



Rakshit Girish PES1UG22CS465

Rahul Pandith PES1UG22CS623

Real Estate Management Implementation Test Cases

Test Case ID: TC01

Test Scenario: User Registration

Test Case Description: Verify user registration functionality, ensuring unique user IDs and secure password storage.

Test Setup: System connected to MySQL database with secure password storage enabled.

Test Steps:

1. Open the registration page.
2. Input valid user details (name, email, and password).
3. Submit the form.
4. Verify unique user ID generation in the database.
5. Confirm password is stored securely (hashed).

Prerequisites: Database configured with user table schema.

Test Parameters:

- User email format and uniqueness
- Password requirements (length, special characters)

Expected Result: User is registered successfully, unique user ID generated, and password stored as hash.

Actual Result: New user account created successfully and visible in DB

Status: PASS

Test Case ID: TC02

Test Scenario: Property Listing Creation

Test Case Description: Verify that agents/admins can create property listings with complete information.

Test Setup: System configured to connect with the property database.

Test Steps:

1. Log in as agent/admin.
2. Navigate to "Add Property" form.
3. Fill in property details (location, type, and price).
4. Submit the listing.
5. Check the database for correct property information storage.

Prerequisites: User account with agent/admin role.

Test Parameters:

- Property location format
- Pricing limits

Expected Result: Property listing is created with all information stored in the database.

Actual Result: Listing of Property Is Created

Status: PASS

Test Case ID: TC03

Test Scenario: Property Search Functionality

Test Case Description: Verify property search functionality using various filters (location, price, type).

Test Setup: Database populated with sample properties.

Test Steps:

1. Open property search page.
2. Enter search criteria (e.g., location, price range).
3. Run the search query.
4. Verify that returned results match the criteria.

Prerequisites: At least one property listing in the database.

Test Parameters:

- Search filters: location, price range, property type

Expected Result: Relevant properties matching search filters are displayed.

Actual Result: Properties Displayed Based On Applied Search Filters

Status: PASS

Test Case ID: TC04

Test Scenario: Transaction Processing

Test Case Description: Verify that property purchases are recorded correctly and that transactions update user account balances.

Test Setup: System connected to MySQL with transaction management enabled.

Test Steps:

1. Log in as a buyer.
2. Select a property and proceed with the purchase.
3. Confirm transaction details (amount, payment method).
4. Check the database for updated transaction status and user account balance.

Prerequisites: Active user account with sufficient balance.

Test Parameters:

- Transaction amount
- Payment method validity

Expected Result: Transaction is recorded, and user account balance is updated.

Actual Result: Transaction Recorded For the Property

Status: PASS

Test Case ID: TC05

Test Scenario: Error Handling for Database Connectivity Issues

Test Case Description: Verify system response when the database connection is unavailable.

Test Setup: Database connection intentionally disabled.

Test Steps:

1. Attempt to access any feature that requires database interaction (e.g., user login, property listing).
2. Observe system response.

Prerequisites: None (Database intentionally offline).

Test Parameters:

- Connection status check

Expected Result: Error message displayed

Actual Result: Database unavailable, please try again later

Status: PASS

Test Case ID: TC06

Test Scenario: Property Availability Update

Test Case Description: Verify that the property status (available, sold, and pending) updates correctly and is reflected across user views.

Test Setup: System configured with sample property listings in the database.

Test Steps:

1. Log in as an agent/admin.
2. Navigate to a listed property and change its status to "Sold."
3. Confirm that the status change is updated in the database.
4. Log in as a buyer and search for the property.
5. Verify that the updated status ("Sold") is displayed and the property is no longer available for new offers.

Prerequisites: Active property listings in the database and an account with agent/admin privileges.

Test Parameters:

- Property ID
- Status values: available, sold, pending

Expected Result: Property status updates correctly in the system, and buyers cannot make offers on properties marked as sold.

Actual Result: Property is Sold

Status: PASS

Test Case ID: TC07

Test Scenario: Property Wishlist Functionality

Test Case Description: Verify that buyers can add properties to their wishlist and view them later.

Test Setup: System connected to MySQL database with sample property listings.

Test Steps:

1. Log in as a buyer.
2. Browse available properties and select one to add to the wishlist.
3. Confirm addition to wishlist.
4. Navigate to the wishlist section and verify that the property appears in the list.
5. Remove the property from the wishlist and check that it is no longer displayed in the wishlist section.

Prerequisites: User account with buyer role and at least one property listed in the system.

Test Parameters:

- Property ID
- User session persistence for wishlist items

Expected Result: Property is successfully added to and removed from the wishlist, with changes reflected immediately.

Actual Result: Property Is Successfully Added To Wishlist

Status: PASS