

REAL ESTATE LISTING WEBSITE – BLACKBOX TESTING DOCUMENT

1. Introduction

What is Black Box Testing?

Black box testing only cares about the Product's final output. It doesn't depend on how the inside code works.

We apply this testing to the overall Website.

We also apply **Equivalence Class Partitioning (ECP)** to reduce test cases by dividing inputs into:

- Valid classes
- Invalid classes
- Boundary classes

Each class is represented by at least one test case.

2. Login Module (Buyer/Renter, Lister, Admin)

2.1 Equivalence Class IDs

ECID	Description
EC001	Valid registered email
EC002	Valid password
EC003	Invalid email format
EC004	Email not registered
EC005	Wrong password
EC006	Empty email
EC007	Empty password
EC008	Blocked/suspended user
EC009	Valid admin account

2.2 Test Cases

TC ID	Scenario	Description	Test Data	Expected Result	Acceptance Criteria	ECID
TC-LG-001	Successful login	Buyer enters valid credentials	buyer@example.com / Buyer@123	Redirect to dashboard	Login successful	EC001, EC002
TC-LG-002	Invalid email format	Email missing '@'	abc123 / Buyer@123	Error shown	Invalid email blocked	EC003
TC-LG-003	Unregistered email	Email not in DB	newuser@example.com / Test@123	"Account not found"	No login	EC004
TC-LG-004	Wrong password	Correct email, wrong pass	buyer@example.com / Wrong@123	"Incorrect password"	No login	EC005
TC-LG-005	Empty email	Email blank	"" / Buyer@123	"Email required"	Validation error	EC006

TC-LG-006	Empty password	Password blank / ""	buyer@example.com	"Password required"	Validation error	EC007
TC-LG-007	Blocked user login	Blocked account	fraud@example.com / Fraud@123	"Account suspended"	Blocked users denied	EC008
TC-LG-008	Admin login	Valid admin credentials	admin@site.com / Admin@123	Redirect to admin panel	Only admins access admin panel	EC009

3. Registration & Proof Upload

3.1 Equivalence Class IDs

ECID	Description
EC101	Valid name
EC102	Valid email format & unique
EC103	Valid password
EC104	Email already registered
EC105	Invalid email format
EC106	Weak password
EC107	Required field empty
EC108	Valid ID proof file
EC109	Invalid ID file type
EC110	Oversized document
EC111	ID proof missing

3.2 Test Cases

TC ID	Scenario	Description	Test Data	Expected Result	Acceptance Criteria	ECID
TC-REG-001	Successful buyer registration	All valid fields	buyer@example.com, Buyer@123, aadhar.pdf	Account created	Saved & pending verification	EC101,102,103, 108
TC-REG-002	Email already used	Duplicate email	buyer@example.com	"Email already in use"	Prevent duplicate registration	EC104
TC-REG-003	Invalid email	Wrong format	abc123	"Invalid email"	Email validated	EC105
TC-REG-004	Weak password	Too short/simple	12345	"Weak password"	Enforce policy	EC106
TC-REG-005	Missing field	Blank field	name=""	"Required field"	Mandatory fields enforced	EC107
TC-REG-006	Lister registration	With business docs	license.jpg	Lister created	Pending verification	EC108
TC-REG-007	Invalid ID file	Upload .txt	id.txt	"Invalid file format"	Reject unsupported formats	EC109
TC-REG-008	Oversize file	>5MB	12MB pdf	"File too large"	Reject oversized	EC110
TC-REG-009	Missing ID	No upload	none	"ID required"	Mandatory for lister	EC111

4. Property Search & Filtering

4.1 Equivalence Class IDs

ECID	Description
EC201	Valid search returning results
EC202	Valid search returning zero results
EC203	Invalid filter value
EC204	Empty search
EC205	Large dataset (pagination)
EC206	Combined valid filters

4.2 Test Cases

TC ID	Scenario	Description	Input	Expected Result	Acceptance Criteria	ECID
TC-SRC H-001	Location search	Search “Ahmedabad”	Ahmedabad	Show relevant properties	Accurate results	EC201
TC-SRC H-002	Price range	Valid min/max	20k–40k	Filtered list	Correct price filtering	EC201, EC206
TC-SRC H-003	Zero results	Rare location	SmallTown	“No properties found”	Graceful handling	EC202
TC-SRC H-004	Invalid input	Negative price	-5000	Error	Validate numeric fields	EC203

TC-SRC H-005	Default search	No filters	None	Show all listings	Default listing visible	EC204
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TC-SRC H-006	Pagination	City with many listings	Mumbai	Paginated result	Smooth pagination	EC205
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5. Saved Properties & Comparison

5.1 Equivalence Class IDs

ECID	Description
EC301	Valid save property
EC302	Save attempt without login
EC303	Remove saved property
EC304	Compare 2–4 properties
EC305	Compare <2 properties
EC306	Compare deleted/hidden listing

5.2 Test Cases

TC ID	Scenario	Description	Input	Expected Result	Acceptance Criteria	ECID
TC-SV -001	Save property	Buyer saves	ID 501	Property saved	Appears in list	EC301
TC-SV -002	Save without login	Visitor saves	ID 501	Redirect to login	Cannot save	EC302

TC-SV -003	Remove saved	Buyer unsaves	ID 501	Removed	Saved list updated	EC30 3
TC-CM P-001	Compare valid	Select 3 properties	501,502,503	Comparison table shown	2–4 allowed	EC30 4
TC-CM P-002	Compare 1 item	Only 1 selected	501	“Select at least 2”	Validation shown	EC30 5
TC-CM P-003	Compare invalid listing	One deleted	501,700(delete d)	Error or skip	System handles it	EC30 6

6. Property Listing Management (Lister)

6.1 Equivalence Class IDs

ECID	Description
EC401	Valid listing input
EC402	Missing mandatory field
EC403	Invalid numeric value
EC404	Valid images
EC405	Invalid image
EC406	Valid update
EC407	Delete listing
EC408	Hide listing
EC409	Invalid property ID
EC410	Unauthorized listing modification

6.2 Test Cases

TC ID	Scenario	Description	Input	Expected	Acceptance Criteria	ECID
TC-L ST-0 01	Add listing	All valid data	Title, price, area, jpg image	Listing created	Appears in dashboard	EC401, EC404
TC-L ST-0 02	Missing field	No price	price=""	Error shown	Mandatory fields enforced	EC402
TC-L ST-0 03	Invalid values	Negative area	area=-500	Error shown	Validation enforced	EC403
TC-L ST-0 04	Invalid image	exe or 20MB	bad.exe	Rejected	Accept only valid formats	EC405
TC-L ST-0 05	Update listing	Edit price	ID 600	Changes saved	Listing updated	EC406
TC-L ST-0 06	Delete listing	Remove property	ID 600	Deleted	Not shown publicly	EC407
TC-L ST-0 06	Hide listing	Change status	ID 601	Hidden	Should not appear in search	EC408
TC-L ST-0 08	Invalid ID	Non-existent ID	9999	"Not found"	Graceful handling	EC409
TC-L ST-0 09	Unauthorized modification	Lister A edits B's property	Property not owned	"Unauthorized"	Prevent access	EC410

7. Visit Requests & Scheduling

7.1 Equivalence Class IDs

ECID	Description
EC501	Valid visit request
EC502	Request without login
EC503	Request for inactive property
EC504	Valid future time slot
EC505	Past date
EC506	Accept request
EC507	Reject request
EC508	Request already processed

7.2 Test Cases

TC ID	Scenario	Description	Input	Expected Result	Acceptance Criteria	ECID
TC-VI S-001	Create request	Valid buyer	ID 700, date future	Request created	Status: Pending	EC501, EC504
TC-VI S-002	Without login	Visitor clicking "Request Visit"	Not logged in	Redirect to login	No request created	EC502
TC-VI S-003	Past date	Buyer selects past date	Yesterday	Error	Date validated	EC505
TC-VI S-004	Inactive property	Hidden listing	ID 601	Error	Cannot request visit	EC503
TC-VI S-005	Accept request	Lister accepts	Request 900	Status Accepted	Correct status	EC506

TC-VI S-006	Reject request	Lister rejects	Request 901	Status Rejected	Must store reason	EC507
TC-VI S-007	Already processed	Accepting again	Request already Accepted	Error	Prevent duplicate actions	EC508

8. Admin Verification & Fraud Detection

8.1 Equivalence Class IDs

ECID	Description
EC601	Valid lister verification
EC602	Invalid/incomplete docs
EC603	User suspension
EC604	User not found
EC605	Fraudulent listing flagged
EC606	False fraud flag cleared
EC607	Announcement broadcast
EC608	Unauthorized admin access

8.2 Test Cases

TC ID	Scenario	Description	Input	Expected Result	Acceptance Criteria	ECID
TC-AD M-001	Approve lister	Valid docs	Lister 300	Verified	Properties visible	EC60 1

TC-AD M-002	Reject lister	Missing docs	Lister 301	Rejected	Reason stored	EC60 2
TC-AD M-003	Suspend user	Fraud user	User 400	Suspended	Login disabled	EC60 3
TC-AD M-004	Suspend invalid user	Incorrect ID	User 9999	"User not found"	No action taken	EC60 4
TC-AD M-005	Fraud listing	Flag detected	Property 750	Status Under Review	Listing hidden	EC60 5
TC-AD M-006	Clear false fraud	Admin clears	Property 750	Status Active	Visible again	EC60 6
TC-AD M-007	Announcement	Send message	"Maintenance at 2 AM"	Shown to all users	System-wide display	EC60 7
TC-AD M-008	Unauthorized access	Buyer attempts /admin	Buyer -> /admin	"Access denied"	Blocked	EC60 8

9. Notifications & Alerts

9.1 Equivalence Class IDs

ECID	Description
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EC701 Subscribe to alerts

EC702 Unsubscribe

EC703 Match found → alert sent

EC704 No match → no alert

EC705 Admin announcement shown

EC706 Read/unread notification

9.2 Test Cases

TC ID	Scenario	Description	Input	Expected Result	Acceptance Criteria	ECID
TC-NTF-001	Subscribe	Save alert	Location=Gandhinagar	Subscription saved	Appears in alert list	EC701
TC-NTF-002	Trigger alert	Matching property added	Property 900	Notification sent	Correct targeting	EC703
TC-NTF-003	No new listings	No match	None	No notification	Avoid spam	EC704
TC-NTF-004	Unsubscribe	Remove alert	Alert ID 10	Removed	No future alerts	EC702
TC-NTF-005	Announcement	Admin message	Maintenance notice	Visible to all	Broadcast working	EC705
TC-NTF-006	Mark read	User opens notification	1 unread	Icon count decreases	Successful read tracking	EC706

10. Non-Functional Requirements (NFR) Test Cases

10.1 Performance & Scalability

TC ID	NFR Category	Description	Expected Result
TC-NF-001	Performance	100 concurrent users searching	95% responses < 3 sec
TC-NF-002	Scalability	10,000 users stress test	No crash, error <2%

10.2 Security

TC ID	NFR Category	Description	Expected Result
TC-NF-003	Password Security	Check DB for plaintext	Only hashed passwords
TC-NF-004	Session Handling	Use old session after logout	Access denied
TC-NF-005	Access Control	Non-admin hits /admin	401/403

10.3 Usability & Compatibility

TC ID	NFR Category	Description	Expected Result
TC-NF-006	Usability	New user task test	Tasks completed easily
TC-NF-007	Compatibility	Chrome/Firefox/Edge/mobile	UI consistent & functional

10.4 Availability & Maintainability

TC ID	NFR Category	Description	Expected Result
TC-NF-008	Availability	Simulated monitoring	99% uptime
TC-NF-009	Maintainability	Add property category	No downtime, data intact

10.5 Legal & Privacy

TC ID	NFR Category	Description	Expected Result

TC-NF-010 Legal Compliance RERA-required fields missing Block listing

TC-NF-011 Document Validity Expired docs Rejected

TC-NF-012 Data Privacy Access someone's document Denied