

---

**Phantom**

---

**Bid-hub  
Design Report  
For Web Application**

**Version <1.1>**

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

## Revision History

Date	Version	Description	Author
01/Nov/22	1.0	First Version of Mini Ebay	Meng Wai Chan Sam Philips Milan Thapa Sean Iori Cometa Umali
24/Nov/22	1.1	Design Report	Meng Wai Chan Sam Philip Milan Thapa Sean Iori Cometa Umali

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

## Table of Contents

1. Introduction	4
1.1 Collaboration Class Diagram	4
2. All Use Cases	5
2.1/ 2.2 Scenarios For Each Case / Class Diagrams for Cases	5
2.1.1 Item Submission system	5
2.1.2 Guest User Browsing and Reporting Suspicious Items	6
2.3 Petri-net Diagram	7
2.3.1 Registering Accounts	7
2.3.2 Bidding System	8
2.3.3 Login System	9
3. Entity-Relationship Diagram	10
4. Detailed Design	11
4.1 AddNewItem	11
4.2 UploadPicture	11
4.3 PlaceBid	12
4.4 ChooseBid	12
4.5 Login	12
4.6 Register	13
4.7 ProcessUserApplication	14
4.8 FileComplaint	14
4.9 SearchItems	15
4.10 UpdateProfileInformation	15
4.11 TransferFunds	16
4.12 SubmitReview	16
4.13 BanUser	17
4.14 ProcessItem	17
4.15 ProcessReport	18
4.16 IssueWarning	18
4.17 ViewStatistics	18
5. System Screens	20
6. Memos of Group Meetings	23
7. Github Repo	23

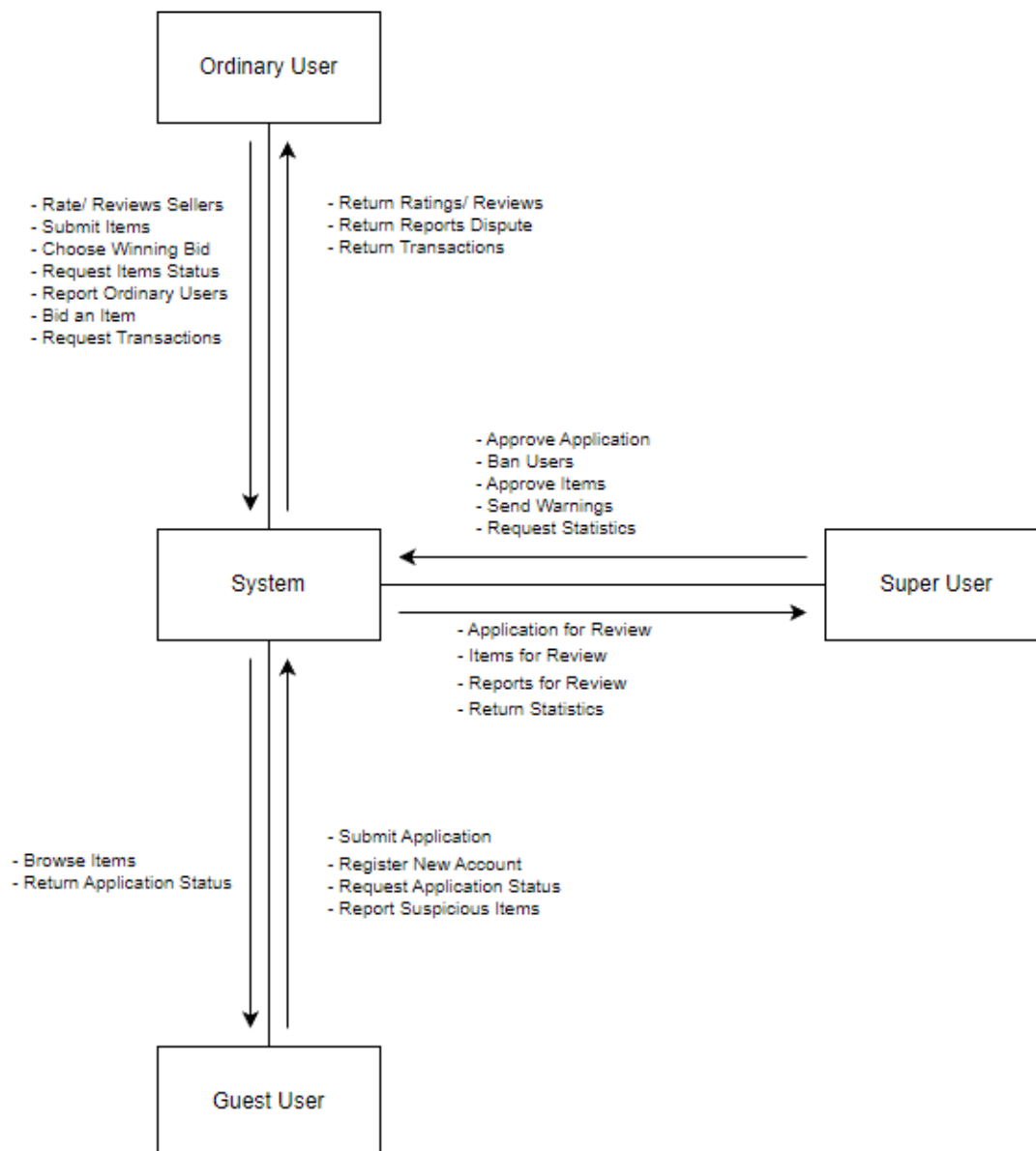
Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

# Design Report

## 1. Introduction

This design report will provide an overview of this program, how it will function and how it looks. The purpose of this report is to provide readers a better understanding of this system.

### 1.1 Collaboration Class Diagram



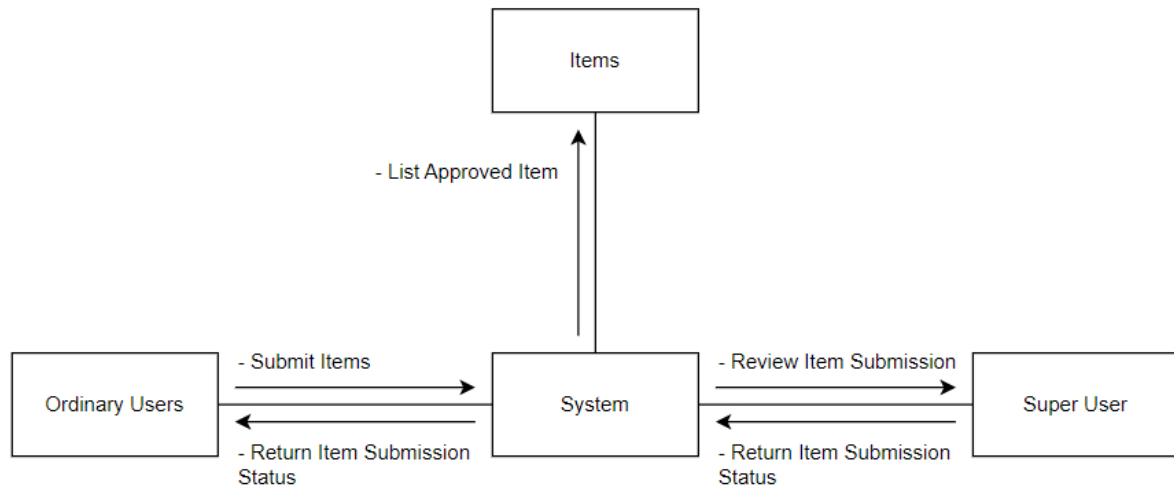
Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

## 2. Overall Description

### 2.1 / 2.2 Scenarios For Each Case / Class Diagrams for Cases

#### 2.1.1 Item Submission system

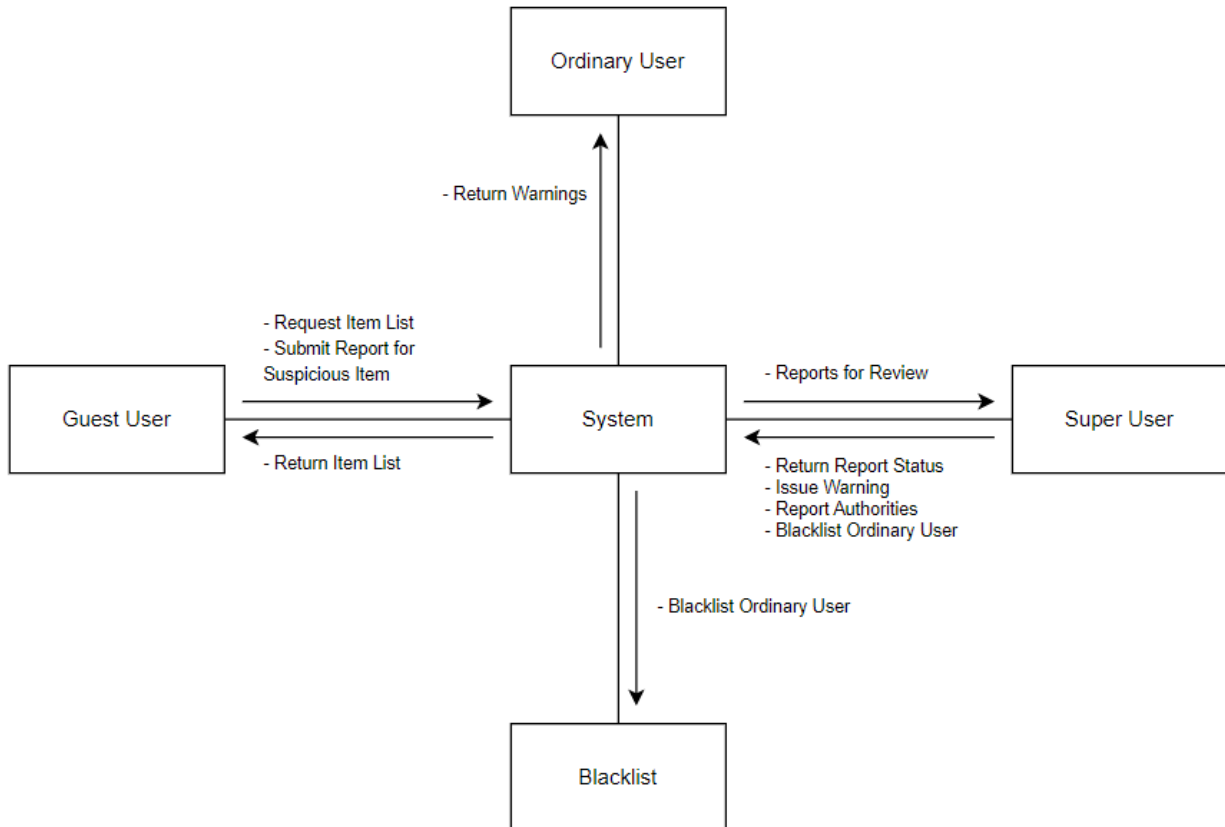
The following diagram is to represent how ordinary users will submit items for Super User to review for bidding.



Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

### 2.1.2 Guest User Browsing and Reporting Suspicious Items

The following diagram demonstrates how Guest Users will be able to browse listed item on the website and report items for review for Super Users .If the item is deemed suspicious Super User will issue warnings to the suspicious Ordinary User, if too many warnings has been issued, the user will be blacklisted from the site.

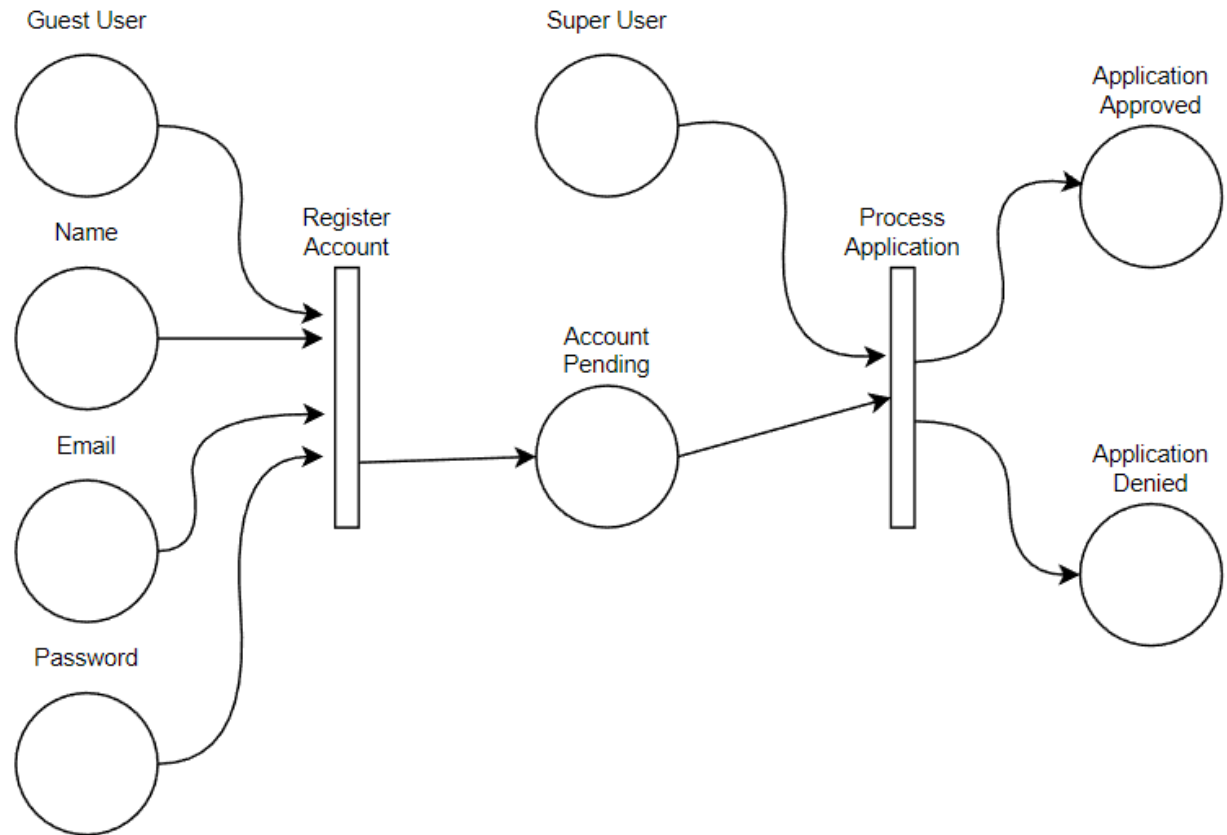


Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

### 2.3 Petri-net Diagram

#### 2.3.1 Registering Accounts

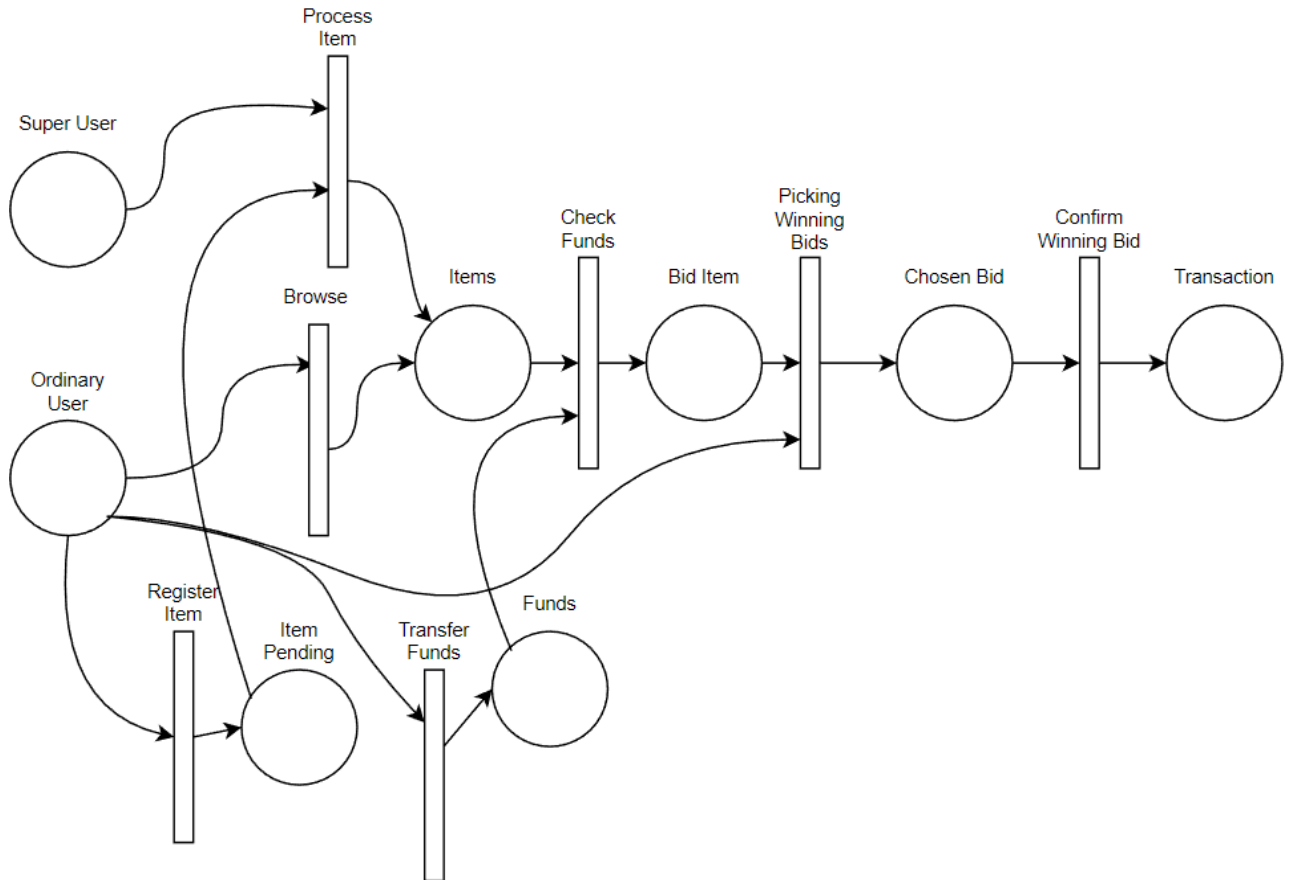
The following Petri-net diagram is to showcase how a Guest User will be able to register a new account in the system, A super User will oversee the Applications for approval.



Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

### 2.3.1 Bidding System

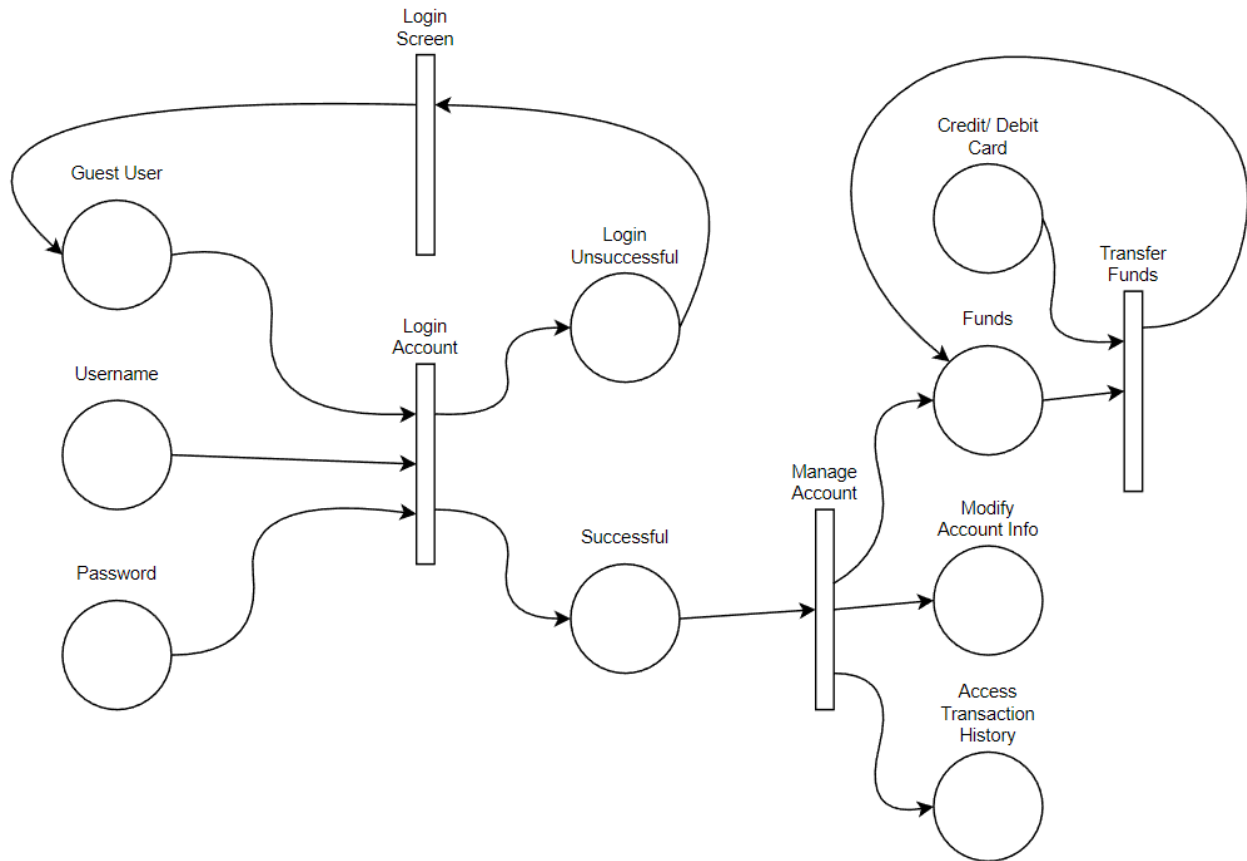
The diagram below is a representation of how users will bid items within the system, and how the process will proceed with Ordinary Users able to pick the winning bid if necessary.





Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

### 2.3.1 Login System





Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

## 4. **Detailed Design**

### 4.1 **AddNewItem**

input

title

endTime

startPrice

output

status

```
def AddNewItem(title, endTime, startPrice):
    get current user from request headers
    add new item to db with given information
    if successful return 200 series code
    else return 400 or 500 depending on error type
```

### 4.2 **UploadPicture**

input

fileData

itemId

output

status

```
def UploadPicture(fileData, itemId):
    get raw data stream of photo, upload to server and create DB entry or file
    Edit db entry to link to given item id
    if successful return 200 series code
    else return 400 or 500 depending on error type
```

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

#### 4.3 *PlaceBid*

input

itemId

bidAmount

output

status

def placeBid(itemId, bidAmount):

    get current user from request headers

    check if user has enough available funds for the bid

    if not, return 400 error

    if so create bid and return 200 status

#### 4.4 *ChooseBid*

input

itemId

bidId

output

status

def chooseBid(itemId, bidId):

    set winningBid to BidID

    if successful return 200 series code

    else return 400 or 500 depending on error type

#### 4.5 *login*

input:

username

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

password

output:

statusCode - Tells if the login was successful

sessionInformation - Returns information about the requested users session if successful

def login(username, password):

    check for user in db

        if not return 400 status

    hash PW and compare to PW in DB

        if incorrect return 400 status (don't send different error than user check, to make brute force attacks harder)

    return 200 and session information

#### 4.6 **register (Apply for account)**

input:

    username

    email

    firstname

    lastname

    password

    address

    phoneNumber

output:

    statusCode - returns success if application was queued successfully, or an error if it was not submitted

def register(username, email, firstname, lastname, password, address, phoneNumber):

    if username is already in use return error

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

if any input is invalid return error

else create user in db, set status to pending and return success

#### 4.7 ***processUserApplication***

input

applicationId

isApproved

output

status - was a related transaction based on isApproved status successful?

def processUserApplication(applicationId, isApproved):

get SUI from headers

update application status to match isApproved

if approved then enable user

if rejected then update information with rejection information

#### 4.8 ***FileComplaint***

input:

itemId

message

output:

status - was successfully entered into the report/complaint queue

def fileComplaint(itemId, message):

get submitterID from headers

create complaint in db with information

return success code

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

#### 4.9 SearchItems

input: - Not all inputs are required here

name

tagIds

page - allows to only request a specific offset of the items

limit - allows to only request a certain amount of items

output:

items - collection of items that match the input criteria. Given in an array format where each element is a serialized version of the item so the frontend can render them

def searchItems(name, tagIds, page, limit):

query DB for items with a similar name, and/or matching tagIds. Limit result amount to limit requested, and offset by page \* limit

return db query results

#### 4.10 UpdateProfileInformation - only user id is required, any other inputs are used to update the existing users information

input

userId - required

firstname

lastname

address

phoneNumber

email

password

output

status

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

```
def updateProfileInformation(userId, firstname, lastname, address, phoneNumber, email,
password):
```

find user with given id and update any given information

For password only the hashed version is stored

return 200 if successful, or an error code otherwise

#### 4.11 **transferFunds**

input

sourceId

targetId

amount

output

status

```
def transferFunds(sourceId, targetId, amount):
```

transfer funds from source to target. Ensure the source has at least the required amount to transfer.

Update target and sources balances to new amount

if any error then return error status code (400/500)

#### 4.12 **submitReview**

input

itemId

rating

description

output

status

```
def submitReview(itemId, rating, description):
```



Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

create a new rating for itemId, with given rating and description. Submitter information is retrieved from headers. person being evaluated is retrieved from item listing information

#### 4.13 *banUser*

input

userID

reason

output

status

def banUser(userID, reason):

update user with userID to be disabled with reason for ban

suid who made the ban is given from request headers

return status code

#### 4.14 *processItem*

input

itemId

newStatus

reason

output

status

def processItem(itemId, newstatus, reason):

update item with given id to either be approved or denied (given from newstatus), and reason

return status code

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

#### 4.15 *processReport*

input

reportId

newState

output

status

def processReport(reportId, newState):

    update given report to new state

    return status code

#### 4.16 *issueWarning*

input

referenceId

reason

userId

output

status

def issueWarning(referenceID, UserID, reason):

    create warning in db with given reference id, reason and userId, and get SUIid from request headers

#### 4.17 *viewStatistics*

input - at least one must be provided for any given request

startDateRange

endDateRange

name

tagIds

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

sellerId

ratingRange

buyerId

output

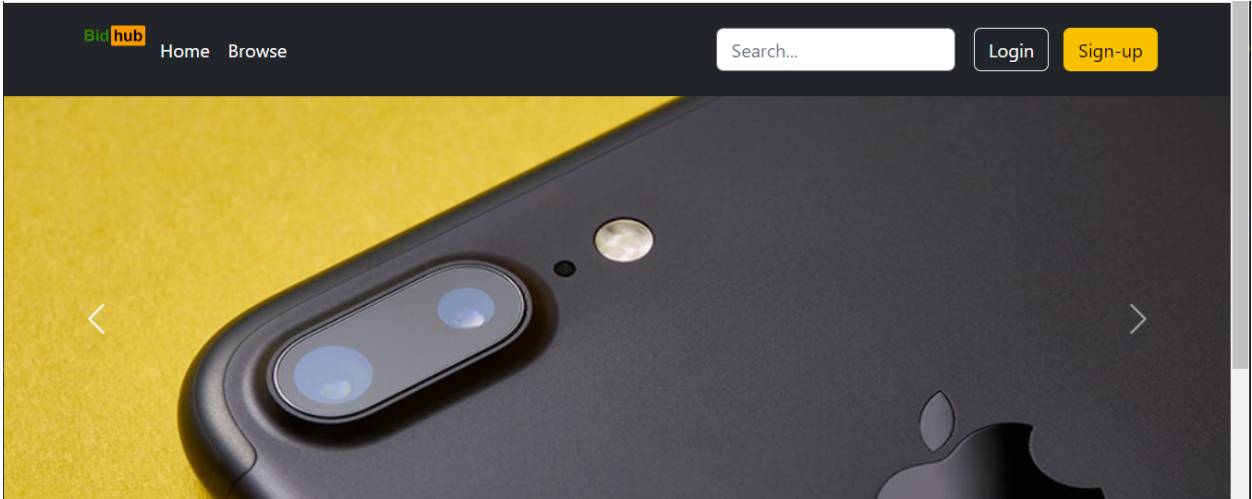
collection of items

```
def viewStatistics(startDateRange, endDateRange, name, tagIds, sellerId, ratingRange,
buyerId):
```

```
    return collection of items that match the given criteria
```

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

5.     ***System Screens***



Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	



Please sign in




☐ Remember me

Sign in

© 2022–2022

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	



## Registration form

### Personal information

First name

Last name

Username

Email (Optional)

Address

Address 2 (Optional)

Country  State  Zip

## 6. ***Memos of Group Meetings***

**Sep 13, 2022**

- Group members Meet and Greet
- All member is present

**Sep 28, 2022**

- Choosing Programming Language

**Oct 11, 2022**

- Started working on Design Report Phase I
- Distributed work to all members

**Oct 28, 2022**

- Finishing Design Report Phase I

Bid-hub	Version: 1.1
Phase II: Design Report	Date: 24/Nov/22
Phase 2 Report	

**Nov 10, 2022**

- Started working on Design Report Phase II
- Distributed work to all members

**Nov 21, 2022**

- Finalizing Design Report Phase II

## **7. Github Repo**

[https://github.com/armyf35/322\\_proj](https://github.com/armyf35/322_proj)