

PropriskAI Test Documentation

Catalog

1. Summary of tests

1.1 Purpose of the test	1
1.2 Test environment.....	1

2. Functional testing

2.1 Login and Logout Test	1
2.2 User registration test.....	4
2.3 Search Vendor Testing	6
2.4 Query Real Estate Company Testing	9

3. Summary

1. Test Summary

1.1 Purpose of the test

This test document is a test document for the PropriskAI project.

This document, based on the black box testing related methodology, conducts functional and stress tests on the web side of PropriskAI to check whether it can meet the project requirement standards.

1.2 Test environment

Backend database:

- Database: MongoDB v7.0.6

Project development environment:

- Development Language: Python 3.8.18
- Backend Framework: Flask 3.0.2
- Front-end framework: Vue3

Test the site environment:

- Browser: Microsoft Edge version 122.0.2365.92 (official) (64-bit)
- Operating system: Windows 10 Home Edition 64-bit

2. Functional Testing

2.1 Login and Logout Test

Use Case Figure 1:

Use Case Number	A001	Affiliated Modules	User Login and Logout
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Use case name	user login	
Participants	users, systems	
State of affairs	Open the PropriskAI website	
Objectives	Users are able to successfully log in to the system by providing credentials	
Pre-conditions	Users must be registered and have valid account information	
Test	Operation	Result
Test 1	Input legitimate user name and password	Successfully logged in, jumped to the home page of the website, as expected
Test 2	Input illegal user name and password	Login fails with an incorrect username or password, as expected

Main Success Scene:

1. The user opens an application or accesses the system login page.
2. The system displays a login form asking the user to enter a username and password.
3. The user enters a valid username and password.
4. The system verifies that the credentials provided by the user match those stored in the system.
5. If the credentials match, the system allows the user to log in and navigates the user to the main page of the application.
6. The system displays a message of successful login and provides access to other features of the application.

Extension:

Step 4 failed:

- (1) If the credentials provided by the user do not match the credentials stored in the system, the system displays the appropriate error message.

(2)The user is prompted to re-enter credentials.

(3)Return to step 3.

Special Needs:

Username and password input fields should be masked to protect user privacy.

The system should securely monitor user login attempts, for example by limiting the number of attempts or implementing mechanisms such as CAPTCHAs to prevent brute force attacks.

Users can select the "Forgot Password" option to proceed with the password reset process.

If a user enters an invalid username or password, the system should provide a clear error message to guide the user to the correct action.

Use Case Figure 2:

Use Case Number	A002	Affiliated Modules	User Login and Logout
Use case name	user logout		
Participants	users, systems		
State of affairs	Open the PropriskAI website		
Objectives	Users logged into the system are successfully logged out		
Pre-conditions	The user has successfully logged into the system		
Test	Operation	Result	
Test 1	Click the Logout button	Successful logout, jump to the system login screen	

2.2 User registration test

Use Case Figure 3:

Use Case Number	A003	Affiliated Modules	User Registration
Use case name	User Registration		
Participants	users, systems		
State of affairs	Open the PropriskAI website		
Objectives	The user is able to successfully register as a user of the system by providing the necessary information.		
Pre-conditions	The user goes to the registration page and the system is in an available state		
Test	Operation	Result	
Test 1	Enter your username and password, and re-enter your password to confirm.	Successful registration, jump to the system home page	
Test 2	Enter your username and password, and enter the wrong password twice.	Registration fails with wrong password	

Main Success Scene:

1. The user opens the application or accesses the system registration page.
2. The system displays a registration form that asks the user to fill in the necessary information, such as user name, email address and password.

3. The user fills in all required fields and provides valid information.
4. The user submits the registration form.
5. The system verifies that the information provided by the user is in the correct format, including the uniqueness of the user name
6. If all authentication passes, the system saves the user's information in the database and assigns a unique user ID.
7. The system displays a message of successful registration and enables the user to log in to the system immediately.

Extension:

Step 5 fails:

- (1) If the information provided by the user does not meet the format requirements or if the user name is already taken, the system displays a corresponding error message.
- (2) The user is prompted to refill the registration form.
- (3) Return to step 2.

Special Needs:

Username must be unique and conform to specific formatting requirements, such as length limits, allowed characters, etc.

Passwords must meet security requirements such as minimum length, inclusion of letters, numbers and special characters.

The system should have mechanisms to prevent malicious registrations, such as CAPTCHA and human verification.

Remarks:

Users should be able to update their information by editing their profile after registration.

The system should record the date and time of registration and other relevant information for subsequent analysis and management of user data.

2.3 Search Vendor Testing

Use Case Figure 4:

Use Case Number	A004	Affiliated Modules	Search for suppliers
Use case name	Search for suppliers		
Participants	users (non-members), systems		
State of affairs	Open the Housing Affiliate Search page in the PropriskAI website		
Objectives	Users are able to search for suppliers in the system by keywords.		
Pre-conditions	The user is logged in to the system and the system is in an available state		
Test	Operation	Result	
Test 1	Enter the correct real estate company name	Successful enquiry, the webpage successfully displays the supplier information of the corresponding real estate company's related transactions, and the company details financial information will be blurred.	
Test 2	Enter the correct real estate company stock code	Successful enquiry, the webpage successfully displays the supplier information of the corresponding real estate company's related transactions, and the company details financial information will be blurred.	
Test 3	Enter the wrong real estate company name	Failed to search, indicating that the corresponding real estate company was not found.	

Test 4	Enter the wrong real estate company stock code	Failed to search, indicating that the corresponding real estate company was not found.
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Use Case Figure 5:

Use Case Number	A005	Affiliated Modules	Search for suppliers
Use case name	Search for suppliers		
Participants	users (members), systems		
State of affairs	Open the Housing Affiliate Search page in the PropriskAI website		
Objectives	Users are able to search for suppliers in the system by keywords.		
Pre-conditions	The user is logged in to the system and the system is in an available state		
Test	Operation	Result	
Test 1	Enter the correct real estate company name	Successful query, the web page successfully displays the supplier information of the corresponding real estate company's affiliated transactions, displaying the complete information of the company.	
Test 2	Enter the correct real estate company stock code	Successful query, the web page successfully displays the supplier information of the corresponding real estate company's affiliated transactions, displaying the complete information of the company.	
Test 3	Enter the wrong real estate company	Failed to search, indicating that the corresponding real estate company was	

	name	not found.
Test 4	Enter the wrong real estate company stock code	Failed to search, indicating that the corresponding real estate company was not found.

Main Success Scene:

1. The user finds the functional entry for searching suppliers in the system interface.
2. The user clicks on the Search Supplier function portal to enter the search page.
3. Users enter keywords or relevant information in the search box to specify search criteria.
4. The user submits a search request.
5. The system searches the supplier database based on keywords provided by the user and returns a list of qualified suppliers.
6. The system displays a search results page that lists supplier information that matches the search criteria, including name, contact information, and so on.
7. Users browse search results and view details of interested suppliers.

Extension:

Step 5 fails:

- (1) If the system does not find a supplier that matches the keywords provided by the user, the system displays a corresponding message indicating that no eligible supplier was found.
- (2) Users can modify search criteria and resubmit search requests.
- (3) Return to step 3.

Special Needs:

The system should be able to handle large amounts of supplier data and the search should be fast enough to provide a good user experience.

Users should be able to sort or filter search results based on different criteria, such as by name, region, rating, etc.

Search results should be presented to the user in a clear manner, including important information about the supplier and a portal linking to detailed information.

Remarks:

Users can use the search function to discover new suppliers or find specific suppliers to meet their business needs.

The system can record the user's search history and search results in order to provide personalised search suggestions and recommendations.

2.4 Query Real Estate Company Testing

Use Case Figure 6:

Use Case Number	A006	Affiliated Modules	Search for property companies
Use case name	Search for property companies		
Participants	users (non-members), systems		
State of affairs	Open the Supplier Risk Enquiry page in the PropriskAI website		
Objectives	Users are able to search for real estate companies in the system by keywords or other relevant information.		
Pre-conditions	The user is logged in to the system and the system is in an available state		
Test	Operation	Result	
Test 1	Enter the correct supplier company name	Successful query, the web page successfully displays the real estate enterprise information of the corresponding supplier company for related transactions, and displays the complete information of the supplier	

		company.
Test 2	Enter the correct supplier organisation code	Successful query, the web page successfully displays the real estate enterprise information of the corresponding supplier company for related transactions, and displays the complete information of the supplier company.
Test 3	Enter the correct supplier company name	The query fails, suggesting that the corresponding supplier company is not found.
Test 4	Enter the correct supplier organisation code	The query fails, suggesting that the corresponding supplier company is not found.

Main Success Scene:

1. Users find the functional entry for searching real estate companies in the system interface.
2. The user clicks on the Query Real Estate Company function portal to enter the query page.
3. The user fills in or selects relevant query conditions on the query page, such as company name, region, size, etc.
4. The user submits a query request.
5. The system performs a query in the real estate company database based on the query conditions provided by the user and returns a list of real estate companies that meet the conditions.
6. The system displays a query result page listing the real estate company

information that meets the query criteria, including company name, address, size, etc.

7. Users browse through the search results and view details of the property companies of interest.

Extension:

Step 5 fails:

(1) If the system does not find a real estate company that matches the query criteria provided by the user, the system displays a corresponding message indicating that a matching real estate company was not found.

(2) The user can modify the query criteria and resubmit the query request.

(3) Return to step 3.

Special Needs:

The query function should support flexible query conditions so that users can query real estate companies according to different needs.

The system should be able to handle large amounts of real estate company data and queries should be fast enough to provide a good user experience.

Users should be able to sort or filter query results based on different criteria, such as by name, region, size, etc.

The results of the enquiry should be presented to the user in a clear manner, including important information about the real estate company as well as an entry point linking to the details.

Remarks:

Users can use the enquiry function to find out information about real estate companies in a particular area or of a particular type for collaboration or other business activities.

The system can record the user's query history as well as query results in order to provide personalised query suggestions and recommendations.

3. Summary

After the above series of functional tests, PropriskAI products successfully passed the series of tests and met the criteria of project requirements.