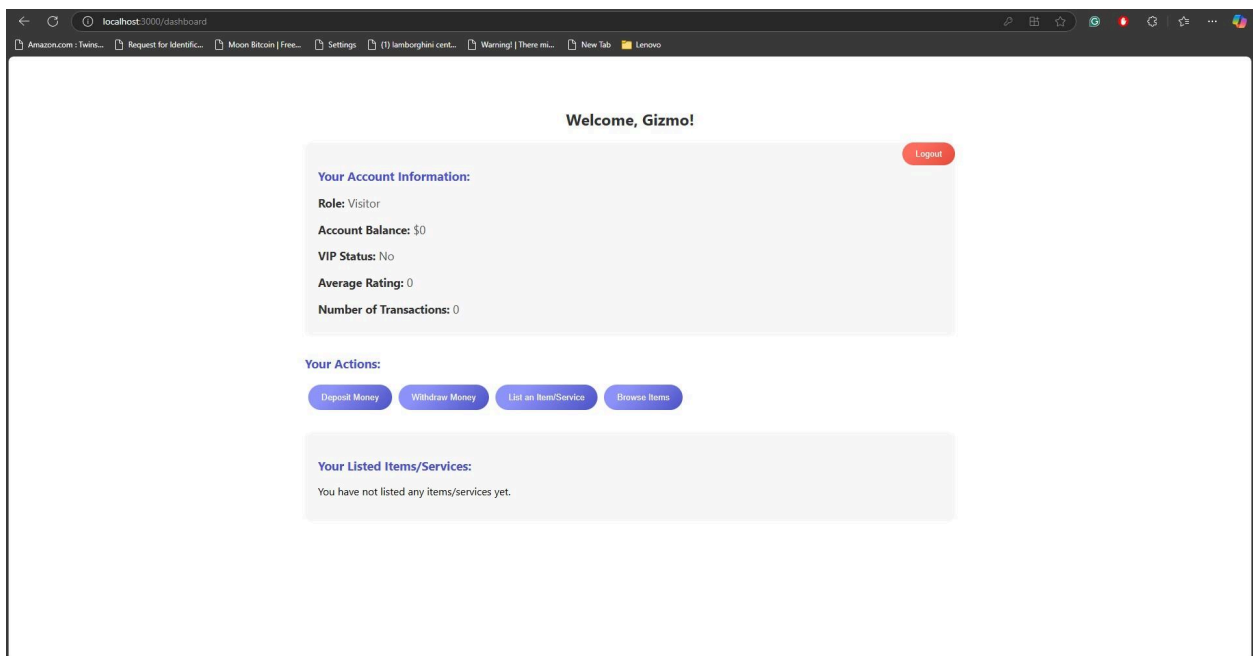
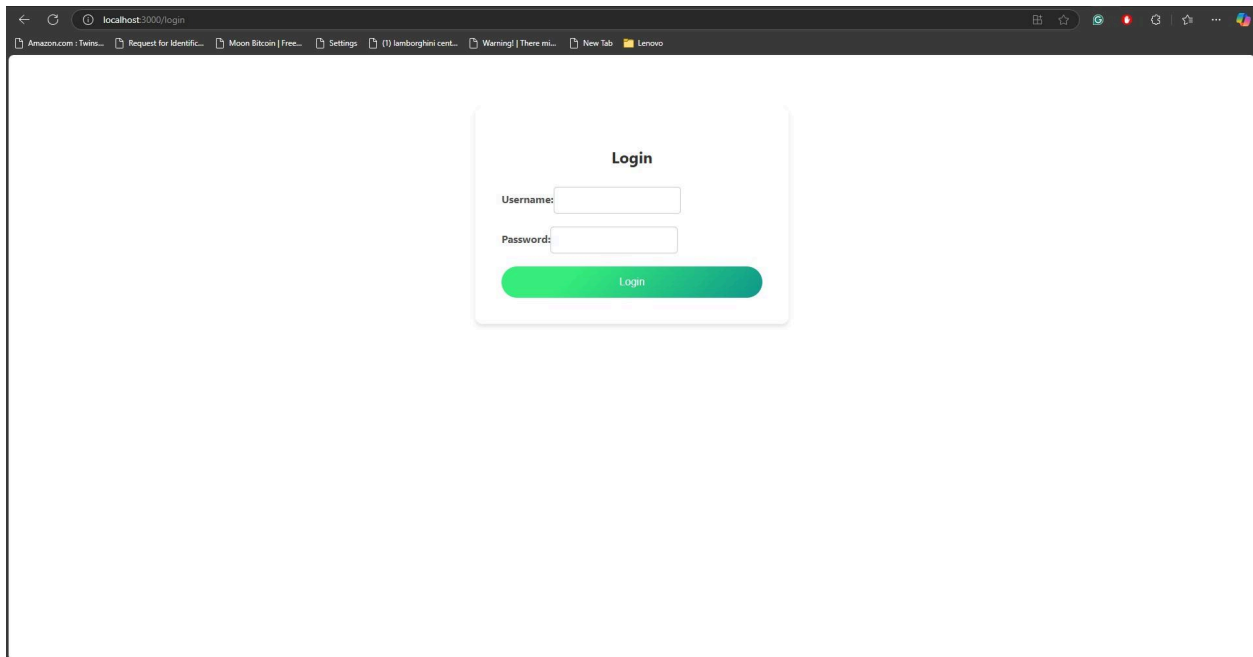
```

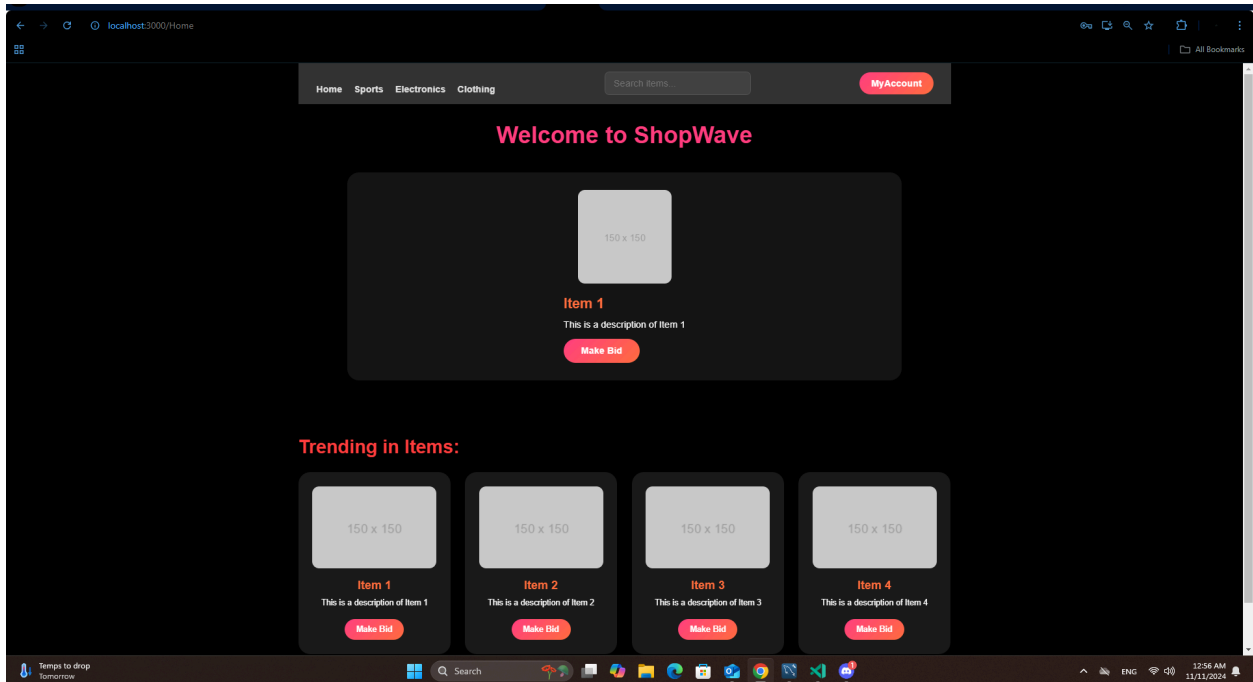
```
    else
        return 0
}

function processQuitRequest(superUserId, userId)
{
    if (superUser approves)
        deleteUserAccount(userId)
        show Success("User account removed from system")
    else
        notifyUser(userId, "Quit request denied by Super-user")
}
```

## 5. Images from System

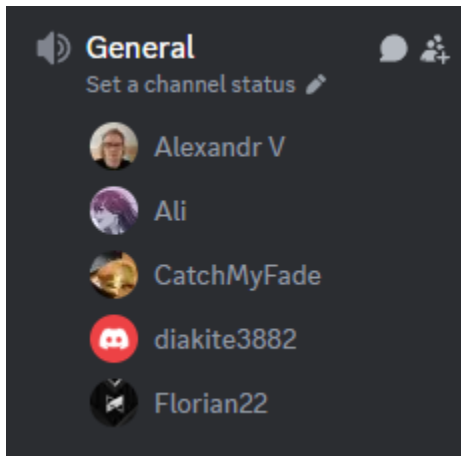


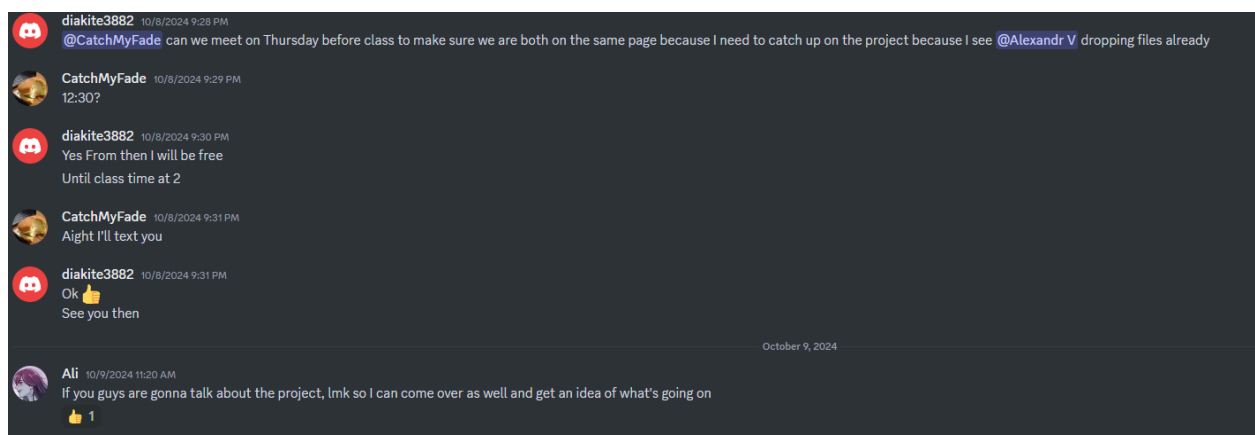






## 6. Group Member



Discord Memo:








 **Ali** 10/12/2024 11:47 AM  
i can be in call, but can't talk for the meeting. my microphone broke a couple days ago :P


 **Alexandr V** 10/12/2024 11:51 AM  
ok


 **diakite3882** 10/12/2024 11:56 AM  
12am or afternoon?  
 1


 **Alexandr V** 10/12/2024 11:56 AM  
now  
today is boxing


 **diakite3882** 10/12/2024 11:57 AM  
Tomorrow 12pm got it


 **Alexandr V** 10/12/2024 11:58 AM  
you can't now?

 **diakite3882** 10/12/2024 11:58 AM  
Ok give me a second, so I can log in. I thought it was tomorrow

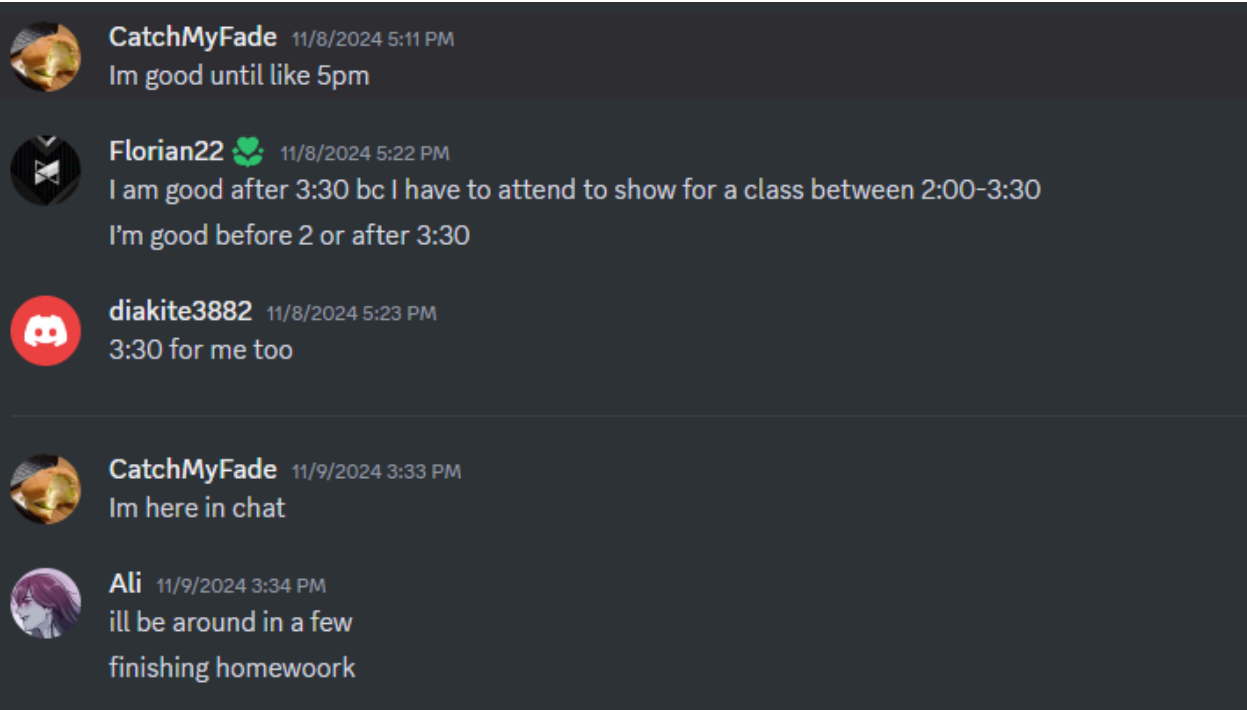
 **CatchMyFade** 10/12/2024 12:00 PM  
Give me 2 mins  
And I'll join

 **Alexandr V** 10/12/2024 12:00 PM  
ok

 **CatchMyFade** 10/12/2024 12:04 PM  
im in

 **Alexandr V** 10/12/2024 12:04 PM  
1 min





7. GITHUB LINK: [https://github.com/gizmo1547/E\\_bidding\\_system](https://github.com/gizmo1547/E_bidding_system)