Beta Testing Document

for

DealSimplified

Version 1.00

Prepared by

Group 15

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Course: CS253
Mentor TA: Naman Baranwal
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REVISIONS

Version	Primary Author(s)	Description of Version	Date Completed
v 1.00	Anisha Srivastava Dilbar Singh Lamba Pranshu Thirani Sameer Yadav Sangam Gupta Aruz Awasthi Anirudh Aadi Singh Aadya Dhir Anish Sahu	First version of the required beta testing document.	20/04/2025

1 Introduction

1.1 Project Overview

DealSimplified is a modern, user-friendly web platform built to digitize two essential services, lost & found and a marketplace for the users. It is developed by Group Kasukabe Defence Group for the course CS253.

1. **Lost & Found:** Allows users to report missing items, browse found-item listings, and reconnect valuables with their rightful owners—eliminating the tedium of manual searches and boosting recovery rates.
2. **Marketplace:** Provides a secure, organized space for users to buy and sell goods, streamlining transactions and ensuring transparency from listing through payment.

By unifying these functions under one intuitive interface, DealSimplified minimizes confusion, cuts down on inefficiencies, and delivers a trusted environment where users can both reclaim lost possessions and engage in safe, structured exchanges.

1.2 Purpose of Development

The beta testing phase is designed to validate that DealSimplified meets its goals of efficiency, clarity, and reliability before public launch. In particular, we will:

1. **Verify Core Workflows:**
   Confirm that reporting, searching, and matching items in Lost & Found, and listing, browsing, and transacting in the Marketplace operate without errors.

2. **Uncover Usability Gaps:**
   Identify any points of user confusion in navigation, terminology, or guidance so that in-app prompts and the final user manual can be refined.

3. **Detect Functional Bugs:**
   Surface defects in form validation, data handling, notification delivery, and any edge-case behaviors under realistic usage scenarios.

4. **Assess Performance & Compatibility:**
   Measure page-load times, responsiveness, and stability across supported browsers (e.g. Chrome, Edge) on 64-bit operating systems.

5. **Gather Actionable Feedback:**
   Collect tester insights on feature usefulness, overall satisfaction, and suggestions for enhancements to inform final polish and prioritization.

2 List of Reported Bugs

BUG 1

Tested Feature: Image Upload System

Tester Name: Aadya Dhir, Aadi Singh

Testing Date: 13 April,2025

Bug Details: The marketplace's image upload system has a minor flaw in its functionality. There are three options provided for uploading images, but the system is incorrectly dependent on the "delete" option of the unused upload methods. Images only display when users select the delete option on the unused upload methods, which is not the intended behavior. This creates a confusing and unreliable user experience, as users would not typically expect to interact with unused upload options to successfully display their uploaded images.

Bug Report Date: 13 April, 2025

Has the bug been fixed? :- Yes

Date of Bug fixing: 14 April, 2025

Any other comment (for example, how satisfied are you with the bug fixing): The fix completely revamped the image handling system with proper validation, error messages, and preview functionality.

BUG 2

Tested Feature: Cart Functionality

Tester Name: Anish Sahu, Aruz Awasthi

Testing Date: 13 April, 2025

Bug Details: The shopping cart system exhibits a few failures, including incorrect calculations and lack of "ADD TO CART" functionality in My Wishlist section.

Bug Report Date: 13 April, 2025

Has the bug been fixed? : Yes

Date of Bug fixing: 14 April, 2025

Any other comment (for example, how satisfied are you with the bug fixing): The cart system was completely overhauled, fixing not only the reported issues but also improving the overall performance and adding features like saving cart items for later and cart recovery for logged-in users.
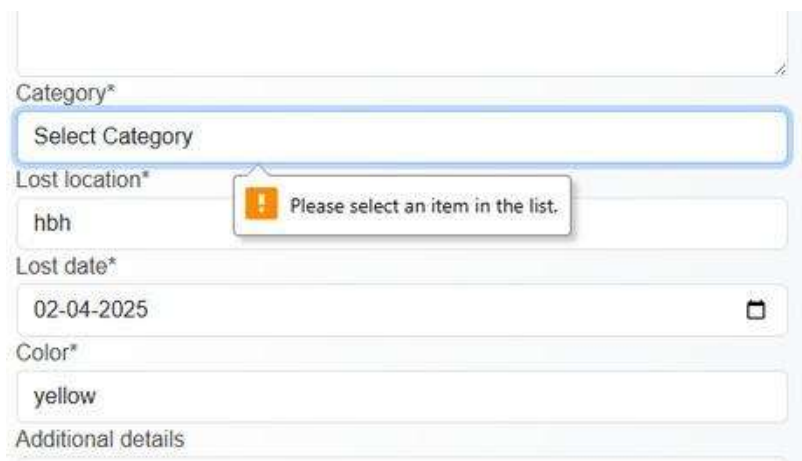
BUG 3

Tested Feature: Lost & Found Item Reporting Form

Tester Name: Anirudh, Anisha Srivastava

Testing Date: 13 April, 2025

Bug Details: I am unable to report a lost item because the category dropdown in the form is either empty or missing the first category. Since this field is marked as required (*), I am unable to proceed with reporting the lost item.

Bug Report Date: 13 April, 2025

Has the bug been fixed? : Yes

Date of Bug fixing: 14 April, 2025

Any other comment (for example, how satisfied are you with the bug fixing): The fix was comprehensive, adding not only the missing categories but also improving the category organization with subcategories, which enhances the user experience.

BUG 4

Tested Feature: Claimed Items History

Tester Name: Sameer Yadav, Sangam Gupta

Testing Date: 12 April, 2025

Bug Details: There is no proper history listing of claimed items, making it difficult for users to track their activities.

Bug Report Date: 13 April,2025

Has the bug been fixed? : Yes

Date of Bug fixing: 14 April,2025

Any other comment (for example, how satisfied are you with the bug fixing): The fix not only added the missing claimed items section but also included helpful filtering options by date and category, which improved usability beyond the original requirement

BUG 5

Tested Feature: Chat Messaging System

Tester Name: Anirudh, Anisha Srivastava

Testing Date: 13 April 2025

Bug Details: When users send messages in the chat system, duplicate messages appear in the conversation. This occurs randomly but consistently, causing confusion in conversations between buyers and sellers.

Bug Report Date: 13 April 2025

Has the bug been fixed?: Yes

Date of Bug Fixing: 14 April 2025

Any other comment (for example, how satisfied are you with the bug fixing): The fix made the chat messaging system simpler and efficient without creating any confusion due to duplicate messages.

BUG 6

Tested Feature: Wishlist Template

Tester Name: Pranshu Thirani, Dilbar Singh Lamba

Testing Date: 13 April, 2025

Bug Details: When accessing the Wishlist page, users encounter a "NoReverseMatch" error that prevents them from viewing their saved items. This occurs because of an incorrect URL pattern reference in the template. The server error log shows that the template is trying to reverse a URL pattern named 'item_detail' but passing incorrect parameters, causing the URL resolution to fail.

NoReverseMatch at /marketplace/wishlist/

Reverse for 'product_list' not found. 'product_list' is not a valid view function or pattern name.

```
Request Method:  GET
    Request URL:  http://127.0.0.1:8000/marketplace/wishlist/
 Django Version:  5.2
 Exception Type:  NoReverseMatch
Exception Value:  Reverse for 'product_list' not found. 'product_list' is not a valid view function or pattern name.
Exception Location:  H:\dataviz\CS253-project\DealSimplified\venv\Lib\site-packages\django\urls\resolvers.py, line 831, in _reverse_with_prefix
   Raised during:  marketplace.views.my_wishlist
Python Executable:  H:\dataviz\CS253-project\DealSimplified\venv\Scripts\python.exe
 Python Version:  3.12.4
```

Bug Report Date: 13 April, 2025

Has the bug been fixed? : Yes

Date of Bug fixing: 14 April, 2025

Any other comment (for example, how satisfied are you with the bug fixing): The fix properly resolved the URL pattern issue, and the wishlist now displays correctly. Navigation between the wishlist and item details is now seamless.

BUG 7

Tested Feature: Marketplace Item Creation

Tester Name: Aadya Dhir, Aadi Singh

Testing Date: 10 April, 2025

Bug Details: The marketplace item creation form allows users to enter negative prices for items, which creates logical errors in the system and confuses users. The validation is missing for the price field, allowing invalid values to be submitted. This could potentially be exploited to create items with negative prices, which caused calculation errors in the cart system and order processing.

Bug Report Date: 13 April, 2025

Has the bug been fixed?: Yes

Date of Bug fixing: 14 April,2025

Any other comment (for example, how satisfied are you with the bug fixing): The fix implemented proper validation that prevents negative values and displays a clear error message to users. The solution is effective and maintains a good user experience. During follow-up testing, all attempts to enter negative values were successfully blocked at various levels, demonstrating a robust defense-in-depth approach.

3 Overall Quality of the Software

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

The user manual is well-structured, with clear instructions and screenshots for installation, setup, and key features for buyers, sellers, and lost item reporters. It includes troubleshooting and FAQs based on beta tester queries. However, the developer installation guide could use more detail on database configuration and data seeding. The search functionality and index need improvement for better navigation.

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

The codebase follows Django and React best practices, with clear variable names, good modularity, and effective design patterns. However, documentation is inconsistent, especially for newer features. Some complex functions need more comments, test coverage is lacking for newer features, code duplication exists in form handling, and error handling is inconsistent.

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

The application provides a strong foundation for campus marketplace and lost & found features. Key strengths include robust marketplace functionality, intuitive lost & found system, effective chat, and profile tracking.

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

The application performs well in terms of performance, security, reliability, and compatibility. However, it needs improvements in scalability (load testing with 1000+ users), accessibility (full WCAG 2.1 compliance), internationalization (support for multiple languages), offline functionality, and privacy controls (granular settings).

Overall Satisfaction:

Overall satisfaction with the software is high after bug fixes. The application provides a valuable service for campus communities with a generally positive user experience. The responsive development team and their ability to quickly address issues demonstrates a commitment to quality. While there are areas for improvement in both features and non-functional requirements, the application in its current state is ready for initial deployment with a plan to address the identified gaps in future releases.

Appendix A: Group Log

During beta testing, we maintained constant communication via our WhatsApp group to coordinate efforts and address issues promptly.

Meeting Time	Agendas
9 April 2025 (19:00 - 20:00 IST)	Setup the software in the system
11 March 2025 (19:00 - 22:00 IST)	Testing of Functionalities
13 April 2025 (18:30 - 20:00 IST)	Testing of Error handling
16 April 2025 (20:00-23:00 IST)	Testing after group 14 has debug the code
18 April 2025 (18:00 - 19:30 IST)	Start writing beta testing
20 April 2025 (15:00 - 18:00 IST)	Finalize beta testing document