QUICK BIDD

Priyansh Agarwal (2022A7PS1293H)
Amritansh (2022A7PS1314H)
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Adit Rastogi(2022A7PS1330H)

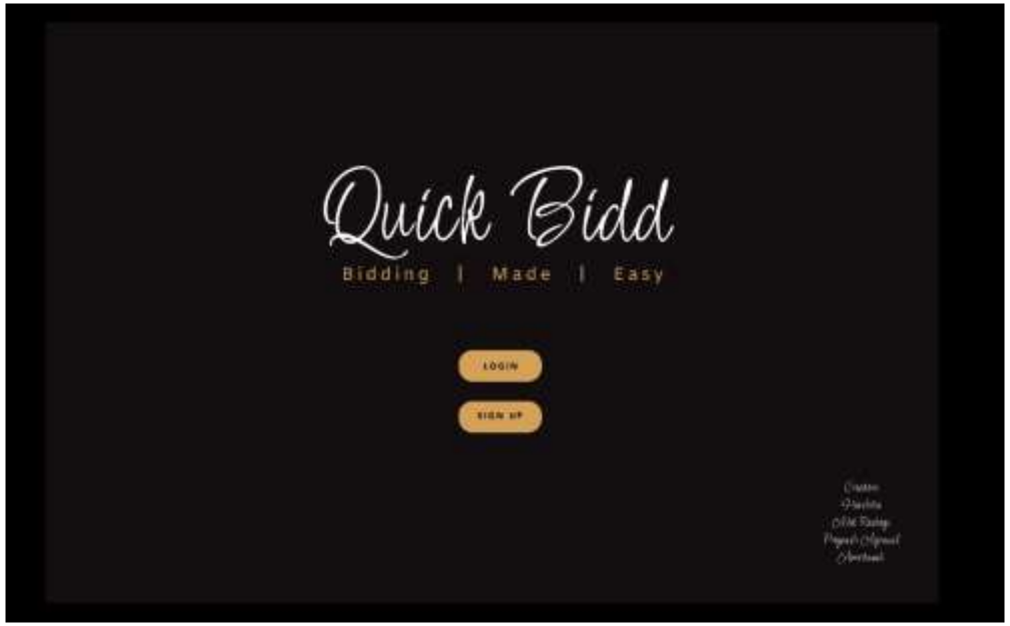
SECTIONS

- (A) PLANNED GUI
- (B) ARCHITECTURE SLIDES
- (C) TOOLS USED

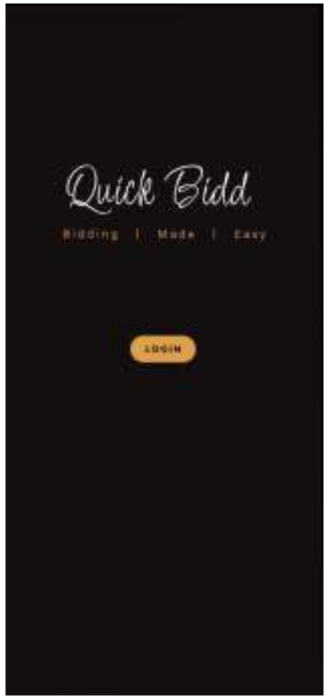
(A) PLANNED GUI

LOGIN PAGE

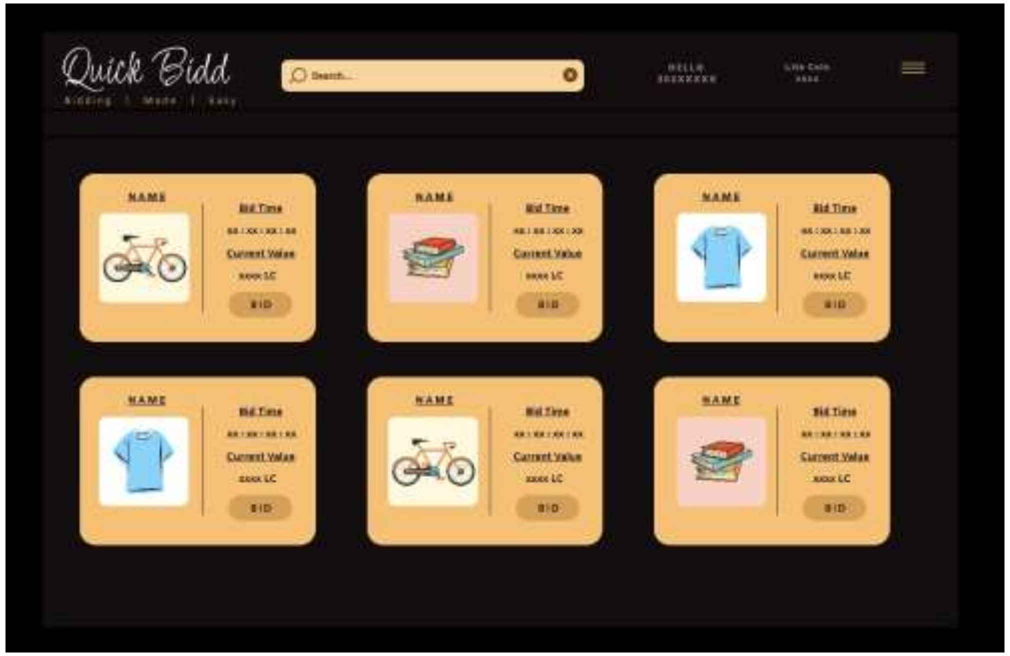
Desktop

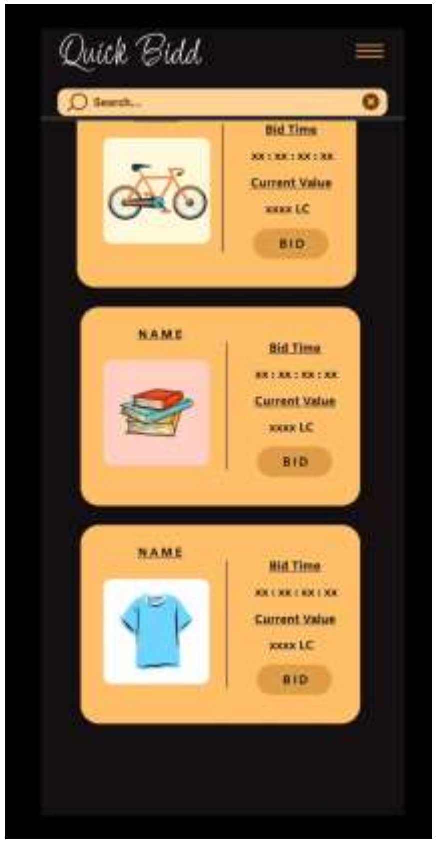


Mobile

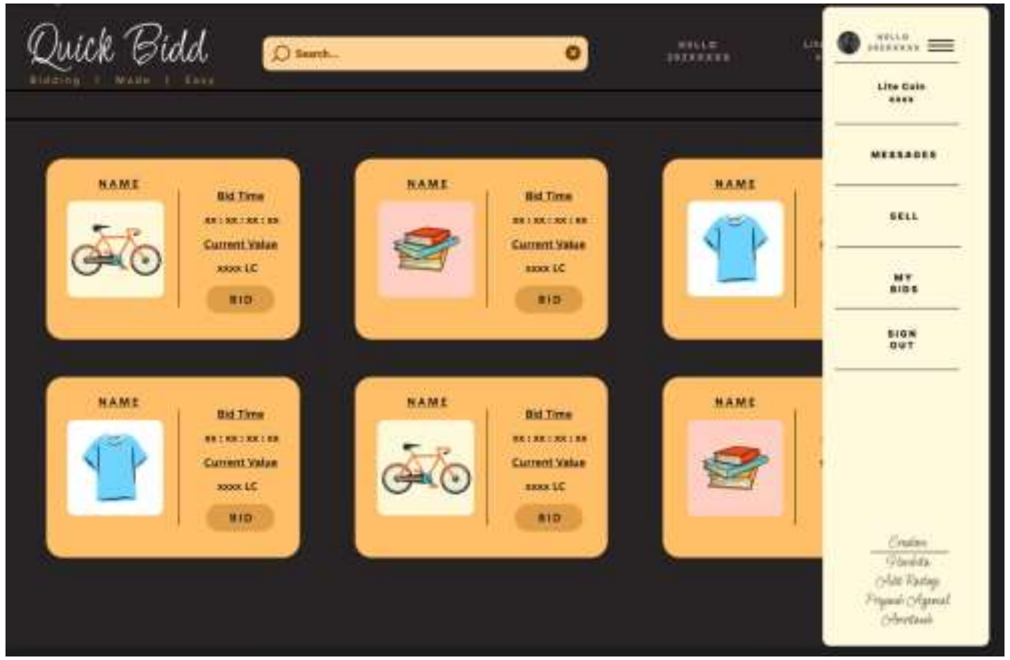


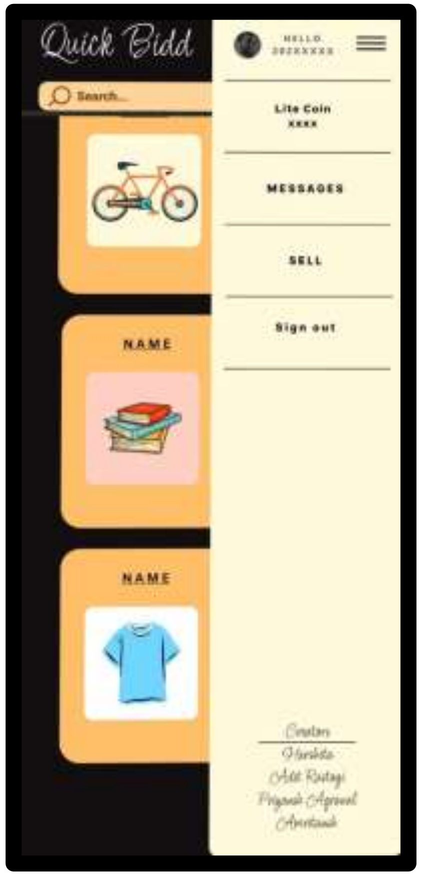
HOME PAGE


Quick Bidd
Bidding | Made | Easy
Search...
HELLO
XXXXXXXX
Lite Coin
xxxx
NAME
Bid Time
XX : XX : XX : XX
Current Value
xxxx LC
BID

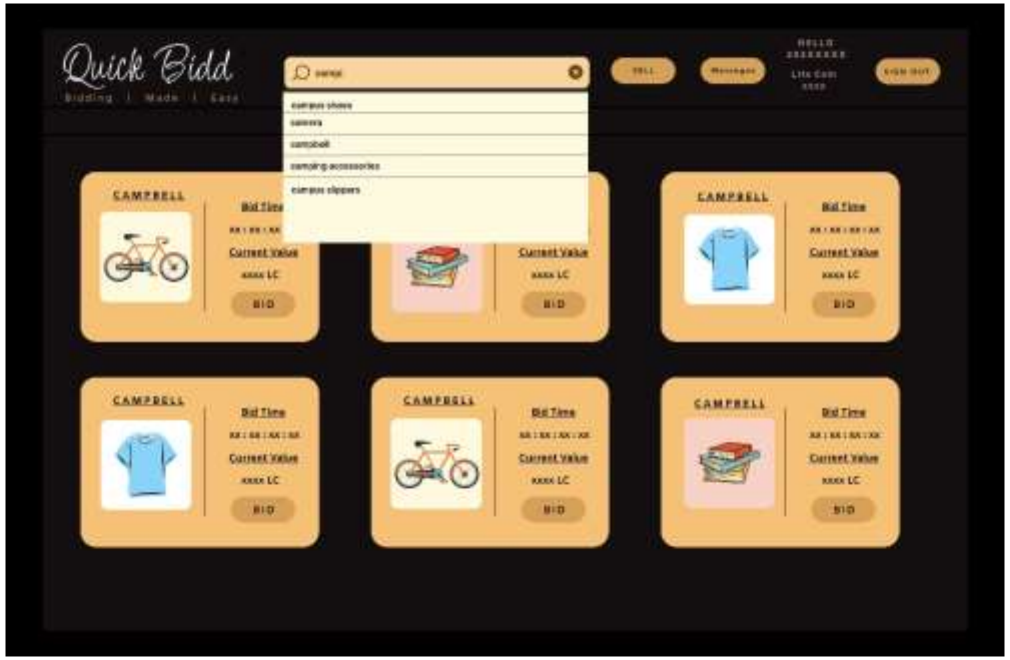

Quick Bidd
Search...
NAME
Bid Time
XX : XX : XX : XX
Current Value
xxxx LC
BID

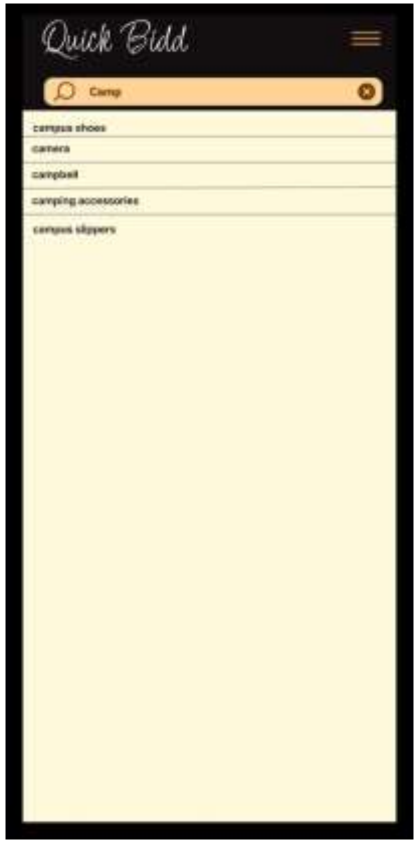
SIDE BAR


Quick Bidd
Bidding | Made | Easy
Search...
HELLO
NAME
Bid Time
xx : xx : xx : xx
Current Value
xxxx LC
BID
Lite Coin
xxxx
MESSAGES
SELL
MY BIDS
SIGN OUT

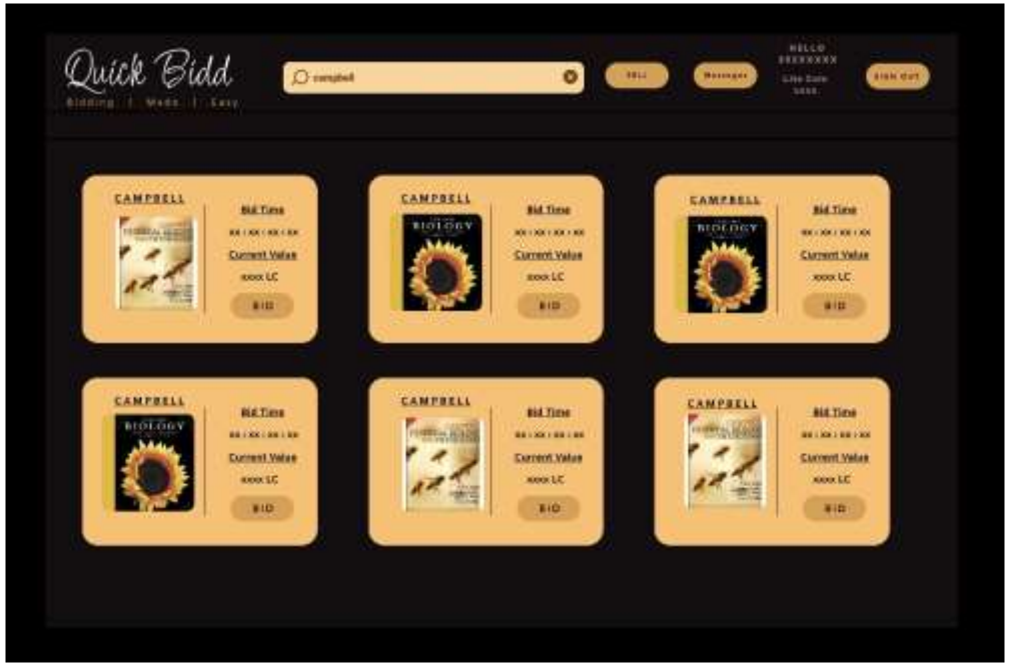

Quick Bidd
Search...
HELLO
Lite Coin
xxxx
MESSAGES
SELL
Sign out
NAME

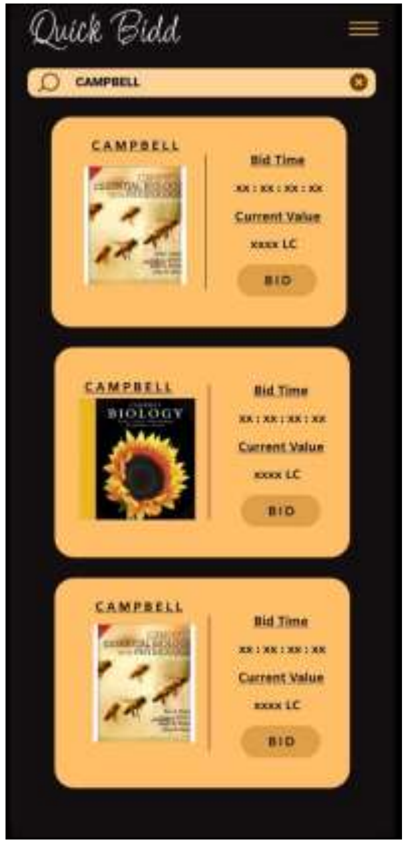
CONTEXTUAL SEARCH



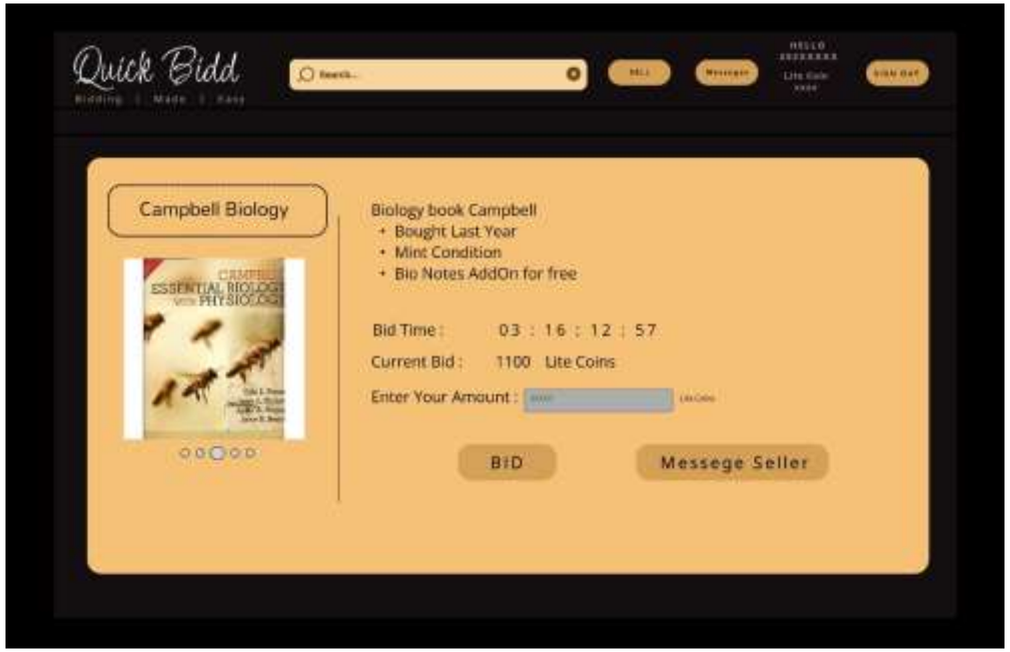


SEARCH RESULTS





SELECTED ITEM VIEW AND BIDDING

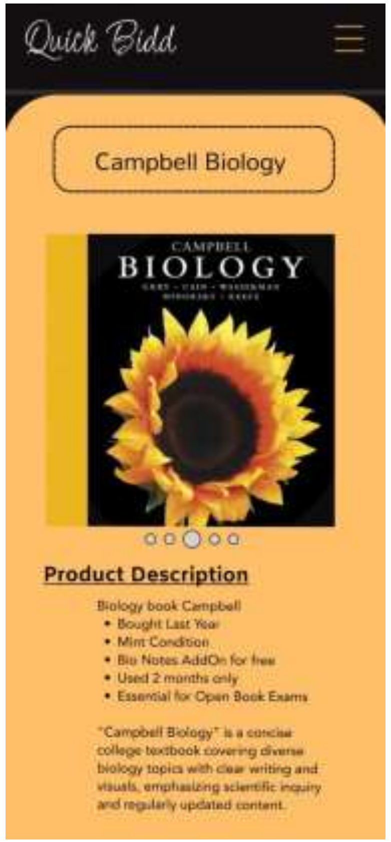


Biology book Campbell
- Bought Last Year
- Mint Condition
- Bio Notes AddOn for free

Bid Time : 03 : 16 : 12 : 57

Current Bid : 1100 Lite Coins

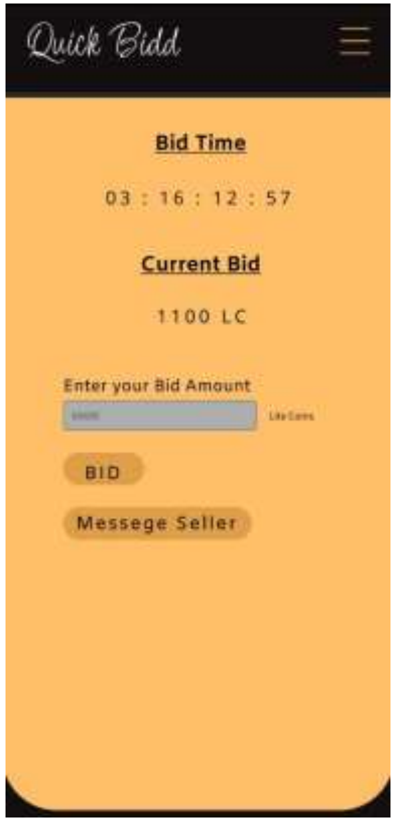
Enter Your Amount : Lite Coins



Product Description

Biology book Campbell
- Bought Last Year
- Mint Condition
- Bio Notes AddOn for free
- Used 2 months only
- Essential for Open Book Exams

"Campbell Biology" is a concise college textbook covering diverse biology topics with clear writing and visuals, emphasizing scientific inquiry and regularly updated content.



Bid Time

03 : 16 : 12 : 57

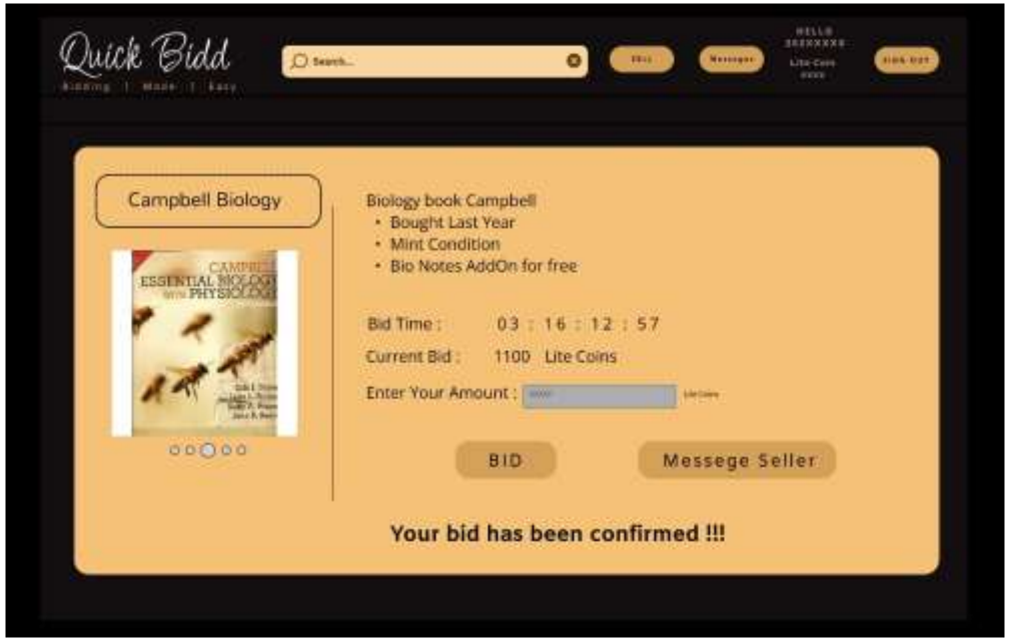
Current Bid

1100 LC

Enter your Bid Amount

Lite Coins

BID CONFIRMATION



Campbell Biology

Biology book Campbell
- Bought Last Year
- Mint Condition
- Bio Notes AddOn for free

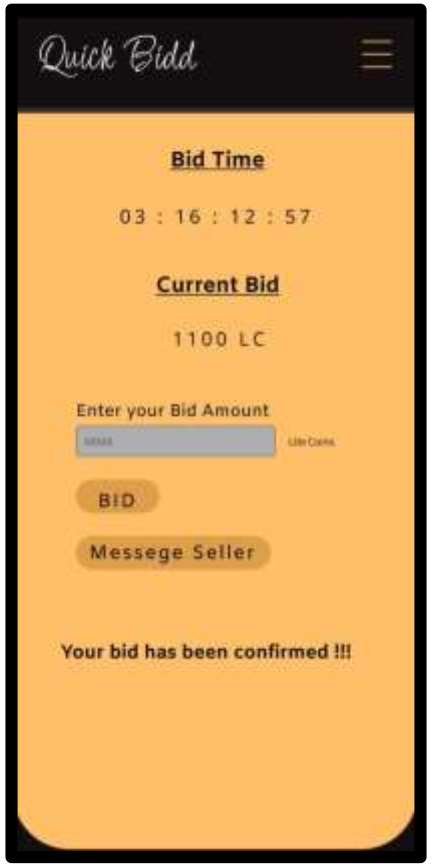
Bid Time : 03 : 16 : 12 : 57

Current Bid : 1100 Lite Coins

Enter Your Amount : Lite Coins

BID Messege Seller

Your bid has been confirmed !!!



Bid Time

03 : 16 : 12 : 57

Current Bid

1100 LC

Enter your Bid Amount

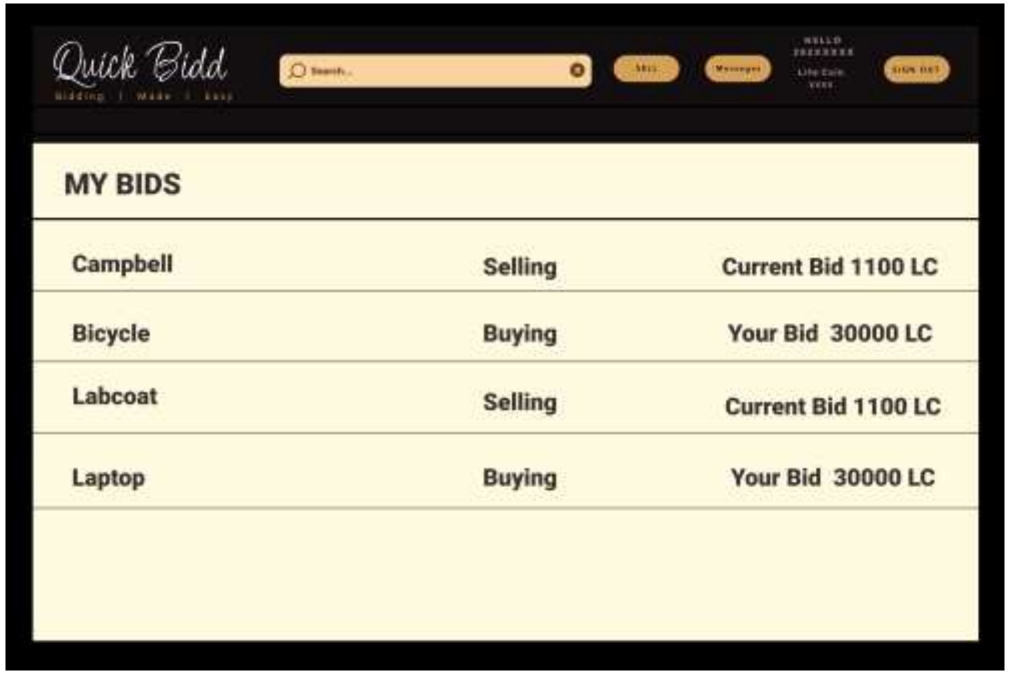
Lite Coins

BID

Messege Seller

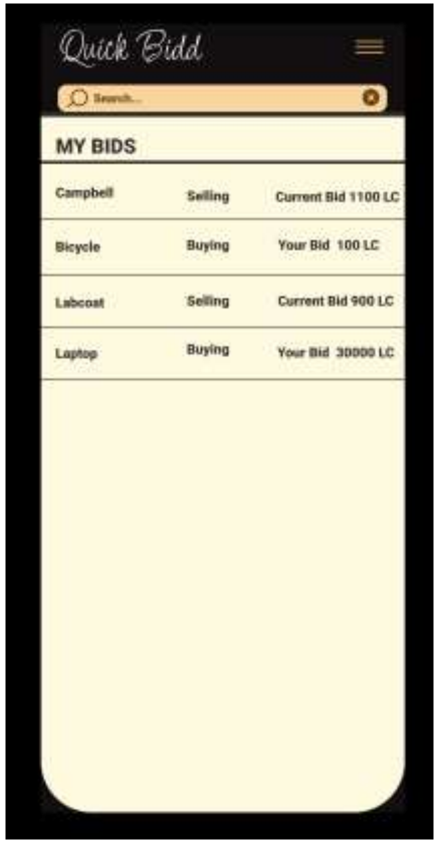
Your bid has been confirmed !!!

MY BIDS PAGE



MY BIDS

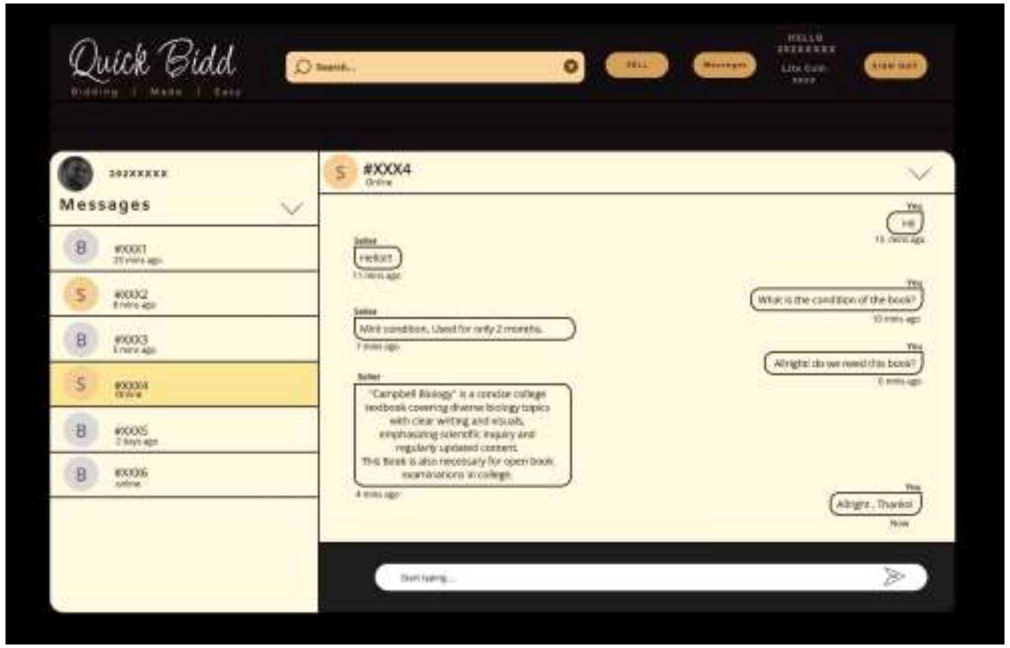
Campbell	Selling	Current Bid 1100 LC
Bicycle	Buying	Your Bid 30000 LC
Labcoat	Selling	Current Bid 1100 LC
Laptop	Buying	Your Bid 30000 LC



MY BIDS

Campbell	Selling	Current Bid 1100 LC
Bicycle	Buying	Your Bid 100 LC
Labcoat	Selling	Current Bid 900 LC
Laptop	Buying	Your Bid 30000 LC

CHAT BOX


Quick Bidd
Bidding | Made | Easy
Search...
SELL
Messages
HELLO 202XXXXX
Lite Coin XXXX
SIGN OUT

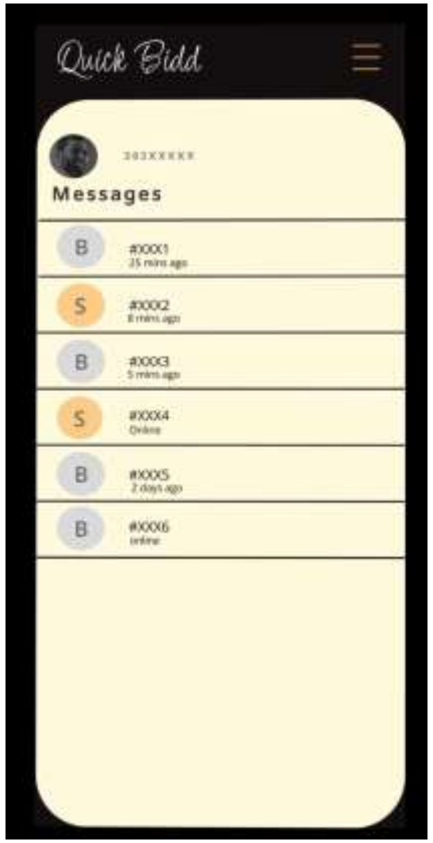
202XXXXX
Messages

B #XXX1 25 mins ago
S #XXX2 8 mins ago
B #XXX3 5 mins ago
S #XXX4 Online
B #XXX5 2 days ago
B #XXX6 online

S #XXX4
Online

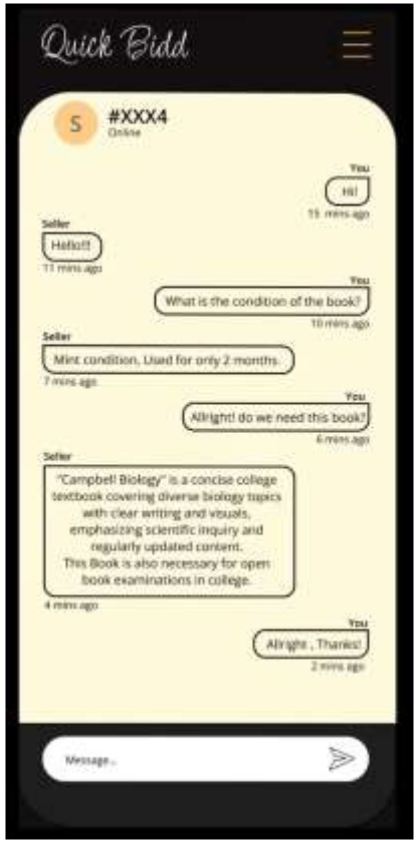
You: Hi! — 15 mins ago
Seller: Hello!! — 11 mins ago
You: What is the condition of the book? — 10 mins ago
Seller: Mint condition, Used for only 2 months. — 7 mins ago
You: Allright! do we need this book? — 6 mins ago
Seller: "Campbell Biology" is a concise college textbook covering diverse biology topics with clear writing and visuals, emphasizing scientific inquiry and regularly updated content. This Book is also necessary for open book examinations in college. — 4 mins ago
You: Alright , Thanks! — Now

Start typing...


Quick Bidd

202XXXXX
Messages

B #XXX1 25 mins ago
S #XXX2 8 mins ago
B #XXX3 5 mins ago
S #XXX4 Online
B #XXX5 2 days ago
B #XXX6 online

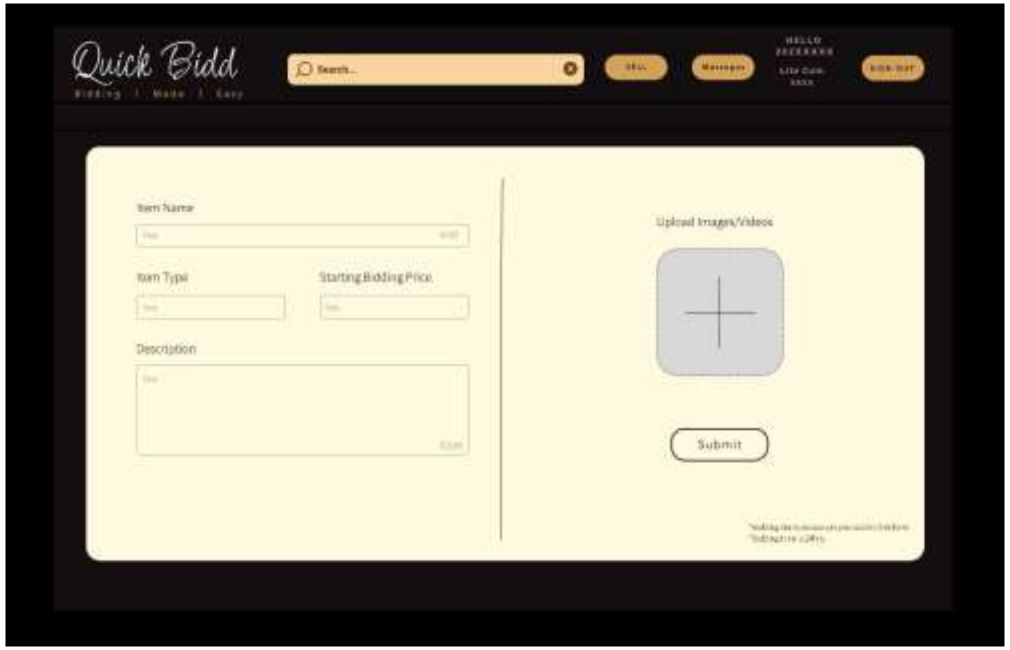

Quick Bidd

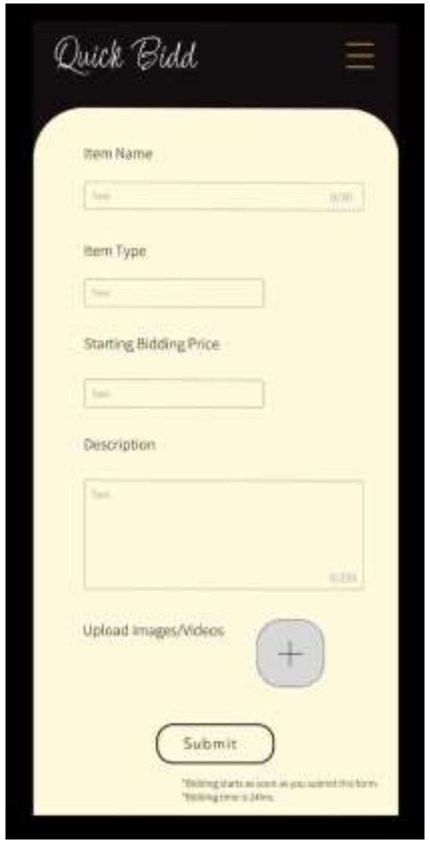
S #XXX4
Online

You: Hi! — 15 mins ago
Seller: Hello!! — 11 mins ago
You: What is the condition of the book? — 10 mins ago
Seller: Mint condition, Used for only 2 months. — 7 mins ago
You: Allright! do we need this book? — 6 mins ago
Seller: "Campbell Biology" is a concise college textbook covering diverse biology topics with clear writing and visuals, emphasizing scientific inquiry and regularly updated content. This Book is also necessary for open book examinations in college. — 4 mins ago
You: Allright , Thanks! — 2 mins ago

Message...

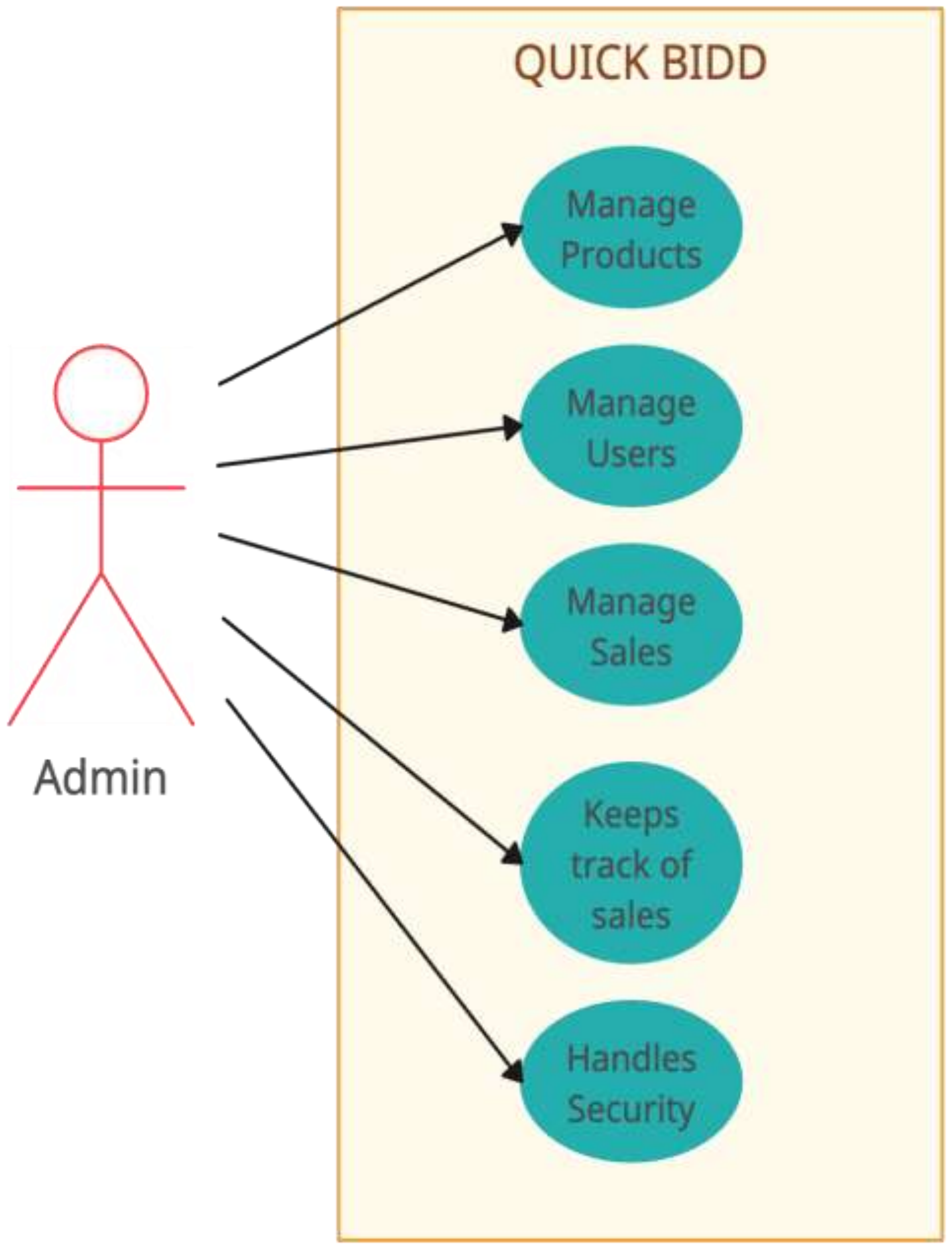
FORM TO UPLOAD ITEM

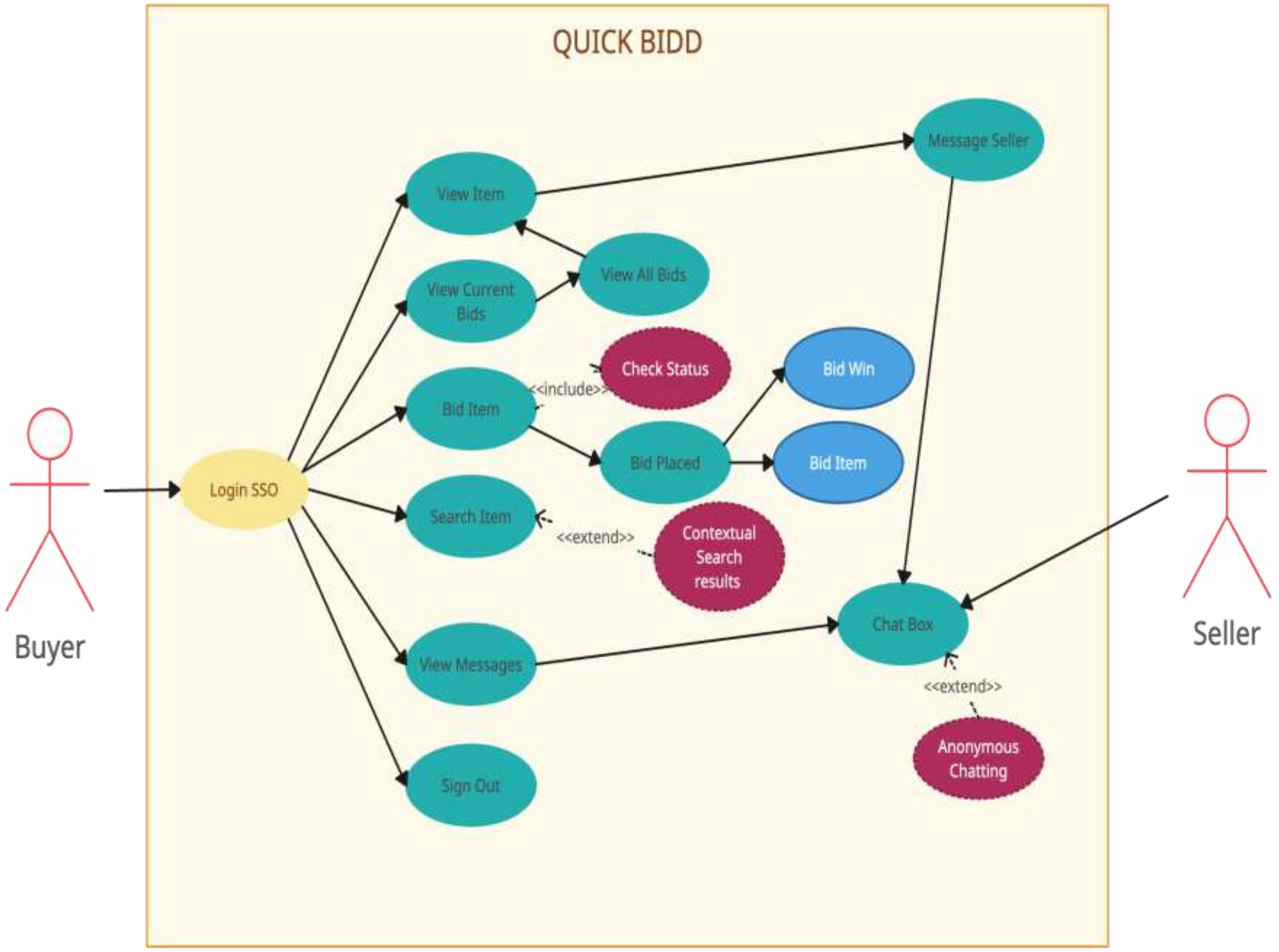


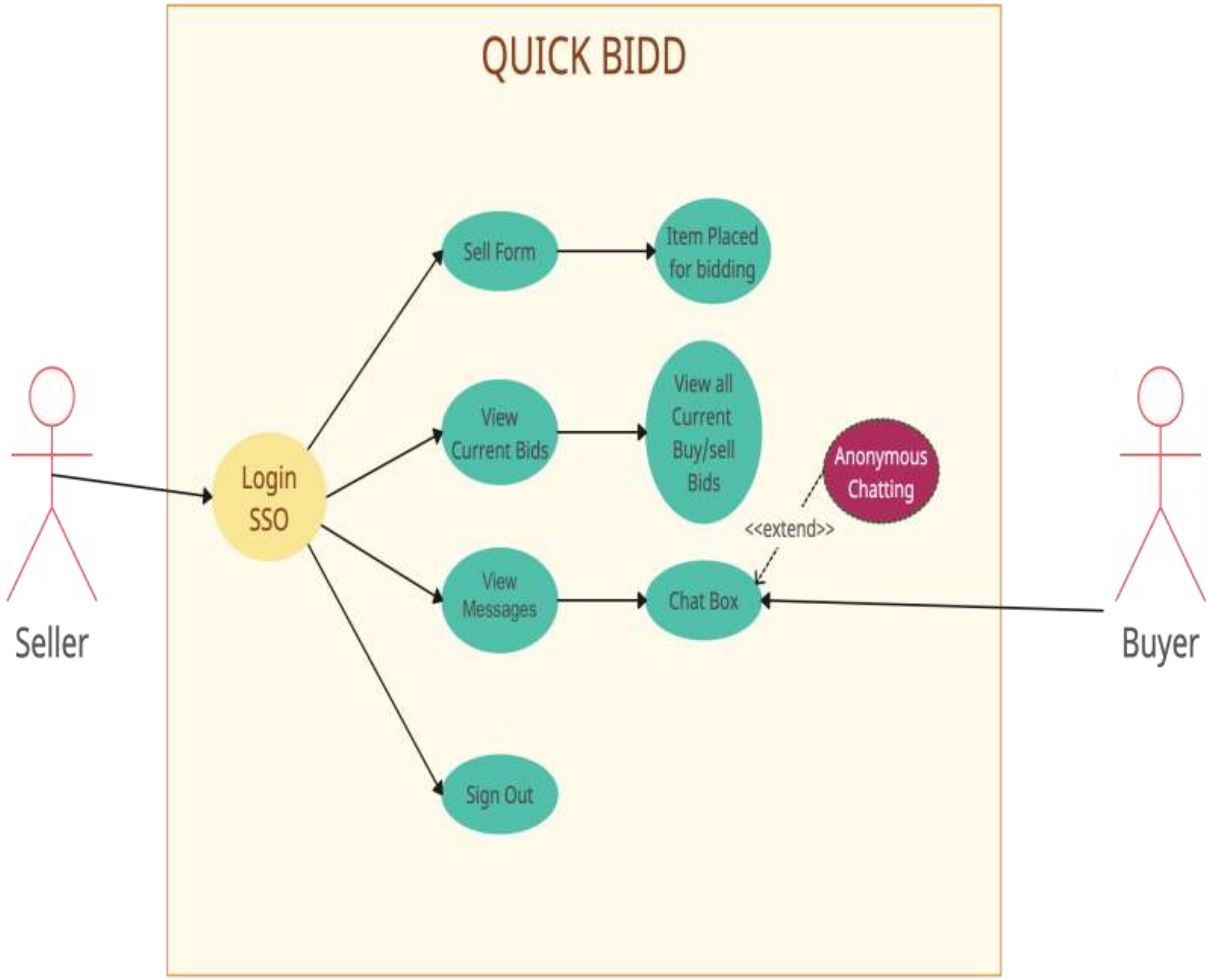


(B)ARCHITECTURE SLIDES

(B.1) USE CASE DIAGRAM

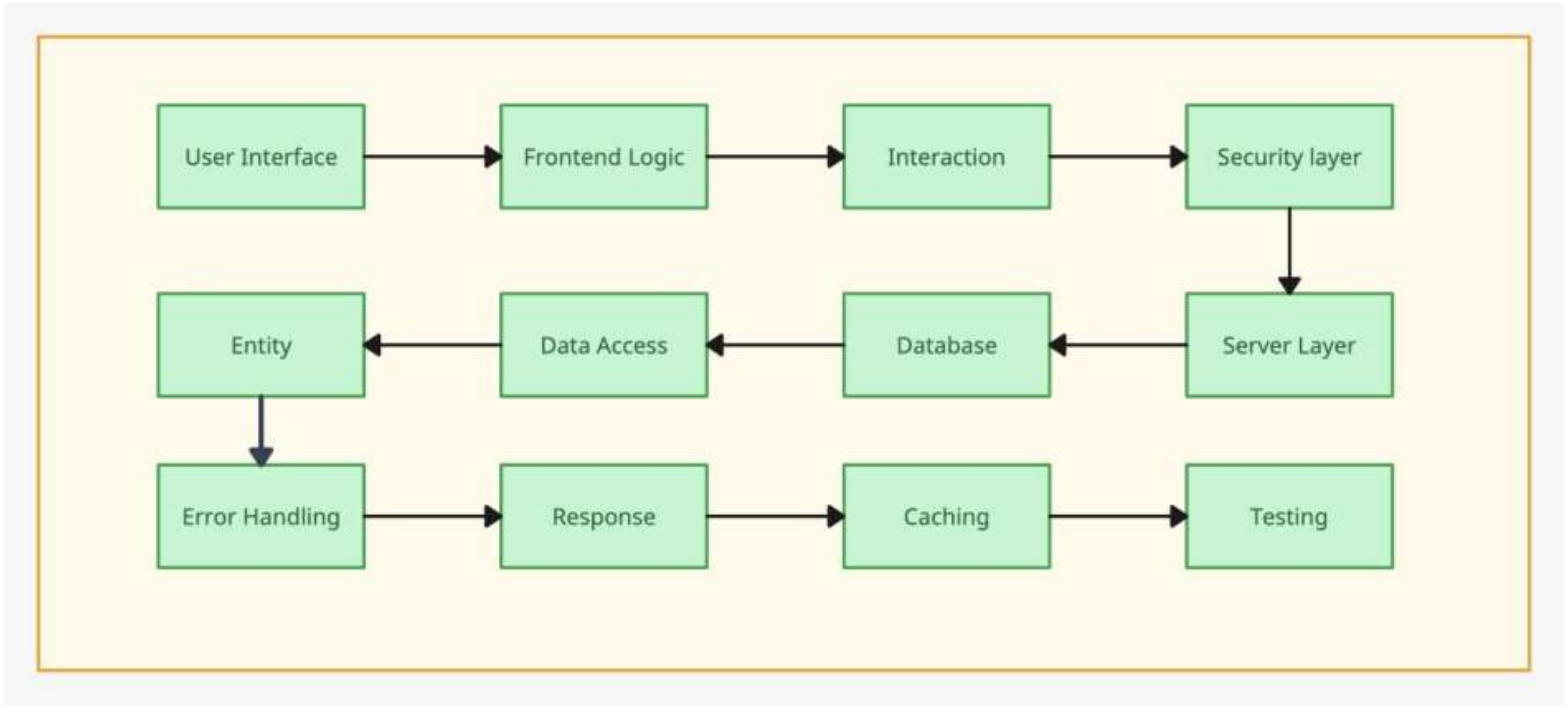

QUICK BIDD
Admin
Manage Products
Manage Users
Manage Sales
Keeps track of sales
Handles Security


QUICK BIDD
Buyer
Login SSO
View Item
View Current Bids
View All Bids
Message Seller
Check Status
<<include>>
Bid Item
Bid Win
Bid Placed
Bid Item
Search Item
<<extend>>
Contextual Search results
Chat Box
View Messages
<<extend>>
Anonymous Chatting
Sign Out
Seller


QUICK BIDD
Seller
Login SSO
Sell Form
Item Placed for bidding
View Current Bids
View all Current Buy/sell Bids
Anonymous Chatting
<<extend>>
View Messages
Chat Box
Sign Out
Buyer

(B.2) API LAYER

API LAYER FLOW CHART



- 1) **User Interface Layer** - It includes the webpage, its components and user interactions. We will be using CSS, HTML, and React.js for implementing this layer.

- 2) **Frontend Logic Layer** - It contains the logic to handle user inputs, make API calls and modify the interface.

- 3) **Interaction Layer** - It handles the incoming HTTP requests and distributes these requests to required controller methods and hence, controls the flow of data.

- 4) **Security Layer** - It handles the authentication and authorization of client request for logging in the website using Single Sign - On. It checks if the client's email domain is from (@hyderabad.bits-pilani.ac.in) or not. If the email is valid, user is granted access to the platform. If the email is invalid, access is denied. We will configure Spring Security to integrate our application with OAuth2 and define the rules to protect API endpoints.

- 5) **Server Layer** - It is used for hosting to local server for getting and updating data to the database.

- 6) **Database Layer** - This layer stores and manages the application's data and the user data obtained from BITS Email SSO. We will be using mySQL for making our database.

- 7) **Data Access Layer** - We will be using Spring JPA repositories for accessing data from the database. This layer handles the basic operations (i.e create, read, update, delete) and interacts with the database to fetch and modify data.

- 8) **Entity Layer** - This layer holds the basic model of our application. The Java classes in this layer map to the database tables. We will use JPA annotations like @Entity and @Table for mapping.

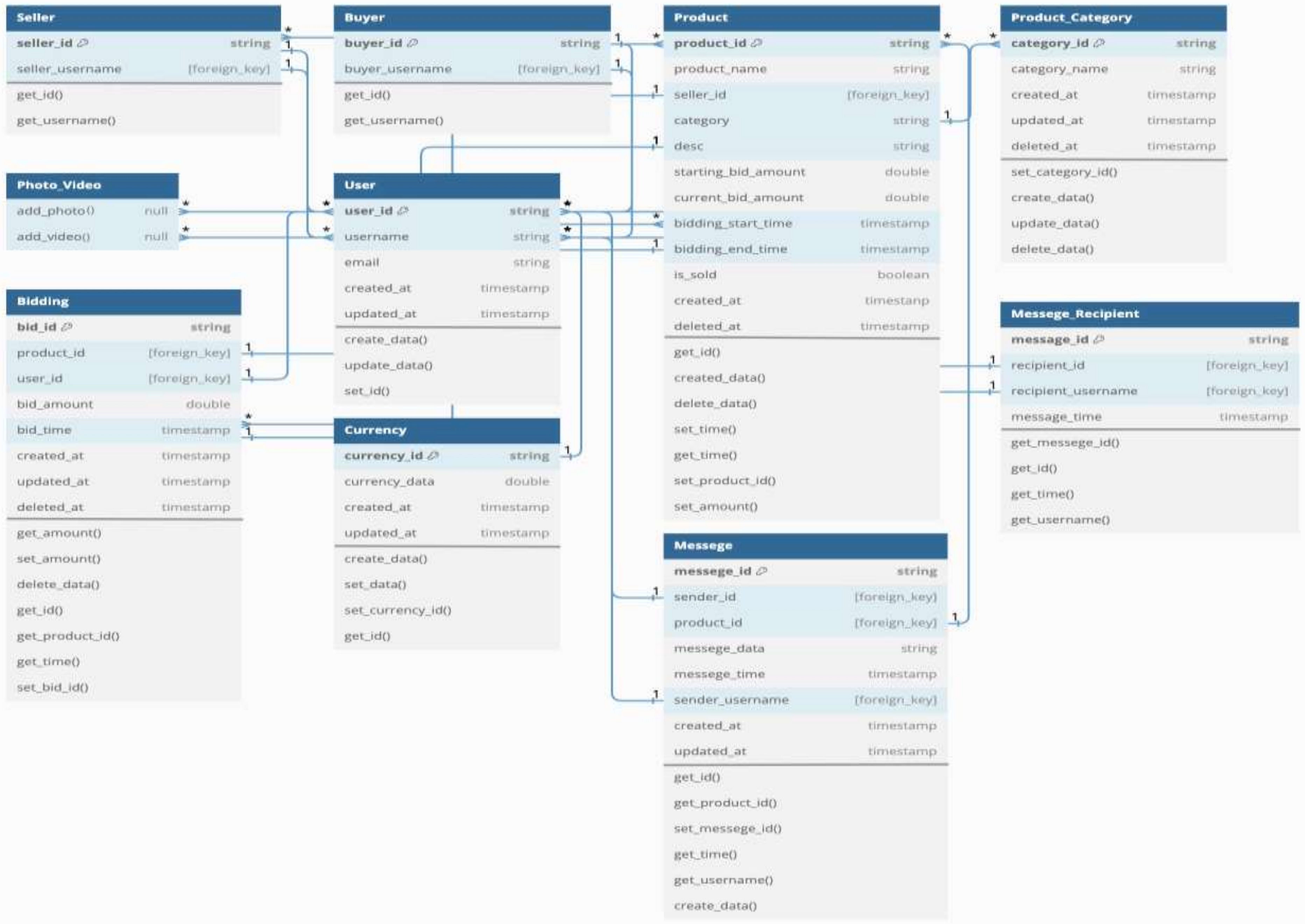
- 9) **Error Handling Layer** - It checks if the inputs from the client are valid or not, and therefore, provides error responses to the client accordingly.

- 10) **Response Layer** - It formats the API responses as JSON. We will use Spring ResponseEntity to control the HTTP responses.

- 11) **Caching Layer** - We will use @Cacheable annotation of Spring to store frequently accessed data into cache along the request - response path. This would improve performance of our model.

- 12) **Testing Layer** - We will use Postman to test if our APIs are working correctly. We will use JUnit tests for testing methods of each class. Also, we will use @SpringBootTest annotation to configure our application.

(B.3) SCHEMA



Seller	
seller_id	string
seller_username	[foreign_key]
get_id()	
get_username()	

Buyer	
buyer_id	string
buyer_username	[foreign_key]
get_id()	
get_username()	

Product	
product_id	string
product_name	string
seller_id	[foreign_key]
category	string
desc	string
starting_bid_amount	double
current_bid_amount	double
bidding_start_time	timestamp
bidding_end_time	timestamp
is_sold	boolean
created_at	timestamp
deleted_at	timestamp
get_id()	
created_data()	
delete_data()	
set_time()	
get_time()	
set_product_id()	
set_amount()	

Product_Category	
category_id	string
category_name	string
created_at	timestamp
updated_at	timestamp
deleted_at	timestamp
set_category_id()	
create_data()	
update_data()	
delete_data()	

Photo_Video	
add_photo()	null
add_video()	null

User	
user_id	string
username	string
email	string
created_at	timestamp
updated_at	timestamp
create_data()	
update_data()	
set_id()	

Bidding	
bid_id	string
product_id	[foreign_key]
user_id	[foreign_key]
bid_amount	double
bid_time	timestamp
created_at	timestamp
updated_at	timestamp
deleted_at	timestamp
get_amount()	
set_amount()	
delete_data()	
get_id()	
get_product_id()	
get_time()	
set_bid_id()	

Currency	
currency_id	string
currency_data	double
created_at	timestamp
updated_at	timestamp
create_data()	
set_data()	
set_currency_id()	
get_id()	

Messege_Recipient	
message_id	string
recipient_id	[foreign_key]
recipient_username	[foreign_key]
message_time	timestamp
get_messege_id()	
get_id()	
get_time()	
get_username()	

Messege	
messege_id	string
sender_id	[foreign_key]
product_id	[foreign_key]
messege_data	string
messege_time	timestamp
sender_username	[foreign_key]
created_at	timestamp
updated_at	timestamp
get_id()	
get_product_id()	
set_messege_id()	
get_time()	
get_username()	
create_data()	

(C)TOOLS USED

- UI/UX
  - Figma – Website Designing
  - DB diagrams - Database Schema
  - Creately – Use Case Diagram

- Front End
  - HTML
  - CSS
  - JavaScript
  - Bootstrap
  - React Js

- Back End
  - Java
  - Spring boot
  - MySQL
  - Postman API

THANK YOU