

User Guide

1. System Overview

To help users complete the online exam process effectively and independently.

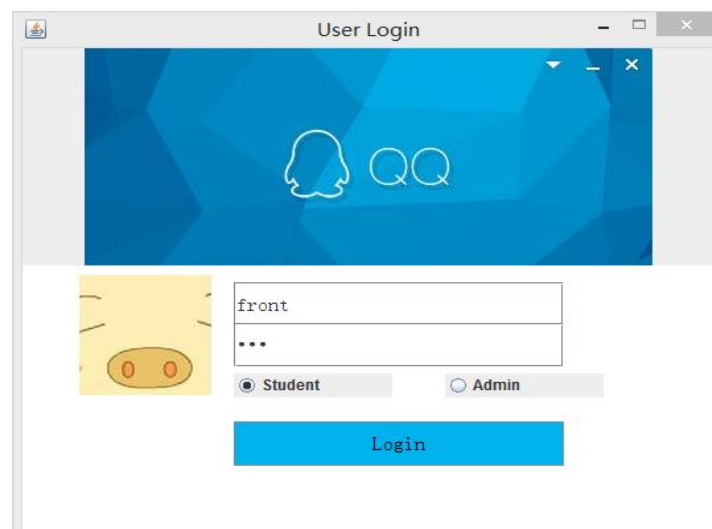
2. Function introduction

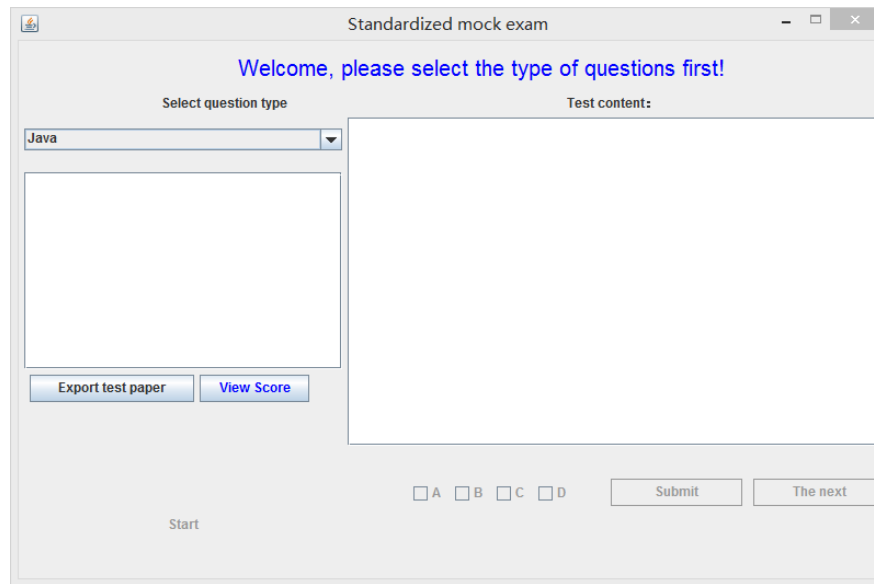
2.1 role: user

For the average user, the functions implemented include logging into the system, retrieving questions based on topics, generating test files, answering and answering questions online, and exporting test files in PDF format.

2.1.1 Student Login

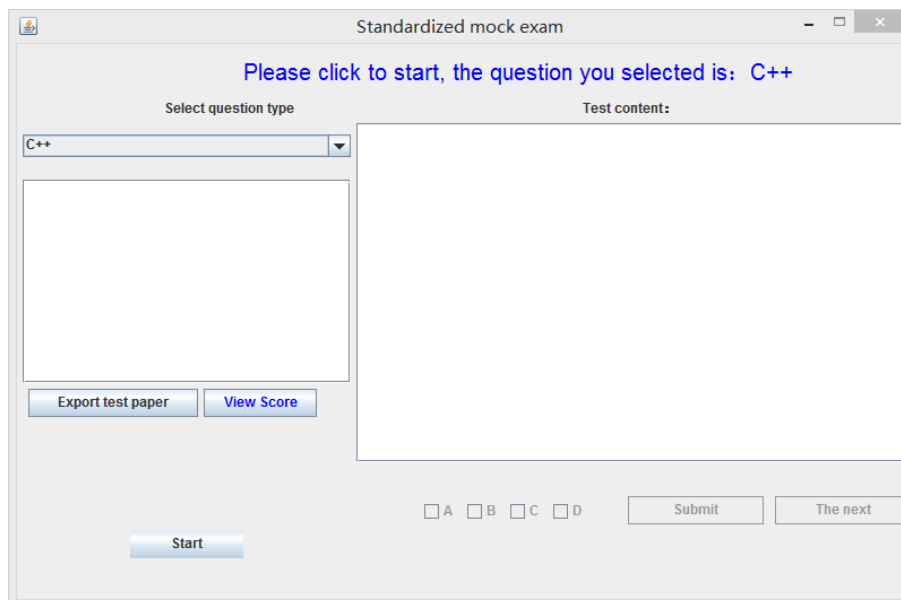
Run the system, students in the login interface, select the "student" identity, fill in the correct user name, password in the corresponding area, click the "login" button to log in to the system. The system will enter the corresponding main interface according to the user's identity and permission range. If the username or password is incorrect or the identity is incorrectly selected, the system prompts "Username or password or identity does not match" and the login fails. After the login is successful, the system jumps to the "Welcome, please select the types of questions first !" interface. The system login interface is as shown below:





2.1.2 Retrieving questions by topic

The user can retrieve the database according to the theme, the selected topics are selected in the drop-down box, and only the theme given by the system can be selected. After the topic is selected, the search screen showing "Please click to start, the questions you select is : " Topic" appears above the search interface:



2.1.3 Generating Test Papers

After the user selects the topic, the system will automatically retrieve the questions

in the database for the corresponding topic, and the test papers will be displayed in the display box on the right.

Question type:

a). Multiple choice questions. The system gives questions and options and the user makes a selection.

b). Open questions. The system only gives questions and the user answers them.

2.1.4 Online test

Click the “Start” button to start timing. Within 2 hours, the user completes a set of test papers (5 questions). After completing a topic, you must click the “Submit” button to submit, then click the “Next Question” button to enter the next question interface. Note: You cannot modify the submitted answer. When the user completes all the questions in the test paper, the system prompts “You should have completed all the questions ,please click on the score to view the test results”. After the time has expired, the system automatically submits the test paper. The online answering interface is shown below:

Standardized mock exam

Please click to start, the question you selected is: C++

Select question type

C++

Test content:

1.In C++, the inheritance relationship between classes has ()

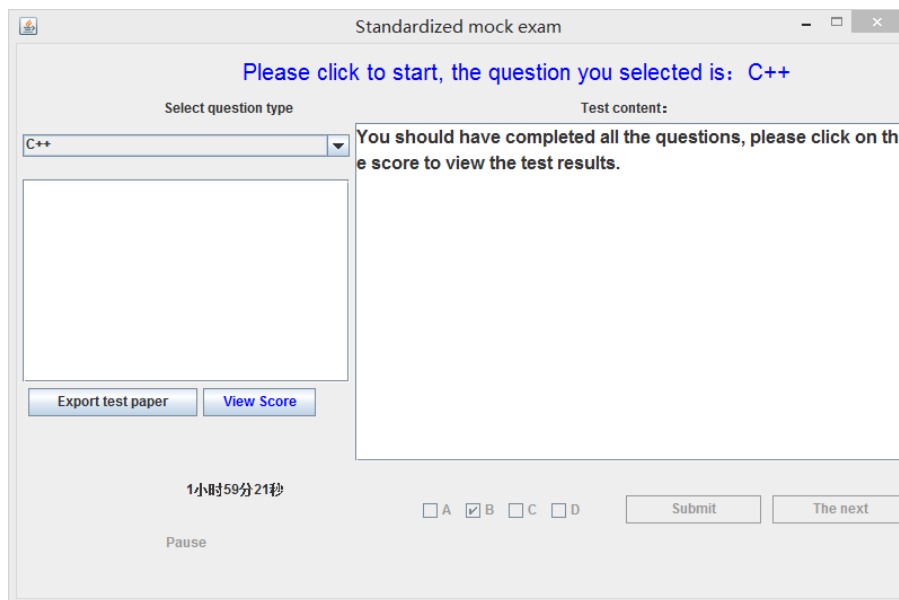
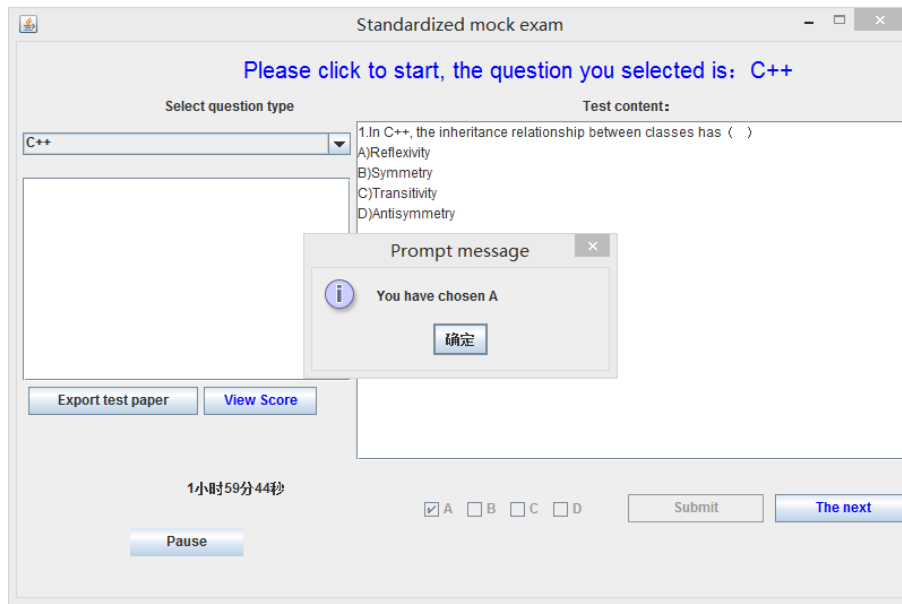
A)Reflexivity
B)Symmetry
C)Transitivity
D)Antisymmetry

Export test paper View Score

1小时59分56秒

Pause

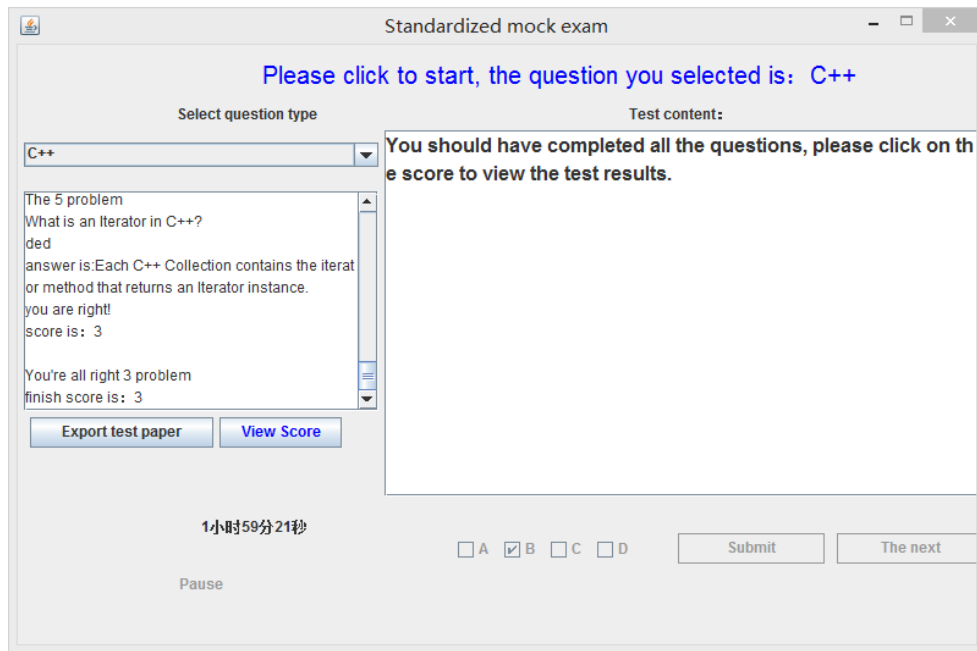
☐ A ☐ B ☐ C ☐ D Submit The next



2.1.5 Analysis of answer results

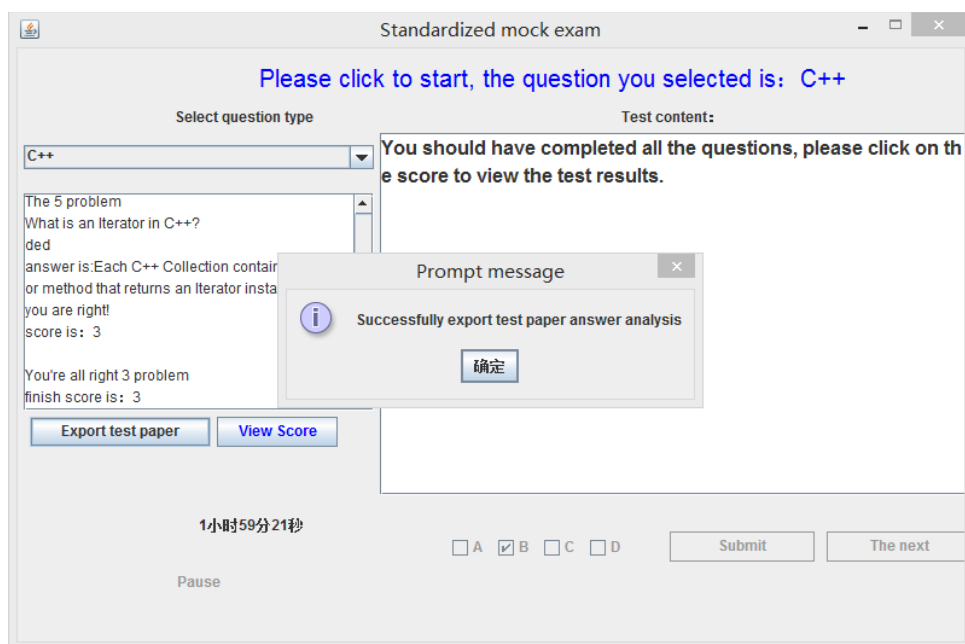
After the user submits the test paper, the test result can be parsed immediately. The analysis results include the answer to each question in the test paper, the correct answer, the cumulative score, and the user's final score. Can help users quickly view test results.

The test sample analysis interface is as follows:



2.1.6 PDF export function

In order to facilitate the user to view the test results offline, the measured problems are recorded, and the system introduces a PDF export function for the test results. The user clicks the "Export test paper" button, and the system prompts " Successfully export test paper answer analysis" the test paper to be exported in PDF format. The result of the export is shown below:

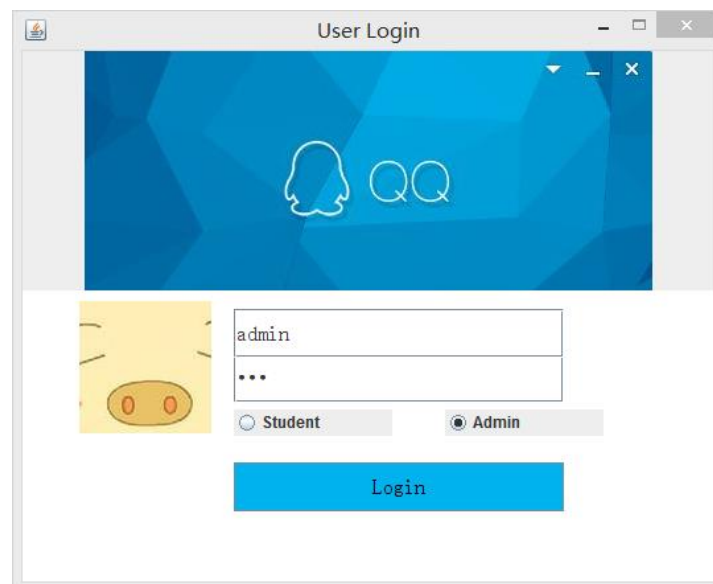


2.2 Role: Administrator

As the administrator of the entire system, the administrator can implement the login function, manage the system users, and manage the test questions. The specific functions are as follows:

2.2.1 Login function

Run the system, the administrator on the login interface, select the "administrator" identity, fill in the correct username and password in the corresponding area, click the "login" button to log in to the system. The system will enter the corresponding main interface according to the user's identity and permission range. If the username or password is incorrect or the identity is incorrectly selected, the system prompts "Username or password or identity does not match" and the login fails. After the login is successful, the system jumps to the "Quiz Management System Admin" interface. The system login interface is as shown below:



Quiz Management System---admin

User Information MCQQuestion OpenQuestion

Operation area

SearchByName front Search Delete

ID

User Name

Password

Level

submit

ID	User name	Password	Level
41785	front	123	2

2.2.2 User Management

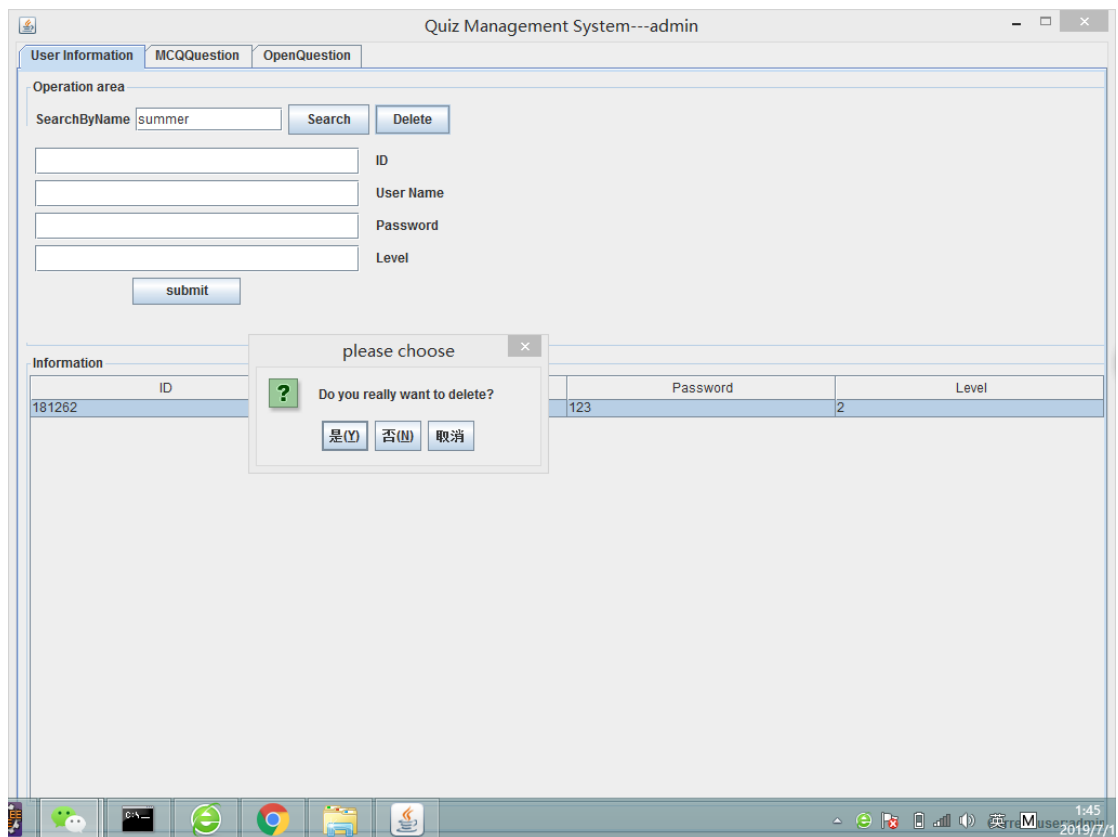
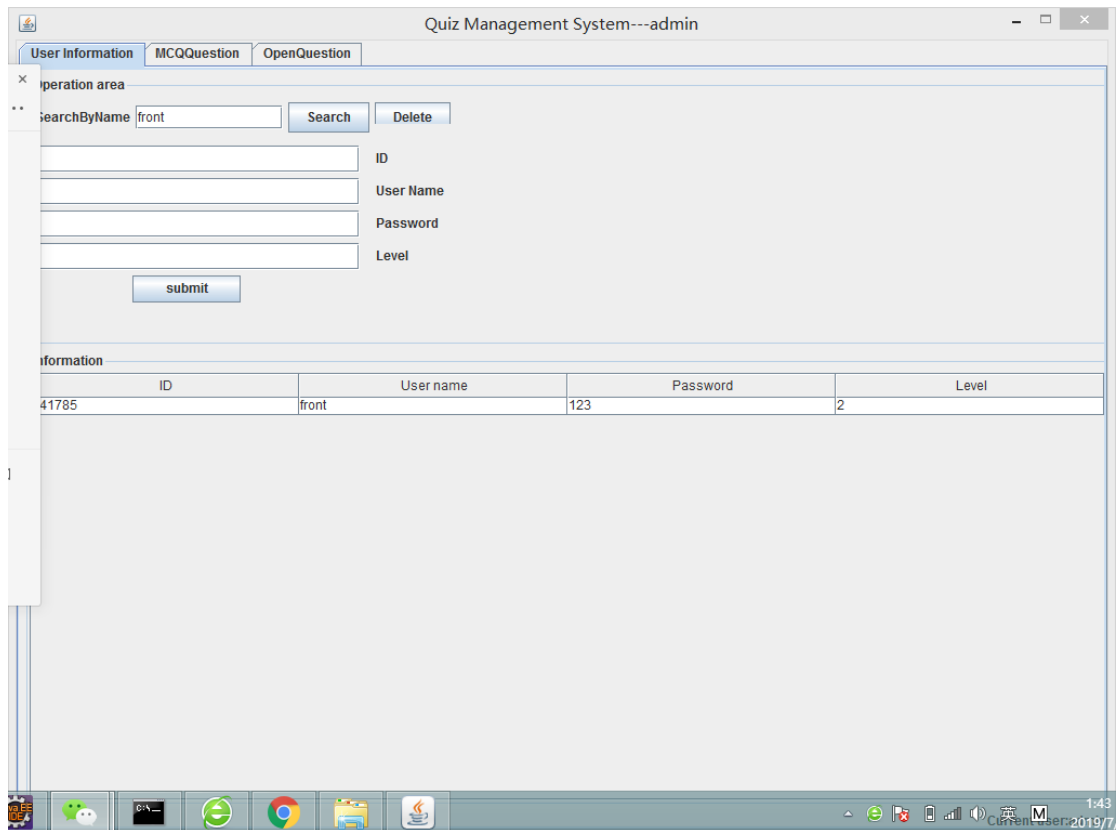
Administrators can manage users:

a). Find users. The user can be searched according to the user name, and the search result includes "ID", "User name", "Password", "Level".

b). Add users. Administrators can add user information, including "student" and "administrator". Level "1" means administrator and Level "2" means student status.

c). Delete the user. The administrator can click the "Delete" button to perform the "Delete User" operation.

User management results are shown below:



2.2.3 MCQ Question Management

a). MCQ Question Search. The database can be searched according to "Topic" and the search results are displayed at the lower display panel.

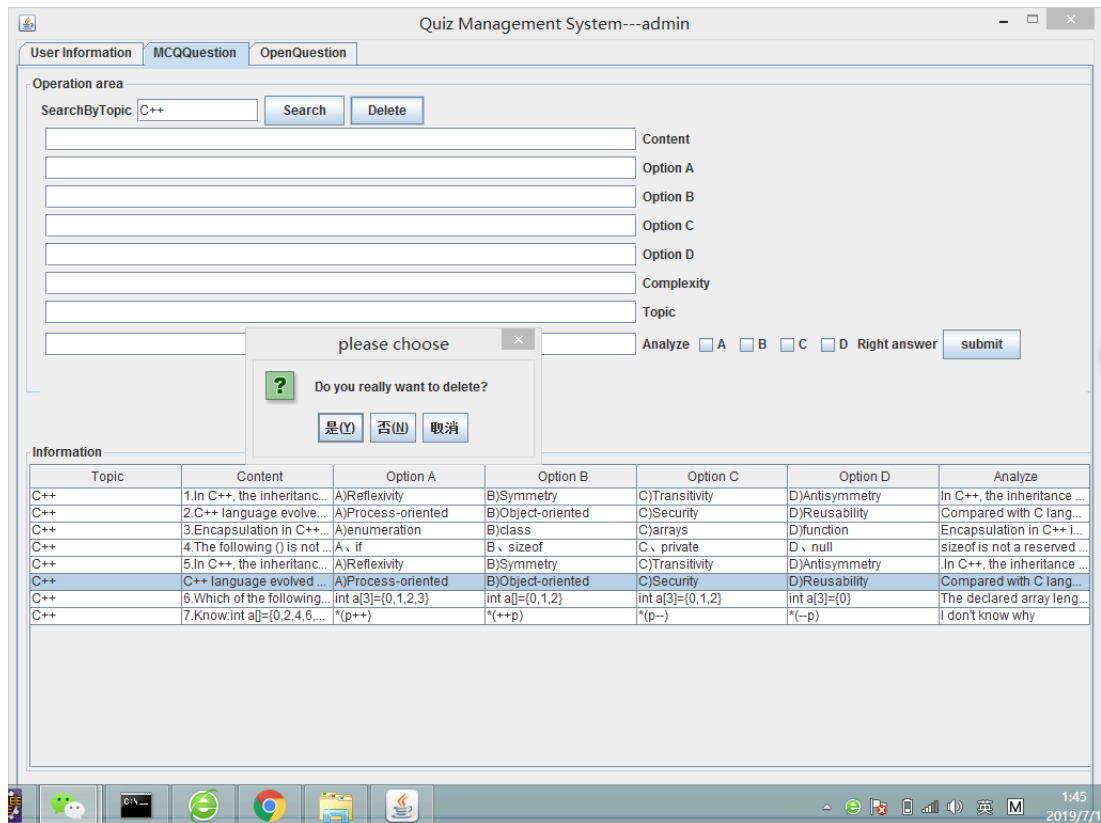
b). The MCQ Question Insert. Fill in the corresponding text boxes "Content", "Option A", "Option B", "Option C", "Option D", "Complexity", "Topic", "Analyze", and then click the "Submit" button. The record is added to the database.

c). The MCQ Question Delete. Select the record in the display box and click the "Delete" button to delete the record.

The MCQ Question management results are shown below:

The screenshot displays the 'Quiz Management System---admin' window. It features three tabs: 'User Information', 'MCQQuestion', and 'OpenQuestion'. The 'MCQQuestion' tab is active, showing an 'Operation area' with a 'SearchByTopic' field containing 'C++', and 'Search' and 'Delete' buttons. Below this are input fields for 'Content', 'Option A', 'Option B', 'Option C', 'Option D', 'Complexity', 'Topic', and 'Analyze'. The 'Analyze' field has radio buttons for 'A', 'B', 'C', and 'D', followed by a 'Right answer' label and a 'submit' button. At the bottom, an 'Information' table lists existing MCQ questions.

Topic	Content	Option A	Option B	Option C	Option D	Analyze
C++	1.In C++, the inheritanc...	A)Reflexivity	B)Symmetry	C)Transitivity	D)Antisymmetry	In C++, the inheritance ...
C++	2.C++ language evolve...	A)Process-oriented	B)Object-oriented	C)Security	D)Reusability	Compared with C lang...
C++	3.Encapsulation in C++...	A)enumeration	B)class	C)arrays	D)function	Encapsulation in C++ l...
C++	4.The following () is not ...	A、 if	B、 sizeof	C、 private	D、 null	sizeof is not a reserved ...
C++	5.In C++, the inheritanc...	A)Reflexivity	B)Symmetry	C)Transitivity	D)Antisymmetry	.In C++, the inheritance ...
C++	C++ language evolved ...	A)Process-oriented	B)Object-oriented	C)Security	D)Reusability	Compared with C lang...
C++	6.Which of the following...	int a[3]={0,1,2,3}	int a[]={0,1,2}	int a[3]={0,1,2}	int a[3]={0}	The declared array leng...
C++	7.Know:int a[]={0,2,4,6,...	*(p++)	*(++p)	*(p--)	*(-p)	I don't know why



2.2.4 Open Question Management Interface

a). Open Question Search. The database can be searched according to "Topic", and the search result is displayed at the lower display panel.

b). The Open Question Insert. Fill in the corresponding text boxes "Content", "Topic", "Complexity", "Analyze", and then click the "Submit" button, the record will be added to the database.

c). The Open Question Delete. Select the record in the display box and click the "Delete" button to delete the record.

The Open Question management results are shown below:

The image shows a web application titled "Quiz Management System---admin". It has three tabs: "User Information", "MCQQuestion", and "OpenQuestion", with the last one being active. The "OpenQuestion" tab contains an "Operation area" with a search bar labeled "SearchByTopic" containing the text "Java". To the right of the search bar are "Search" and "Delete" buttons. Below the search bar are four empty input fields, each with a label to its right: "Content", "Complexity", "Topic", and "Analyze". A "submit" button is located below these fields. At the bottom of the "OpenQuestion" tab is an "Information" section containing a table with three columns: "Topic", "Content", and "Answer". The table has two rows of data. The first row shows "Java" in the Topic column, "5.What is an Iterator in Java? Please write your answer." in the Content column, and "The Iterator interface provides a number of methods that a..." in the Answer column. The second row shows "Java" in the Topic column, "What is an Iterator in Java?" in the Content column, and "The Iterator interface provides a number of methods that a..." in the Answer column. The bottom of the image shows a Windows taskbar with various icons and a system clock displaying "1:46 2019/7/20".