https://gitee com/cazser

**Guo Xinqi**

**Male test engineer**

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education experience

postgraduate (student)：Harbin Normal University

time：2019-2023

major：software engineer

undergraduate course：Northeast Agricultural University

Time：2013-2018

Major：农林经济管理专业

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| Work experience  2022.9-2023.12  Baidu  Job ： Test engineer |
| **Skills**  Ability to write test plans, test reports, and other test documents.  Ability to write test plans, test reports and other test documents  Ability to analyze the system, identify test requirements, and write test cases.  Able to build and maintain test environments independently  Proficiency in scenario-based testing, error speculation, boundary value testing, and equivalence class division testing.  Proficiency in Python, including data models, built-in functions, common exceptions, method calls, and other testing methods.  including data models, built-in functions, common exceptions, method invocations, etc.  Proficiency in using software testing tools such as： jmeter、fiddler、 charles、appium、chrome dev tool.  Proficiency in using Navicat, a development tool for database connectivity, and xshell and Mobaxterm tools.  Skilled in using MySQL's add/delete/review, associative query, aggregation function, etc., and understand database transaction and indexing.  Skill in using adb and linux commands.  Skilled in using automation testing tools selenium, appium, able to independently write test scripts, use unittest to execute use cases and HTMLTestRunner to generate test reports, understanding of automation framework execution principle.  Master the automation framework development model of POM, and understand the product internalization.  technical architecture Hadoop、MapReduce、HDFS  **Proficiency in app-specific testing processes**  **Understanding of the OSI seven-layer model, TCP, IP, HTTP, FTP protocols, and common HTTP status codes.**  special column  <https://www.zhihu.com/people/guo>-  xin-qi-90/columns  **Github page**  <https://github.com/cazser>  **Gitee page**  . |

Projects participated in during the work period

2023.01-2023.12 Baidu online disk system

**Project Description:**

**Baidu.com is a file management system based on cloud storage, the main functions include file uploading, downloading, sharing, favorites, backup, member services and other functions. Baidu NetDisk supports one-click backup, one-click sharing, and second transfer. Users can upload their files to the cloud for real-time and cross-device access, which can bring users a better experience. In addition, Baidu.com is characterized by large capacity, high security, and support for multiple platforms.**

**Project Architecture:**

**Baidu.com disk system belongs to the distributed system architecture.**

**1. System deployment are: Weblogic mysql**

**2. Big data services are: Hadoop (to solve the increasing file storage and data volume bottlenecks)**

**3. Hbase (non-relational database, suitable for hadoop distributed computing framework, processing large amounts of data.)**

**4. MapReduce framework (distributed computing problem, programming model): there are two methods Map method and Reduce method. 5.**

**5. Map: each file is sliced by a separate machine to process. 6.**

**6. Reduce: the results of the calculation of each machine will be summarized to get the final result.**

**Work content**

**(I) Functional testing:**

**1. In the early stage, be responsible for planning the test scope, test schedule, test risk prevention, defining the test organization relationship, test type, test passing criteria, etc. and forming the final test plan, and then carry out requirement analysis, requirement review, use case development, use case review, and test data preparation for the three modules of file uploading, sharing, and backup.**

**2. In the middle stage, we execute the use cases, collect the bugs generated during the testing process, locate and analyze the types of bugs and the reasons for them, do the docking work with the developers, and track the status of the bugs for the regression test.**

**3. Later, analyze the test results, generate test conclusions according to the guidelines, prepare test reports, and finally archive the tests.**

**(ii) Interface testing:**

**1. In the early stage, we divide the scope of interface testing, set up the test environment, prepare the interface documents and develop test cases, consider the scenario method, boundary value method, data abnormality, parameter abnormality and security in the design of test cases, and store the data of the test cases in the csv file.**

**2. In the middle term, use jmeter to develop test scripts, add http requests, configure url, request format, encoding format, request parameters, and test scripts.**

**Mid-term use jmeter to develop test scripts, add http requests, configure url, request format, encoding format, request parameters, add response assertions, view the result tree and other components, add cookie manager, regular expression extraction, cvs data set config and other components for script enhancement, configure the path to the csv file, encoding format, variable references, ignoring the first line, etc. After that, execute the scripts, collect and use the csv file. After that, we execute scripts, collect and use fiddler to locate and analyze bugs, submit bugs to developers for fixing, and continuously follow up with developers.**

**After that, we execute the scripts, collect and analyze the bugs by using fiddler to capture packets, submit the bugs to the developer for fixing, and constantly follow up the status of bugs.**

**3. Later on, we mainly carry out regression testing on the bugs, summarize the tests after all the tests are passed, write test reports and archive the tests.**

**4.Solve technical and business problems encountered by other testers.**

(iii) automation testing:

1. pre-division of the scope of automation testing, with a large number of repetitive operations, a large number of data processing as the basis for automation of the division (file uploading, sharing), build a test environment, determine the hardware equipment we use, software environment, server-side environment configuration, etc., clearly use selenium automation testing framework for automation processing, and prepare the data needed for automation testing.

2. Develop automation scripts in the middle stage, import selenium webdriver, ddt module, unittest framework, and time module,

unittest framework, time module, etc., according to the pom idea of layered development of the framework, script development is completed after the execution of our test script, and collect the test results, and the resulting bugs to locate and analyze, and finally submitted to the development of the repair.

3. Later on, we are responsible for following up the bugs, docking with the developers, conducting regression tests on the bugs, and compiling the final test reports and test archives. At the same time, we will keep our scripts

At the same time, we will keep our scripts, continuously improve them and enhance them for the iterative testing of subsequent software versions.

4.Assist in solving problems encountered by other testers in the process of script development.

**2022.09-2023.01** Baidu Library

Project Description:

Baidu Wiku is a platform published by Baidu for netizens to share documents online. Documents are uploaded by Baidu users and published after Baidu's review. Baidu Wikipedia is a platform for users to share documents online, which are uploaded by Baidu users and reviewed by Baidu. The documents include teaching materials, exam questionnaires, professional materials, official documents, legal documents, etc. Netizens can read them online, upload, bookmark, download, format conversion, etc. It also supports the point system and the membership system, so that users can enjoy more rights and benefits. Based on Baidu's technology background, Baidu Wikipedia also has a large number of users,

Baidu Wikipedia is also characterized by a large number of users, rich resources, easy operation, and accurate search.

Project Architecture:

Baidu library system adopts php+mysql technology architecture system, the bottom layer uses thinkphp framework, and Baidu library template style as the basic style. The whole system architecture is based on

The whole system architecture is based on MySQL+PHP technology architecture system, in which MySQL is a relational database management system. thinkphp is a PHP development framework based on the MVC model, which provides a series of tools and methods, so that developers can more efficiently carry out the development of Web applications.

1. Distributed file storage technology

2. Search engine technology

3. Content security technology

4. Big data processing technology

5. Cloud computing technology

Work content:

(I) Functional testing:

1. Mainly responsible for the functional testing of Baidu library file upload, file collection and format conversion modules. Determine the testing requirements for the modules you are responsible for, and organize and carry out the review of the requirements within the group.

2. Design test cases based on scenarios, equivalence classes, boundary values, etc., then review the test cases within the group and improve the test cases.

3.Execute the use cases, analyze and locate the bugs, submit the bugs to the developers, assist the developers to fix the bugs and then conduct regression testing on the system, and finally write the test report and archive the test after the test is passed.

4. Responsible for the training of other testers and the final quality acceptance.

(ii) Performance testing:

1. I am mainly responsible for the upload and document conversion modules of Baidu library. For example, for file uploading, we need to determine the performance indicators including maximum number of concurrent users, tps, response time, cpu, memory and disk utilization.

2. Design single-transaction benchmark scenarios, single-transaction load scenarios, hybrid scenarios and stability scenarios, and then the client to prepare 3-5 load machine to do distributed load, build test tools

Jmeter, spotlight monitoring tool, and jmeter depend on the java environment jdk.

3. In the middle of the process, design test cases for the four scenarios of the two transactions, then prepare the scripts and add thread groups inside jmeter.

After that, prepare the script, add thread groups inside jmeter to configure the request information, add http requests, respond to assertions and view the result tree, and after successful debugging, add synchronization timers, pmc, tps components and aggregated reports for enhancement.

4. Next, according to jmeter's aggregated reports and other components to analyze the results of the index to locate the problem and submit bugs, and then performance tuning, regression testing.

5. Later in the regression test after a pre-release for acceptance, test in the pre-release environment, and then write a test report, released to the official online environment, and test archiving.

The test report will be prepared and released to the official online environment, and the test will be archived.