
Project Topic:
***“E-commerce website to sell secondhand product;
Bidding system for AIT.”***

UI Mockups

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<https://github.com/shubhanginigon/Bid-Buy-Sell-Project>
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1. Preliminary Use Case Models

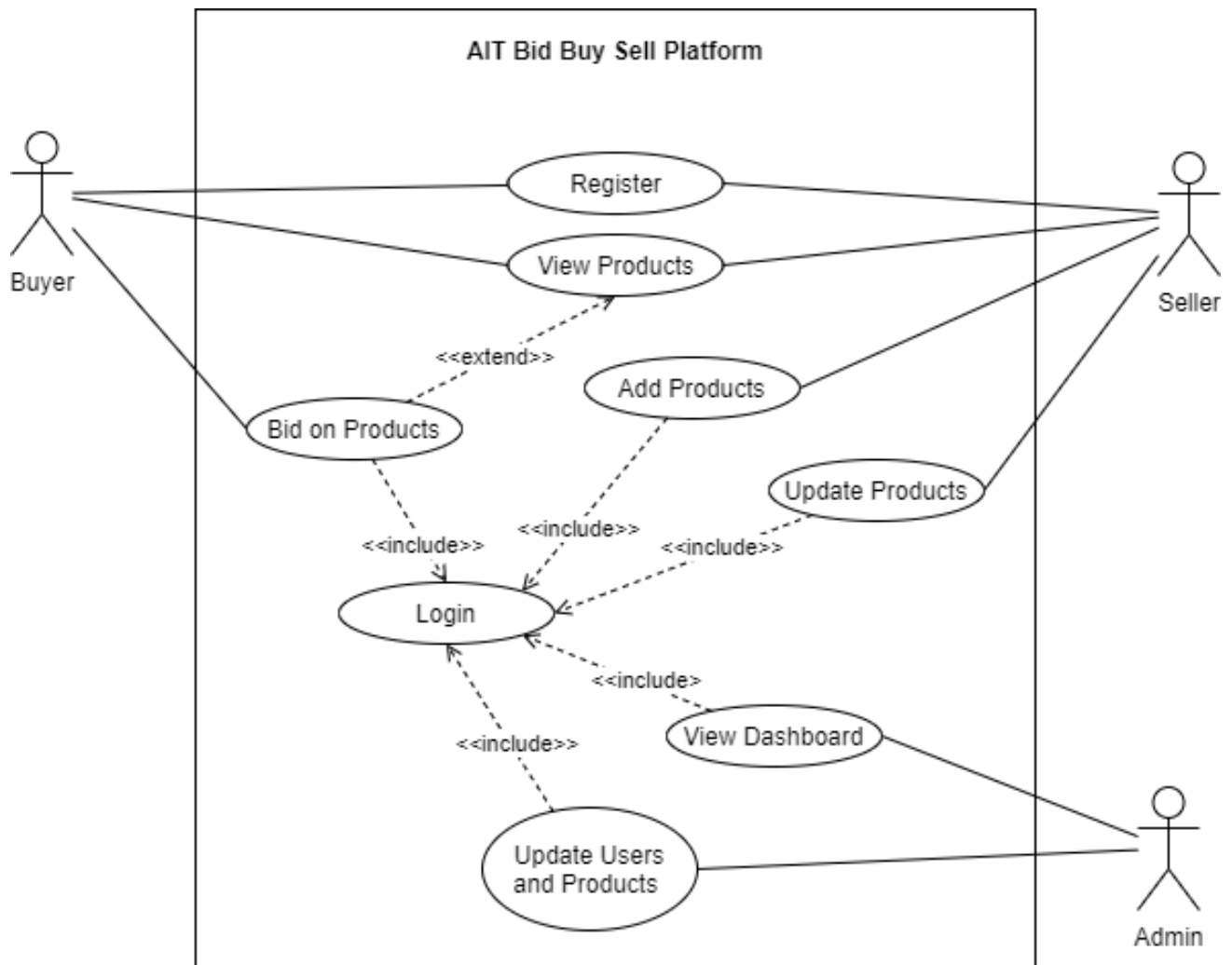


Figure 1. Use Case diagram

2. Initial mockup interface design for the use case

2.1. Register

A registration page will be displayed once the user clicks on the register button. The registration page will allow the user to enter the personal details like Full Name, Gender and credentials as Email, Phone number and password. The form details are validated and the user submits the form by clicking on the register button, a verification mail will be sent to the user's email address. Once the user clicks on the link in his email, his account will be verified and he will be able to login to the system.

A mockup of a web registration form titled "Registration Form". It features five input fields: "Full Name:" (text), "Gender:" (dropdown menu with "Male" and "Female" options), "AIT email id:" (text), "Phone Number:" (text), and "New Password:" (text). A "Register" button is located at the bottom right of the form.

Figure 3. Registration Form

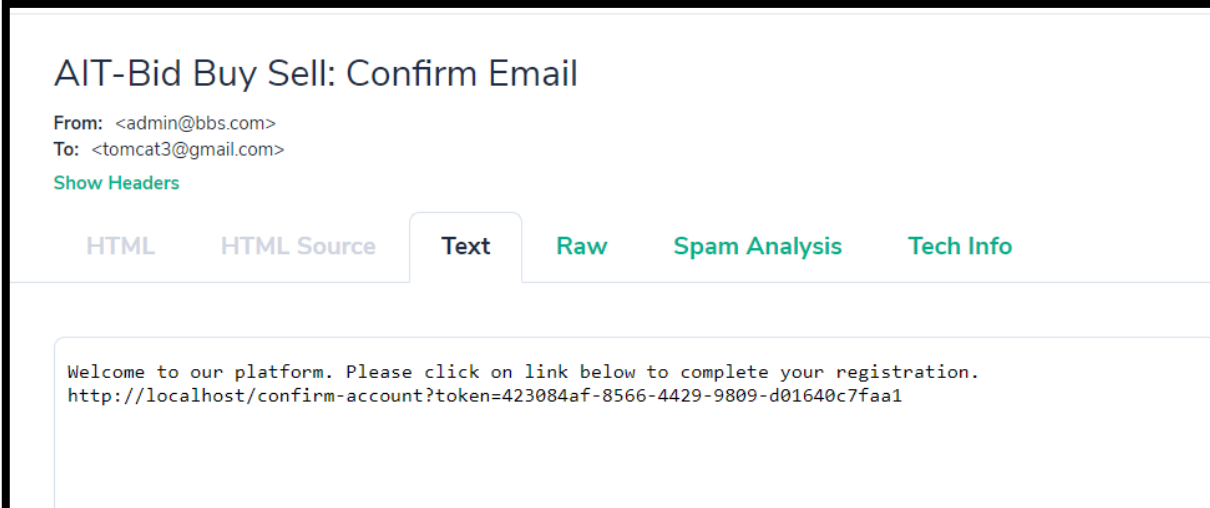
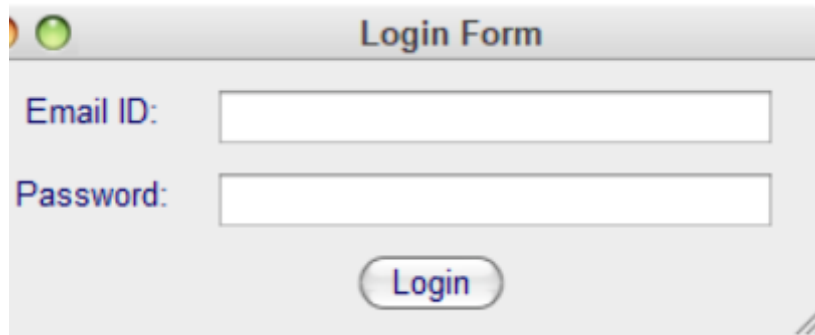
A mockup of an email confirmation message. The header reads "AIT-Bid Buy Sell: Confirm Email". Below it, the "From:" field is "<admin@bbs.com>" and the "To:" field is "<tomcat3@gmail.com>". There is a "Show Headers" link. Below the header, there are tabs for "HTML", "HTML Source", "Text", "Raw", "Spam Analysis", and "Tech Info". The "Text" tab is selected, showing the message: "Welcome to our platform. Please click on link below to complete your registration. http://localhost/confirm-account?token=423084af-8566-4429-9809-d01640c7faa1".

Figure 2. Confirms email.

2.2. Login

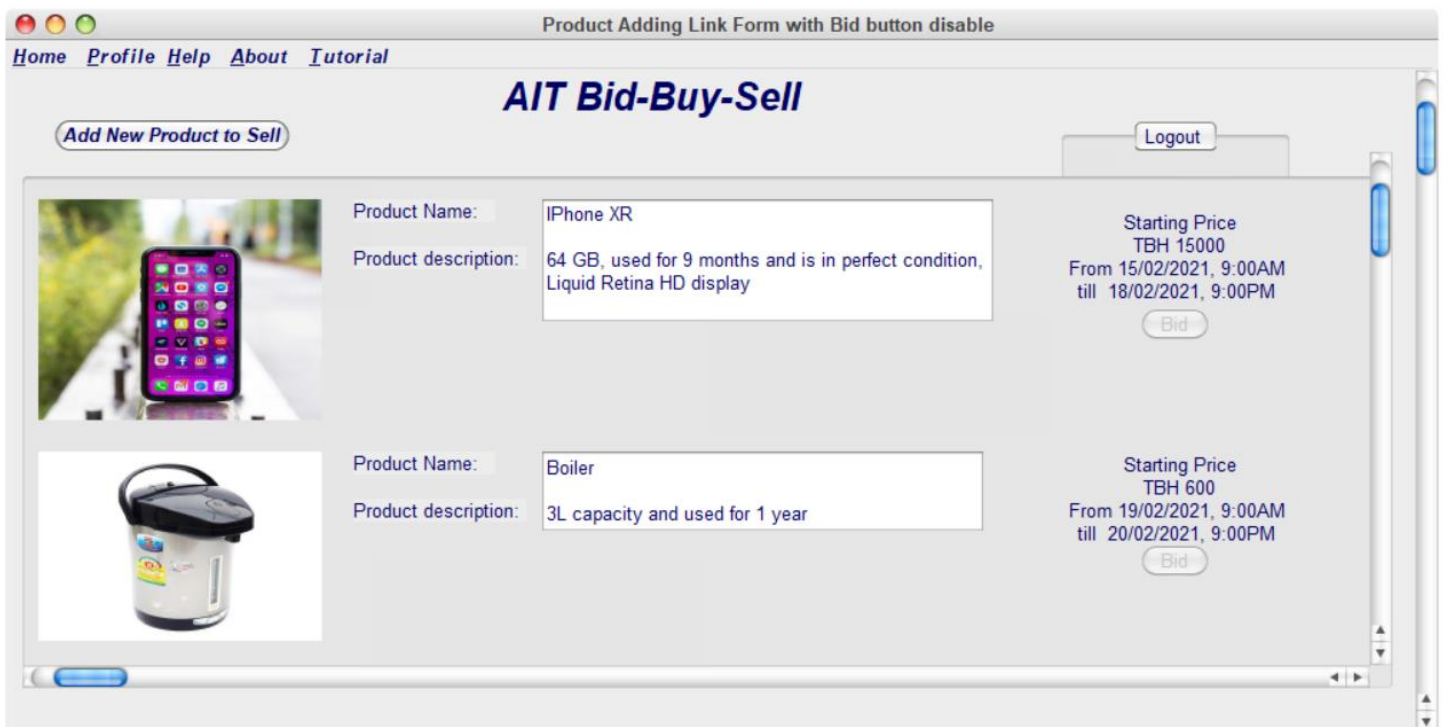
A login page will be displayed when the user clicks on the Login button in the home page. Users can login using the valid email and password. After the user clicks on the Login button the user will be logged on.



A screenshot of a 'Login Form' window. It has a title bar with three colored buttons (red, yellow, green) on the left. The form contains two input fields: 'Email ID:' and 'Password:'. Below these fields is a 'Login' button. The window has a light gray background and a standard macOS-style title bar.

Figure 4. Login Form

After logging in, the user can add a new product to sell and can bid on the other products in the queue. Bid button will be disabled till the bid is started.



A screenshot of the 'AIT Bid-Buy-Sell' home page. The window title is 'Product Adding Link Form with Bid button disable'. The page has a menu bar with 'Home', 'Profile', 'Help', 'About', and 'Tutorial'. A 'Logout' button is in the top right. The main content area is divided into two sections for product listings. Each section includes a product image, a 'Product Name' field, a 'Product description' field, a 'Starting Price', a 'TBH' (Total Bids) value, and a bid time range. The first product is an 'iPhone XR' with a starting price of 'TBH 15000' and a bid time from '15/02/2021, 9:00AM' to '18/02/2021, 9:00PM'. The second product is a 'Boiler' with a starting price of 'TBH 600' and a bid time from '19/02/2021, 9:00AM' to '20/02/2021, 9:00PM'. Both sections have a 'Bid' button. There is also an 'Add New Product to Sell' button in the top left.

Figure 5. Home Page

2.3. View product

This is the first page users will be able to access, displaying the menu bar with Home, Profile, Help, About and Tutorial. It will display the products in the queue to start the bid and the details of the product including price, start and end time for bid. Users can access the registration and login button from the home page.

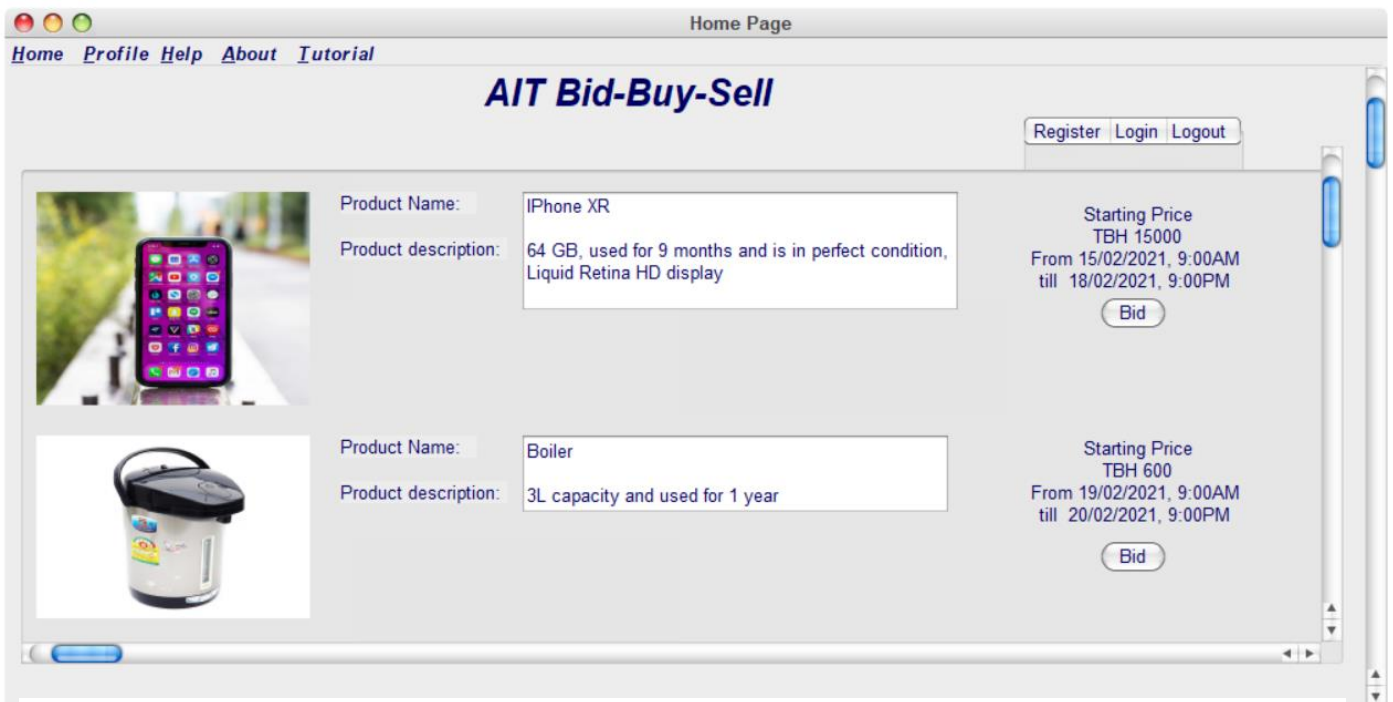


Figure 6. Home page

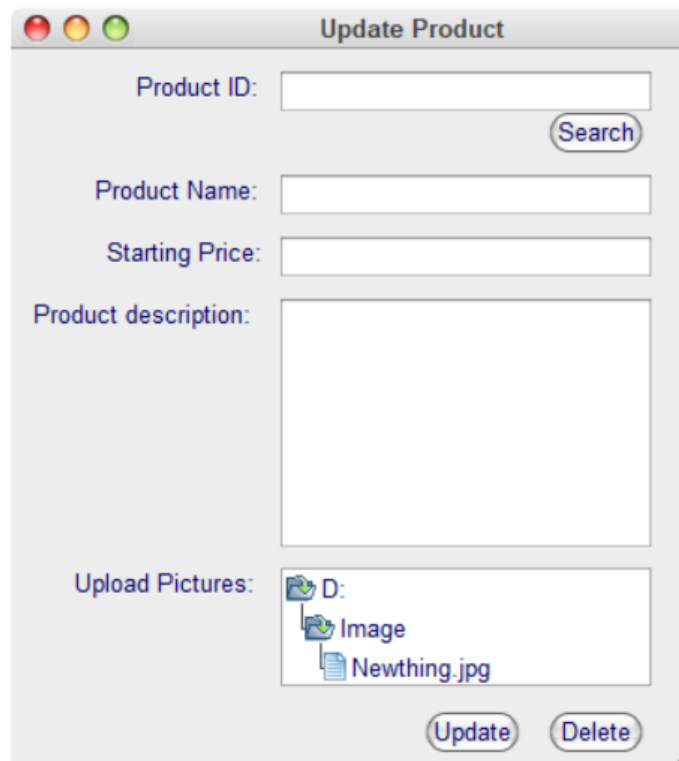
2.4. Add Product.

When a user clicks on add product to sell, the following form will be displayed, asking for product name, price, description, and upload picture of product, etc. After the user clicks on the submit button the product will be added to the bid queue for selling.

Figure 7. Adding Form

2.5. Update Product

If admin/seller want to update information about product then they can search the product and update it.



Update Product

Product ID:

Product Name:

Starting Price:

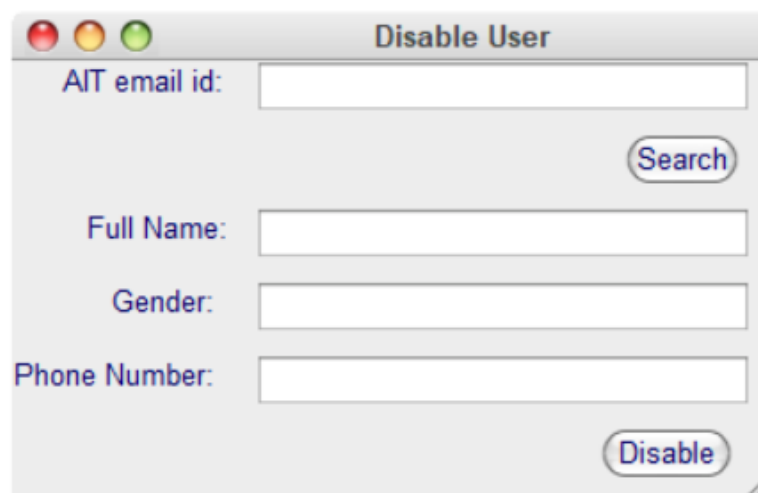
Product description:

Upload Pictures: D: Image Newthing.jpg

Figure 8. Update Product Form

2.6. Update User

Users can update their personal information in their user profile. If some users are not active or violate the platform rules then admin has the ability to disable users from using the system. Admin can also update the users and products added to the platform.



Disable User

AIT email id:

Full Name:

Gender:

Phone Number:

Figure 9. Disable User Form

2.7. Bid on Product.

Every user will be able to see the current bid status like how many users are currently bidding on that product, what amount they are bidding and so on. Logged in users can bid on the active products by clicking on the Bid button. However, if the user is not logged in and clicks the bid button, they will be prompted to login.

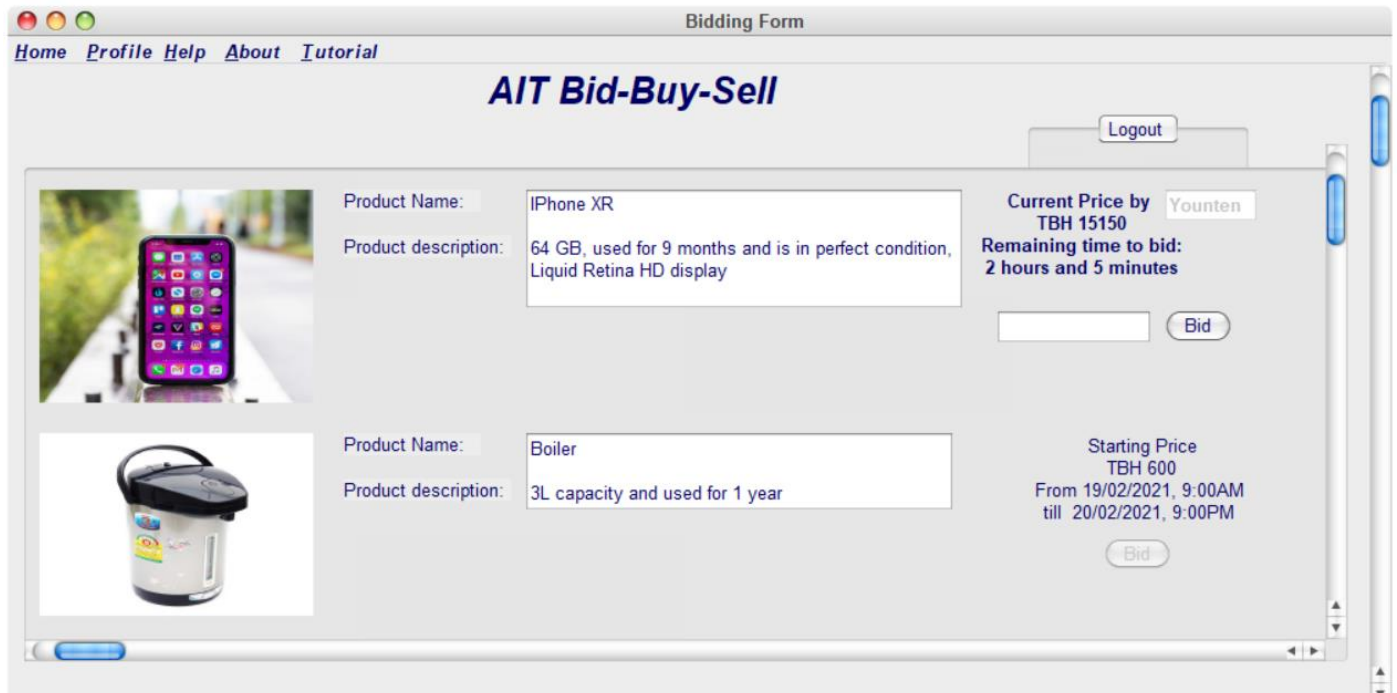


Figure 10. Bidding Form

2.8. View Dashboard

Admin will be able to see the dashboard that shows the bidding status in different products, users involved in bidding processes, how the platform is performing in terms of users and products. Optionally, admin will be able to generate business reports based on this information.

Architectural Challenges of our system:

1. Handling multiple concurrent transactions

There will be many users active on the system and they will be able to bid on the products. But multiple users may place bids on the same product at the same time.

2. Updating the product price in real time for ongoing bidding processes.

If the product is being bid by someone, there will be multiple users who will be on the same page waiting or trying to bid. If one bid is updated, other users must instantly see the updated bid amounts on their systems. This must be nearly real-time.

3. Two methods of Payment: Cash on Delivery and Credit Card Payment

Cash on delivery will be handled by the seller and buyer themselves from their contact details.

For credit card payment, user's credit card details should be highly confidential and should be well-secured and encrypted in the database.