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# Beta Testing Document

for

## Real Estate Broker

Version 1.1

Prepared by

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## Revisions

Version	Primary Author(s)	Description of Version	Date Completed
1.1	Mridul Gupta Rohan Batra Apoorv Tandon Krutuparna Paranjape Ayush Ritesh Hans Tanishq Maheshwari Taneshq Zende Samarpan Verma Mrdul	First version of beta testing document.	14/04/2024

# 1 Introduction

*The website acts as a digital platform that helps people to buy and sell properties more easily. It connects property owners with buyers, making the process smoother and lets property buyers as well as sellers access a wide market.*

*The website has following functionalities:*

- 1. A property owner can list his/her property on the platform for selling.*
- 2. A user can add funds to his account in order to place bids and when a property is sold, the funds are transferred from the buyer's account to the seller's account.*
- 3. A property buyer can view the various properties up for sale, view its ongoing market price and place bids if he wishes to buy a particular property.*
- 4. Bidding - People can place Market Order and Limit Order bids in order to buy properties*
- 5. Market-Orders are placed at the Last-Traded-Price whereas Limit-Orders are placed at prices at the choice of the user.*
- 6. Whenever buy and sell bids match, a property deal is automatically executed and the property is transferred from the seller's portfolio to the buyer's portfolio.*
- 7. All users can maintain a watchlist whereby they can add their properties of interest and monitor their last traded price.*

Overall, the web-app acts as a seamless mediation platform to list properties, monitor ongoing property prices, place bids for properties to buy/sell them.

## 2 List of Reported Bugs

**BUG 1:** incorrect display of in the 'Confirm-Bid' pop-up message

**Tested Feature:** Sell Bid

**Tester Name:** Krutuparna Parajape

**Testing Date:** 7/04/2024

**Bug Details:**

- When a market-order buy/sell order is placed, a "Confirm Bid" pop-up shows with the message : "Are you sure you want to submit a bid of Rs X?" Here X shows up as the LTP whereas the order is placed at top-sell bid(for buy order) and top-buy-bid(for sell order)

**Bug Report Date:** 7/04/2024

**Has the bug been fixed?** YES

**Date of Bug fixing:** 8/04/2024

**Any other comment (for example, how satisfied are you with the bug fixing):**

Satisfied with bug fixing

**BUG 2:** Login Page Redirection

**Tested Feature:** User Experience

**Tester Name:** Krutuparna Parajape

**Testing Date:** 7/04/2024

**Bug Details:**

- Even when a user is logged in, going to the link : "<http://localhost:5173/>" enables a user to login again without the previous user logging-out first. This can let multiple users to be logged in within the same browser.

**Bug Report Date:** 7/04/2024

**Has the bug been fixed?** NO

**Date of Bug fixing:**

**Any other comment (for example, how satisfied are you with the bug fixing):**

Bug has been declared as invalid, however, it is a bug as multiple users can't be logged-in with the same session. This will create confusion for the users.

(The development team has not hosted the web-app hence they need multiple users to be logged in locally at the same url which is not practical.)

**BUG 3:** Spelling Mistake in the Backend UI

**Tested Feature:** User Experience

**Tester Name:** Krutuparna Parajape

**Testing Date:** 7/04/2024

**Bug Details:**

- The word 'Properties' has been incorrectly spelled as 'Propertys' in the Backend UI.

**Bug Report Date:** 7/04/2024

**Has the bug been fixed?** NO

**Date of Bug fixing:**

**Any other comment (for example, how satisfied are you with the bug fixing):**

Bug has been declared as invalid, saying that the suffix "s" gets added to all models by default in Django's admin UI. However this is not acceptable to the users who will be using the platform.

*BUG 4:* Automatic Logout

*Tested Feature:* User Experience

*Tester Name:* Mridul Gupta

*Testing Date:* 7/04/2024

*Bug Details:*

- When a user is logged in, refreshing a page or opening a link in new tab logout out the user.

*Bug Report Date:* 7/04/2024

*Has the bug been fixed?* NO

*Date of Bug fixing:*

*Any other comment (for example, how satisfied are you with the bug fixing):*



*BUG 5:* User Registration

*Tested Feature:* User Management

*Tester Name:* Mridul Gupta

*Testing Date:* 7/04/2024

*Bug Details:*

- Multiple users of the same PAN-Number and Phone Number can be registered.

*Bug Report Date:* 7/04/2024

*Has the bug been fixed?* YES

*Date of Bug fixing:* 08/04.2024

*Any other comment (for example, how satisfied are you with the bug fixing):*

*BUG 6:* Sell bids showing even after property is sold

*Tested Feature:* Sell Bids

*Tester Name:* Mridul Gupta

*Testing Date:* 7/04/2024

*Bug Details:*

- If a user places multiple sell bids, when the property is sold, only one of these bids clears and the rest of the bids placed by this user still persist.

*Bug Report Date:* 7/04/2024

*Has the bug been fixed?* YES

*Date of Bug fixing:* 12/04/2024

*Any other comment (for example, how satisfied are you with the bug fixing):*

**BUG 7:**

**Tested Feature:** Sell Bids

**Tester Name:** Mridul Gupta

**Testing Date:** 7/04/2024

**Bug Details:**

- After a user sells his property, if he places a Market Order Buy he is not able to buy it back, the message : "You can't buy your own property" is received but the user is able to place Limit Order Buy..

**Bug Report Date:** 7/04/2024

**Has the bug been fixed?** YES

**Date of Bug fixing:** 12/04/2024

**Any other comment (for example, how satisfied are you with the bug fixing):**

**BUG 8:**

**Tested Feature:** Sell Bids

**Tester Name:** Mridul Gupta

**Testing Date:** 7/04/2024

**Bug Details:**

- After a user sells his property, if he places a Market Order Buy he is not able to buy it back, the message : "You can't buy your own property" is received but the user is able to place Limit Order Buy..

**Bug Report Date:** 7/04/2024

**Has the bug been fixed?** No

**Date of Bug fixing:**

**Any other comment (for example, how satisfied are you with the bug fixing):**

The bug was marked as duplicate, but the issue is different than the one we previously reported.

**BUG 9:**

**Tested Feature:** Sell Bids

**Tester Name:** Rohan Batra

**Testing Date:** 7/04/2024

**Bug Details:**

- The Top Sell Bids column has bids sorted in Ascending Order instead of latest bids. The seller may want to change the base price of his bid due to market price changes, but if he placed a higher bid, then the order will always be executed at the lowest bid, instead of the recent one.

**Bug Report Date:** 7/04/2024

**Has the bug been fixed?** No

**Date of Bug fixing:**

**Any other comment (for example, how satisfied are you with the bug fixing):**

The developer has marked this as intended behaviour, but it is not practical and misleading. Why is the seller able to bid for a higher price if always the lowest bid is to be executed.

**BUG 10:**

**Tested Feature:** Property Addition in database

**Tester Name:** Mridul Gupta

**Testing Date:** 7/04/2024

**Bug Details:**

- When a property is added in the database, the last traded price column accepts negative values, which is not ideal.

**Bug Report Date:** 7/04/2024

**Has the bug been fixed? :** No

**Date of Bug fixing:**

**Any other comment (for example, how satisfied are you with the bug fixing):**

*BUG 11:*

*Tested Feature:* FAQ Section

*Tester Name:* Krutuparna Parajape

*Testing Date:* 7/04/2024

*Bug Details:*

- The features listed in the faq section have not been implemented. This can confuse first time users of the app.

*Bug Report Date:* 7/04/2024

*Has the bug been fixed?* No

*Date of Bug fixing:*

*Any other comment (for example, how satisfied are you with the bug fixing):*

### 3 Overall Quality of the Software

Though installing the software is a tedious process due to not hosting the application, but once logged-in, the software is easy and smooth to use, intuitive to operate and all the functional requirements are working.

*1. How good is the user manual? Was it easy to install and run the software?*

Our team encountered difficulties in installing and running the software due to the absence of hosting by the development team, coupled with unclear installation instructions. The Readme file could have been more clear and one of the command line instructions had incorrect syntax in the Readme file.

However, the user manual is comprehensive and visually instructive. Its comprehensive nature ensures that all aspects are covered in detail, while its visual illustrations effectively enhance understanding and facilitate step-by-step instructions.

*2. How is the quality of the code? Is it well documented? Is the code modular? Are the variables and the function names meaningful?*

The code is well structured, properly documented, organized neatly in the repo and has a modular composition.

Code has been commented appropriately, indentation has been used appropriately wherever required and readability of the code is good.

*3. Do you think that the software lacks some major features that may make it less acceptable to the user?*

Some of the features that may make the software less acceptable :

1. There is no option for "Forgot Password ". This can be inconvenient for users.
2. There is no "OTP Authentication" which can pose security concerns and may cause lack of trust among users as email is not authenticated.
3. The software lacks a notification system, as a seller is not informed if his property gets sold. He needs to constantly check the platform for this.



#### 4. Does the software not satisfy any major non-functional requirements?

The non-functional requirements listed in the SRS document have not been implemented :

1. **Personal information** such as email addresses and PAN card details must be stored securely. Use HTTPS to encrypt data during transmission between the client and the server.
2. **Login Security:** Users must authenticate using a valid email address and password. Passwords must be securely stored using standard encryption techniques. Failed login attempts should be limited to 3 within a 5-minute period to prevent brute force attacks.
3. **Cookie-based authentication:** Implement cookie-based session management to ensure that user sessions expire after a reasonable period of inactivity, but not expire after refreshing, or after logging in.
4. **Secure Payment Processing:** To Ensure secure handling of payment information during transactions. For this integration with reputable payment gateways and encryption of payment is required.
5. **Role-Based Access:** Buyers/Sellers and admin should have distinct roles with specific permissions.



## Appendix A - Group Log

### **Team Meet#1: 02/04/24:**

Had an all team meet to set up environment for beta testing Group 14's software.  
Distributed the work amongst team members.

### **Team Meet#2: 05/04/24:**

Discussed bugs found so far, tried resolving setup issue with Mac users(unsuccesfully).  
Made a first draft of the Beta Testing Document.

### **Team Meet#3: 09/04/24:**

Discussed non functional aspects of the code: readability, modularity, scalability and latency. Discussed the additional bugs found.

### **Team Meet#4: 13/04/24:**

Discussed final bugs to be included, and drafted Section 1 and 3 of the document.  
Distributed work related to typing and formatting documents.

### **Google Meet with TA, 14/04/24:**

Advised us on the quality and quantity of bugs pointed out by the team and areas we can modify/improve these.

Also informed us of the logistics and details of our upcoming project presentation.

Told us about the important aspects of the beta testing document that it will be evaluated upon.