

Black Box Test Cases:

Normal Test Cases (Functional)

Test Case ID	Test Case Description	Preconditions	Test Steps	Expected Result
TC01	Validate mandatory fields during product listing	User is logged in and listing a product	Leave title, description, category, price, location empty, and submit	Error: 'All fields are required'
TC02	Validate title length during product listing	User filling form	Enter a title with less than 5 or more than 20 characters	Error: 'Title must be between 5 and 20 characters'
TC03	Validate description length during product listing	User filling form	Enter description <1 or >50 characters	Error: 'Description must be between 1 and 50 characters'
TC04	Validate price range during product listing	User filling form	Enter price <1 or >100000	Error: 'Price must be between 1 and 100000'
TC05	Validate all required fields during registration	User opens register form	Leave any field empty and submit	Error: 'All fields are required'
TC06	Validate password length during registration	User opens register form	Enter password shorter than 6 chars	Error: 'Password must be at least 6 characters'
TC07	Validate full name length during registration	User opens register form	Enter full name shorter than 5 chars	Error: 'Full name must be at least 5 characters'

TC08	Password prompt on product deletion	User tries to delete product	Delete product	Prompt user for password
TC09	Password + reCAPTCHA for admin creation	Admin promotes user	Try to make someone admin	Prompt for password and reCAPTCHA
TC10	Password + reCAPTCHA for user removal	Admin removes user	Try deleting a user	Prompt for password and reCAPTCHA
TC11	Verify successful product listing	Valid product info entered	Submit form	Product is listed successfully
TC12	Verify successful registration	Valid details entered	Submit register form	User is registered successfully

Boundary Value Test Cases

Test Case ID	Test Case Description	Preconditions	Test Steps	Expected Result
B01	Title exactly 5 characters (lower boundary)	User filling form	Enter 5-character title	Product accepted
B02	Title exactly 20 characters (upper boundary)	User filling form	Enter 20-character title	Product accepted
B03	Title 4 characters (below lower boundary)	User filling form	Enter 4-character title	Error: 'Title must be between 5 and 20 characters'
B04	Title 21 characters (above upper boundary)	User filling form	Enter 21-character title	Error: 'Title must be between 5 and 20 characters'

B05	Description 1 character (lower boundary)	User filling form	Enter 1-character description	Product accepted
B06	Description 50 characters (upper boundary)	User filling form	Enter 50-character description	Product accepted
B07	Description 0 characters (below boundary)	User filling form	Leave description blank	Error: 'Description must be between 1 and 50 characters'
B08	Description 51 characters (above boundary)	User filling form	Enter 51-character description	Error: 'Description must be between 1 and 50 characters'
B09	Price exactly 1 (lower boundary)	User filling form	Enter price = 1	Product accepted
B10	Price exactly 100000 (upper boundary)	User filling form	Enter price = 100000	Product accepted
B11	Price = 0 (below lower boundary)	User filling form	Enter price = 0	Error: 'Price must be between 1 and 100000'
B12	Price = 100001 (above upper boundary)	User filling form	Enter price = 100001	Error: 'Price must be between 1 and 100000'

Negative Test Cases

Test Case ID	Test Case Description	Preconditions	Test Steps	Expected Result
N01	Submit empty	User on	Submit without	Error: 'All fields

	product form	product form	filling fields	are required'
N02	Submit empty register form	User on register page	Submit without any input	Error: 'All fields are required'
N03	Passwords do not match on confirmation	User registering	Enter mismatching password and confirm password	Error: 'Passwords do not match'
N04	SQL Injection attempt in title field	User filling product form	Enter title: ``; DROP TABLE products; --`	Input rejected/sanitized
N05	Special characters in price field	User filling product form	Enter price = `abc\$%#`	Error: 'Invalid price format'
N06	Exceed character limit in all fields	User filling form	Fill > allowed characters in title/description	Error: 'Maximum characters exceeded'
N07	Bypass reCAPTCHA during admin creation	Admin promoting user	Skip captcha step (tampering)	Action blocked, captcha required