



K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY (AUTONOMOUS), TRICHY.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

20CS5501 DESIGN PROJECT-1

Batch No. : 18

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Online Classified Marketplace

Guided by

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Team

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OBJECTIVE OF THE PROJECT

- Provide a platform where buyers and sellers can connect and conduct transactions efficiently
- Offer an intuitive and user-friendly interface that makes it easy for users to browse, buy, and sell products or services.
- Implement mechanisms to protect both buyers and sellers from fraud and ensure secure payment processes.
- Offer assistance to users for any issues or inquiries they may have during their transactions or interactions on the platform.
- Promote Fair Pricing and Anti-Discrimination

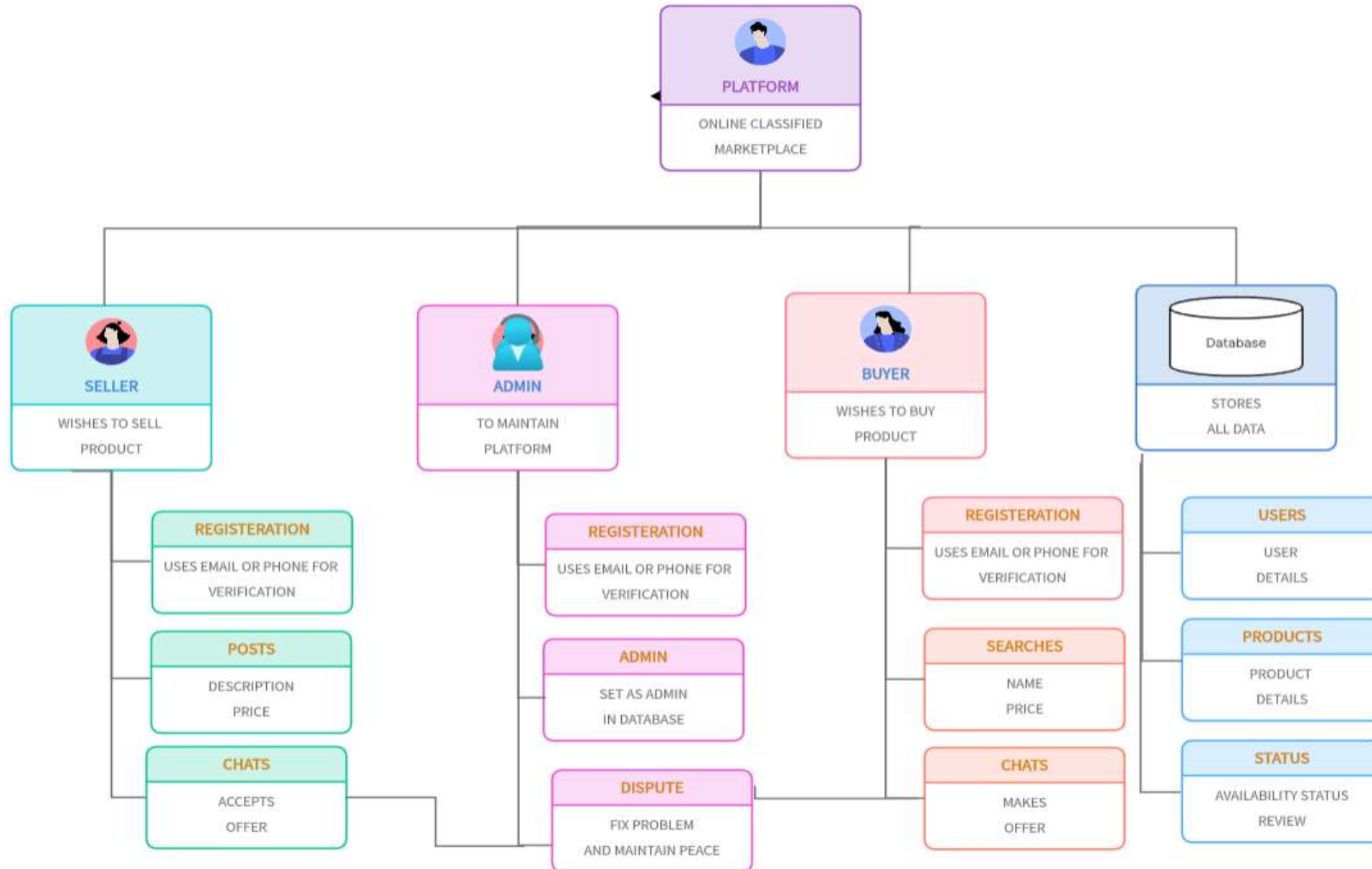
ABSTRACT

- Develop a secure online marketplace for peer-to-peer buying and selling with admin-mediated transactions for added trust.
- Includes user authentication, real-time chat for buyer-seller communication, secure UPI payments, and categorized product searches.
- Enables user feedback, ratings, and reporting for maintaining platform credibility and improving user experience.
- Offers profile updates, feedback submission, contact support, and informational sections like "About Us" and "Rules."
- Focused on a user-friendly interface with seamless navigation and an aesthetically consistent theme.

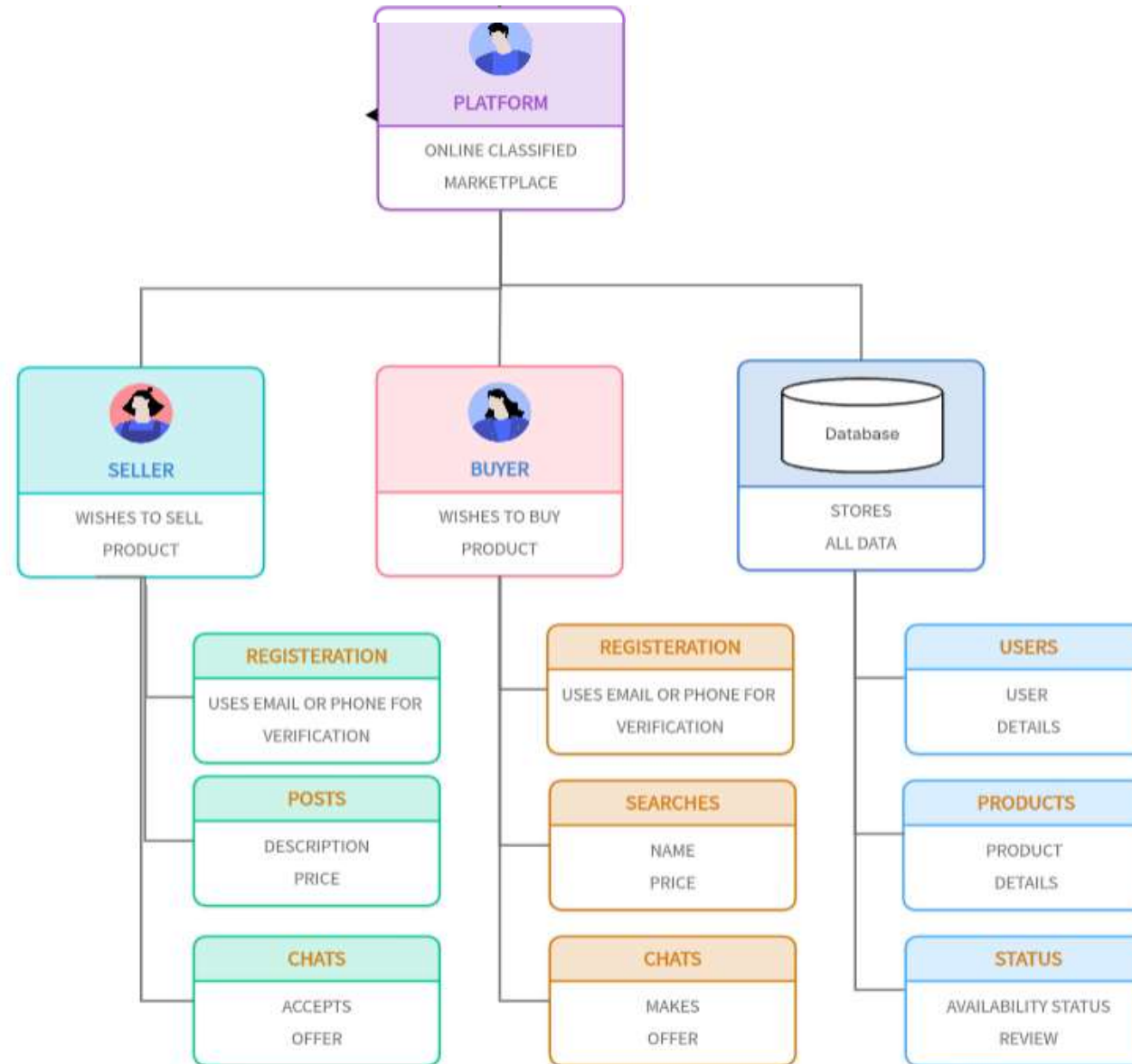
LITERATURE SURVEY

TITLE OF THE PAPER	AUTHOR (S)	PUBLISHER	PAPER GIST	TECHNOLOGY USED
Online Business and Marketplaces	Yun Fong Lim, Kejia Hu	Lee Kong Chian School of Business	Running online businesses, AI, logistics, and strategies.	Cloud Computing Artificial Intelligence
Analysis of Online Marketplace for Local Vendors	Thilak Raja P A, Mohammed M Iqbal, Avinash Raj	International Journal of Creative Research Thoughts(IJCRT)	Online marketplaces boost local vendors' performance bidding.	Data Analytics Web Development
Seller Experience Assessment in Online Marketplace	Amresh Kumar, Pallab Sikdar, Raiswa Saha	Emerald Publishing Limited	Study creates scale to measure seller satisfaction online.	Customer Relationship Management Marketing Tools
Designing Online Marketplaces: Trust and Reputation	Michael Luca	Harvard Business School	Trust reputation ensure online marketplace transactions	Blockchain Review Systems
The Social Infrastructure of Online Marketplaces	Patrik Aspers, Asaf Darr	University of St Gallen, St. Gallen, Switzerland	Study explores Etsy's dynamic social infrastructure in marketplaces	Social Media Integration

PROPOSED SYSTEM ARCHITECTURE



EXISTING SYSTEM ARCHITECTURE



SOFTWARE AND HARDWARE REQUIREMENTS

HARDWARE

- Processor – Intel i3 or Higher
- RAM – 4GB or Higher.
- Storage – 150GB or Higher.

SOFTWARE

- Firebase CLI
- Firebase Hosting
- Firestore
- Realtime Database

MODULES

- Account Management
- Product Uploading & Searching
- Buyer & Seller Interaction
- Safe Transaction
- Review & Complaints

SUMMARY OF MODULE-1

Account Management

- Supports registration via email, phone, and password with Firebase Authentication and email verification and two-step verification prevent fraudulent accounts.
- Users can update profiles with descriptions and profile pictures securely stored in Firebase.
- Manages personal preferences and transaction history, streamlining interactions while ensuring security and usability.

SUMMARY OF MODULE-2

Product Uploading & Searching

- Sellers list items with details like name, description, category, price, and images and supports standard, customer-protected, and auction-style listings.
- Users find items using filters (name, category, price, or keywords) and results are clear and comparable, with icons indicating availability.
- Only authenticated users can post listings, enhancing platform security and usability.
- Users interact with items via a like button, updating counts in real time.

SUMMARY OF MODULE-3

Buyer & Seller Interaction

- Supports Normal Chat for product discussions with synchronized messages, negotiation features, and role-based interfaces.
- Allows buyers to submit offers, with sellers accepting or rejecting them; successful deals update product details and enable reviews.
- Includes buyers, sellers, and admins for secure, role-based interactions, dispute resolution, and deal finalization.
- Chats are tied to specific product pages, displaying relevant details like images and descriptions, ensuring seamless and dynamic updates.

SUMMARY OF MODULE-4

Safe Transaction

- The admin acts as an intermediary, overseeing the process from checkout to completion.
- Transactions are marked "pending" until the admin verifies product dispatch and confirms shipment before marking them “completed”.
- Payments are processed through UPI but finalized only after admin confirmation, ensuring reliability and speed.
- The system safeguards buyers and sellers, ensuring buyers receive products and sellers get paid, fostering platform confidence.

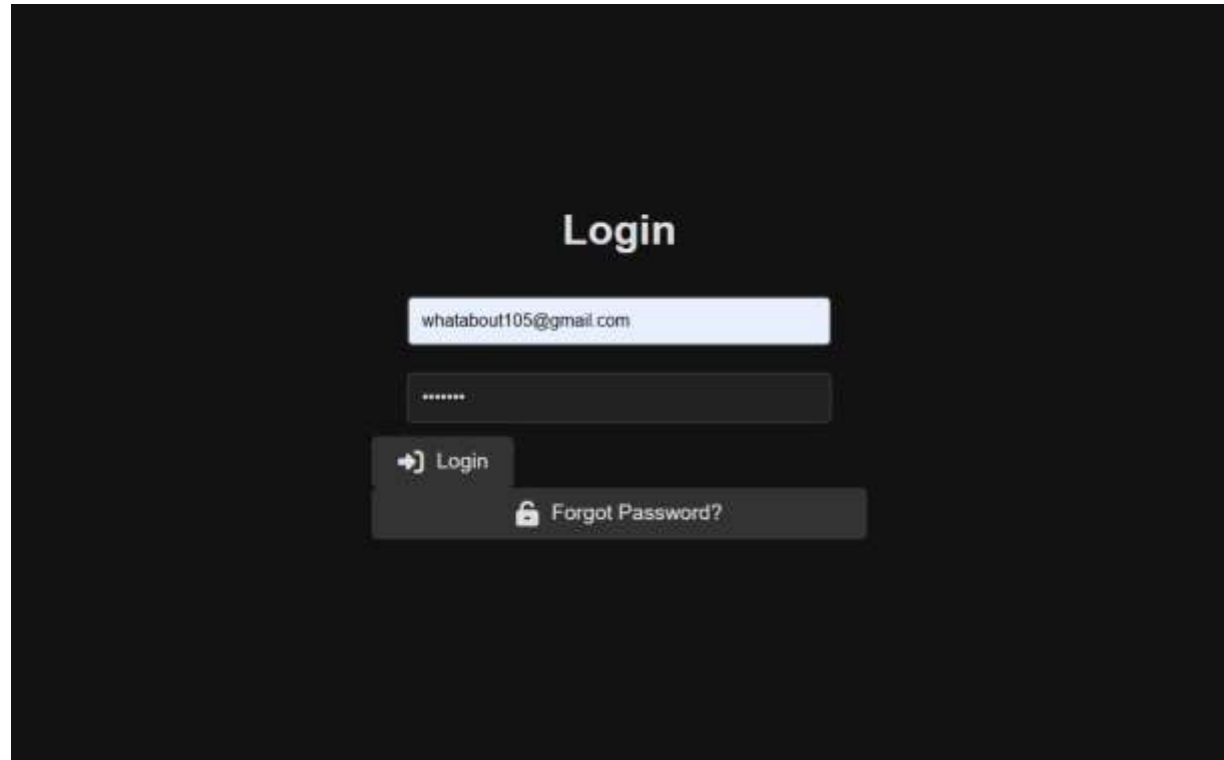
SUMMARY OF MODULE-5

Review & Complaints

- Buyers and sellers leave reviews post-transaction, including product details, user IDs, and ratings to promote transparency and trust.
- Both parties can evaluate each other, fostering accountability and informed decision-making.
- Users can report issues like inappropriate behavior, detailing the individual, reason, and comments, with complaints stored for admin review.
- Admins investigate and resolve complaints to ensure a safe, fair, and respectful platform environment.

RESULTS AND DISCUSSION

Login



A screenshot of a login interface with a dark background. The word "Login" is centered at the top in white. Below it are two input fields: the first contains the email "whatabout105@gmail.com" and the second contains masked characters "*****". At the bottom, there is a "Login" button with a right-pointing arrow icon and a "Forgot Password?" link with a lock icon.

Login

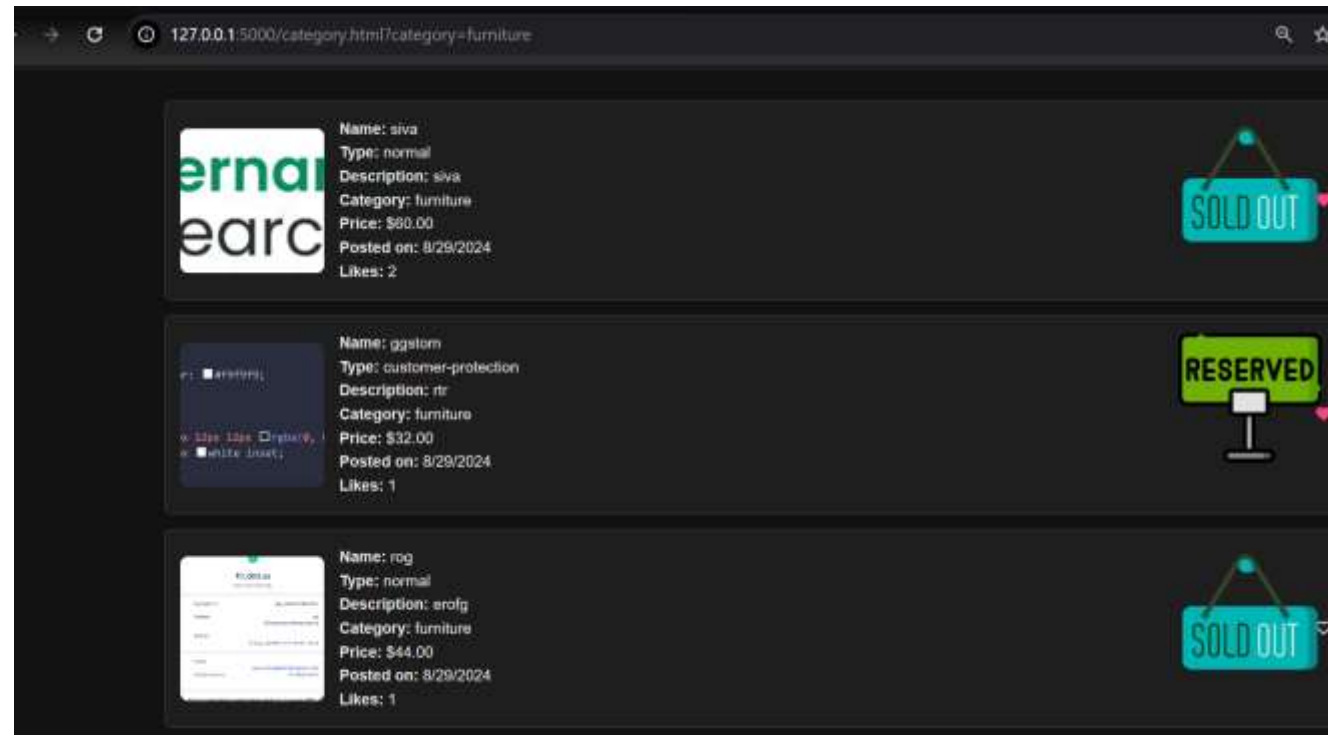
whatabout105@gmail.com

➔ Login

🔒 Forgot Password?

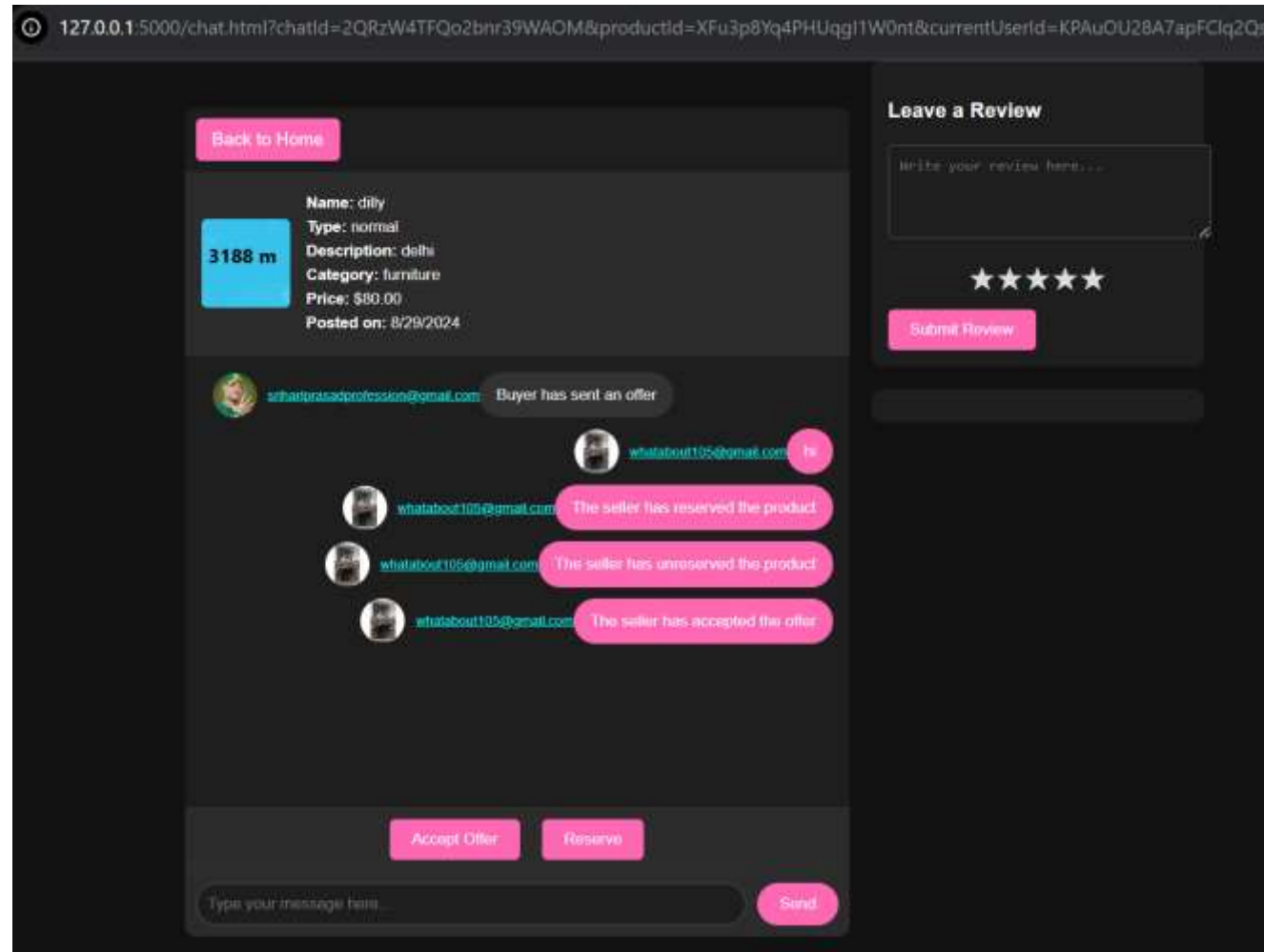
RESULTS AND DISCUSSION

Product Search



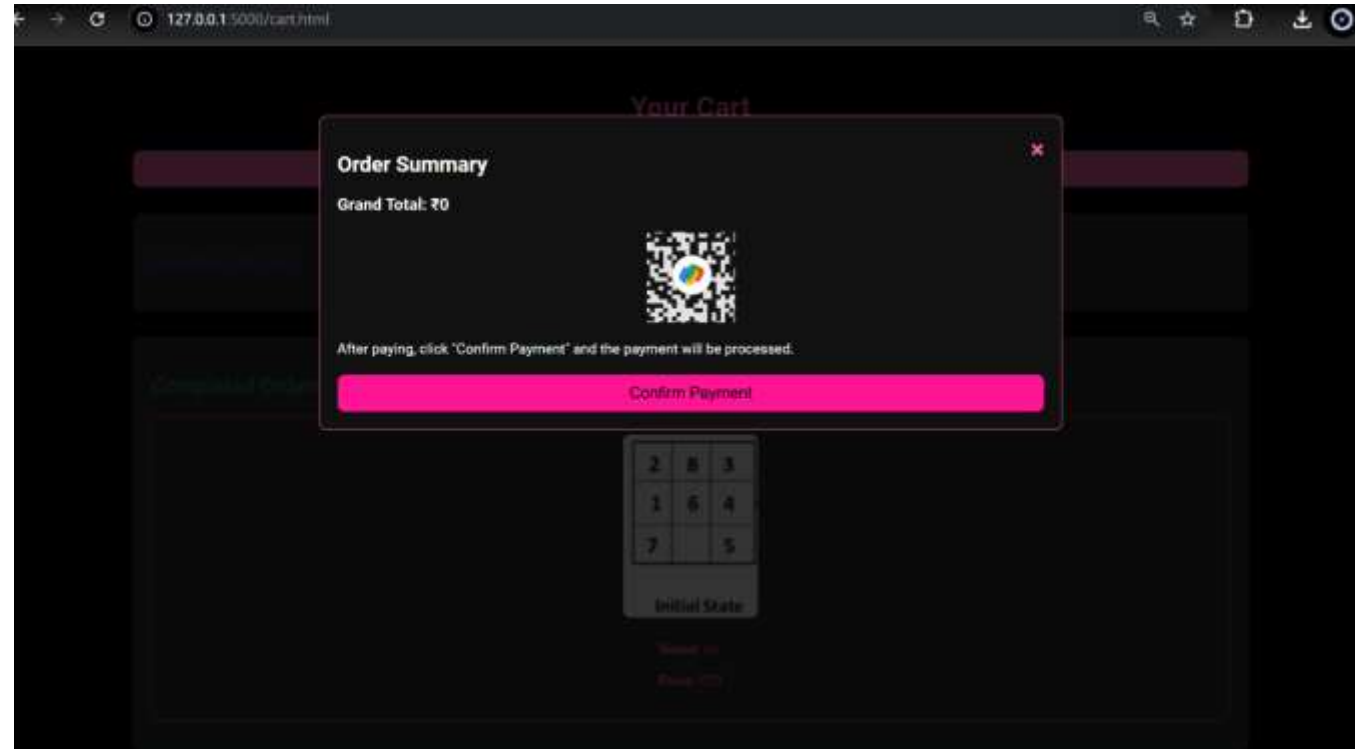
RESULTS AND DISCUSSION

Customer Chat



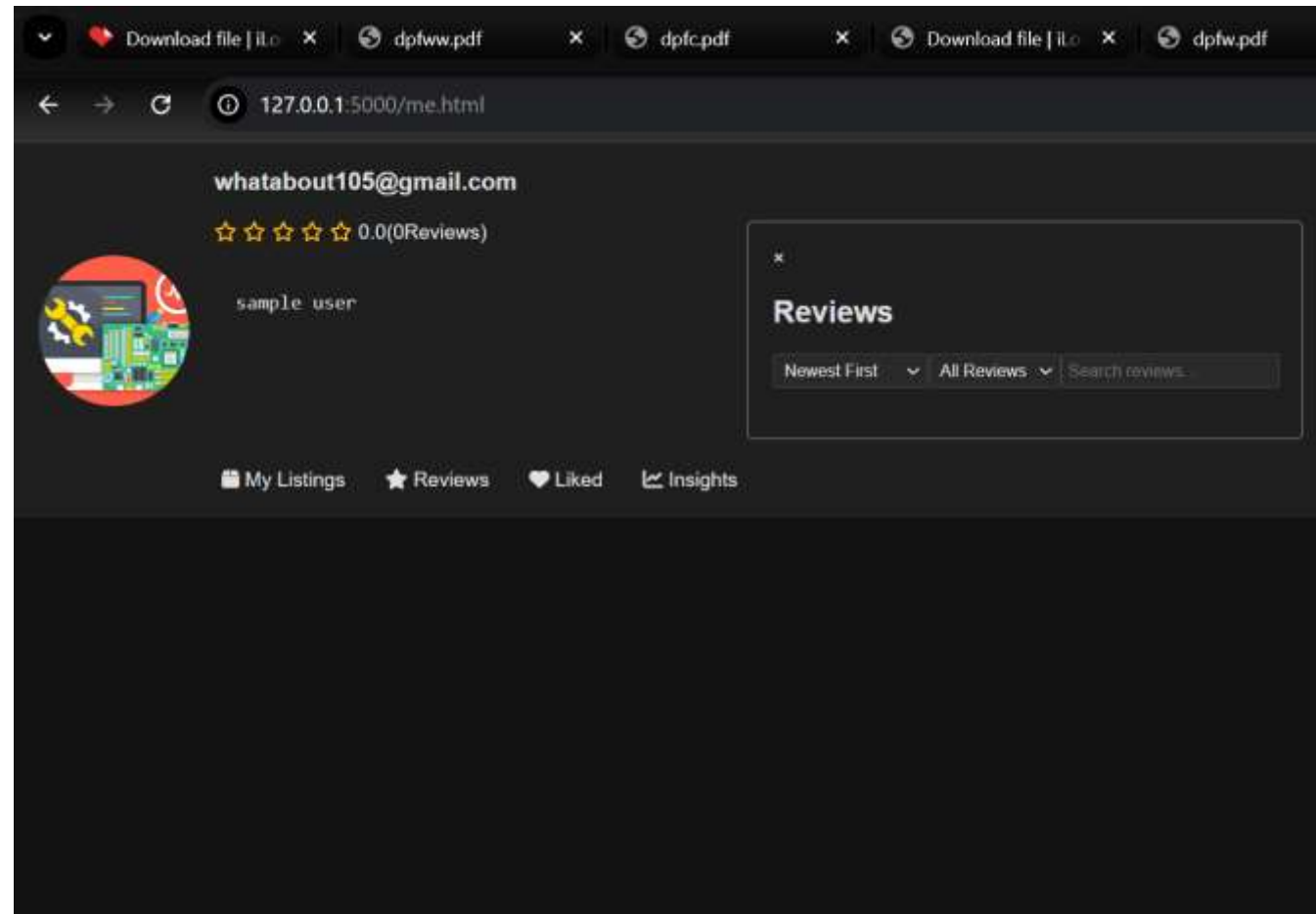
RESULTS AND DISCUSSION

Payment



RESULTS AND DISCUSSION

User Page



CONCLUSION

- Ensures safe buyer-seller interactions via UPI payments and admin-verified processes.
- Enables seamless communication with private, auction, and admin-mediated chat options.
- Offers secure registration, login, and profile updates for a personalized experience.
- Simplifies uploads and provides advanced filters for efficient product discovery.
- Promotes trust with reviews and a system to address user grievances.

THANK YOU