Test document

一、Test theory

In the development process of a system, some errors are inevitable. The functional problems in hardware implementation and the syntax errors in software implementation are easily discovered in the initial implementation process. For these errors, most of the compilation tools will automatically prompt at runtime and ask for correction. But some logic errors in the design are not so easy to find. Because these errors are extremely concealed, it is necessary to fully test the system before it is officially run.

二、Main content of system testing

In order to ensure the quality of the test, the system test mainly includes code review, module test, functional test, security test and so on.

Code review: After the system is implemented, the code should be tested for its standardity. Test whether the interfaces can jump correctly and whether the buttons in each page can work normally.

Module test: Test the system's login module, management module, analysis module, data display module, etc. to ensure that it works properly.

Security test: In order to ensure the security of the system, the system sets the administrator role to monitor the user login login and usage.

三、System module test

System module testing is mainly to carry out detailed testing work on each functional module in the system, find problems and deal with problems. The test work is to manually operate the system repeatedly, observe the results of the system operation, and determine whether the function module meets the application requirements. The specific test is shown in the following table:

Test content	Test method	Expected result	Result
Registration test	1, open the registration page 1、2, use the mailbox to register and set the username and password 3, use the registration mailbox to receive the verification code 4. Enter the verification code on the registration page. 5. Click the Register button to register 6, use multiple mailboxes to do the above	1. Users can register without using the error message. 2. The registered user can log in.	pass
Login test	1, open the login interface 2. Enter the user name and password of the registered account to log in. 3. Change multiple accounts to perform the above operations.	1. The user can log in and use the function of the website by logging in with the username and password of the registered account. 2. Unregistered users, passwords, or users whose usernames are entered incorrectly will not be able to log in and get corresponding prompts.	pass
Change password test	1. Successful login using the registered account 2. Click the Change Password button. 3, enter the original password 4, enter a new password 5, confirm the new password 6, click the OK button to	1. The password can be successfully changed when the original password is entered correctly. 2. The password cannot be changed when the original password is entered incorrectly and there will be	pass

	change the password 7, repeat the above operation	corresponding prompts.	
Submit request test	1. Log in to the account 2. Submit an analysis request 3. Return to the personal page to see if the request was submitted successfully.	1. The submitted request is successfully displayed on the page 2. If the request fails, return the corresponding information.	pass
Website usage test	1. Successful login using the registered account 2. Enter the company abbreviation, complete company name and stock code in the main interface search box to search. 3. Analysis of the searched company application 4. After receiving the email sent by the website to inform the analysis that it has been completed, go to the website to view the analysis results. 5, enter different companies to conduct multiple analysis and testing	1. Search function can perform fuzzy search on keywords 2. The company submitted by the user to submit the application and get an email reminder after successful submission 3. After the company's query task submitted by the user is completed, an email reminder is obtained.	pass
Delete request test	1. Log in to the account 2. View the request list 3. Delete selected request	1. Successfully delete the analysis request	pass
Account cancellation test	1. Log in to the account 2. Cancel the account	1. The account is successfully cancelled	pass
Result display test	1.Submit an application 2. View the results	1. Analysis completed 2. The results are displayed correctly	pass

四、System test

The completion of the module test only guarantees the normal operation of the module, and it cannot guarantee whether the whole work can be operated normally. Therefore, after the module test is completed, a complete use case test of the system is performed to verify that the system is operating normally.

The normal workflow of the system is: after the user registers/login, the search company submits the analysis request, and the data obtained by the website will be displayed after the analysis phase is completed. For users to refer to.

The test process is as follows:

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          (  Start   )
          └──────────┘
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                ▼
        ┌────────────────┐
        │  log in  or    │────────┐
        │   Register     │        │
        └────────────────┘        │
                │                  │
                ▼                  │
        ┌────────────────┐        │
        │    Search      │        │
        │    company     │        │
        └────────────────┘        │
                │                  │
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        ┌────────────────┐        │
        │    submit      │        │
        │  application   │        │
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        │   results      │
        └────────────────┘
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          ┌──────────┐
          (   End    )
          └──────────┘
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