

Nagwa Software Testing Exam



**Q1:** Given that you were asked to test a hybrid mobile application; when opening the application, the latest 10 books are displayed instantly, and the user can explore the application either as anonymous user or as a registered user. The registered user has a full permission to download/read/share/rate books, unlike, the anonymous user. Write ONE test case for each of the following scenarios (BDD technique is preferred):

1. Anonymous user cannot download more than 3 books.
2. You want to test the performance of application while the battery die.
3. You want to make sure that the sorting of the latest 10 books is correct.

**Answer1:**

No1. **Scenario 1:** Anonymous user cannot download more than 3 books.

GIVEN Anonymous user is exploring the app

AND the latest 10 books are displayed instantly

WHEN he already downloaded 3 books

AND he hits ‘download’ for the 4TH book

THEN the book hasn’t been downloaded

AND an error message appears you cannot download more than 3 books

No2. **Scenario 2:** Performance testing for application while the battery die

GIVEN the user is exploring the app

WHEN the battery die

THEN all application works with normal performance

AND there isn’t lazy loading

No2. **Scenario 3:** Make sure that the sorting of the latest 10 books is correct.

GIVEN the user is exploring the app

WHEN he sorts latest 10 books

THEN the latest 10 books sorted correctly

**Q2: Find the error in the following piece of code:**

int n = 0;

While( n<10)

{

int a =n+2;

int b =a+n;

System.out.println(“a = ”+a);

n=5;

}

System.out.println(“a = “+a);

System.out.println(“b = “+b);

System.out.println(“n = “+n);

**Answer 2 :**

int n = 0;

While( n<10) //Here ‘W’ should be small not capital

{

int a =n+2;

int b =a+n;

System.out.println(“a = ”+a);

n=5; //Here n=5; will make code works for infinite time

} //Here curly brackets need to be after printing coloumns because variables a,b,c will be un defined

System.out.println(“a = “+a);

System.out.println(“b = “+b);

System.out.println(“n = “+n);

Code after solving the error and works fine:

int n = 0 ;

while( n < 10)

{

int a = n+2;

int b = a+n;

System.out.println("a = "+a);

System.out.println("a = "+a);

System.out.println("b = "+b);

System.out.println("n = "+n);

}

**Q3: In a SQL database there are three tables students, books and renting history**

* write a sql query to return (Student name, Book name and Renting date) to show the history of books renting by the students
* write a sql query to return (Student name, number of rented books) to list the students who rent more than one book.

|  |  |
| --- | --- |
| Student\_ID | Std\_Name |
| 1001 | Mohamed |

Table1:

Table2:

|  |  |
| --- | --- |
| Book Name | Book\_ID |
| 7 habits of highly effective people | 5001 |

Table3:

|  |  |  |
| --- | --- | --- |
| Student\_ID | Book\_ID | Rent\_Date |
| 1001 | 5001 | 12/03/2017 |

**Answer 3 :**

1. SElECT Table1.Std\_Name , Table2.Book Name , Table3.Rent\_Date

From (( Table3

INNER JOIN Table1 ON Table3.Student\_ID = Table1.Student\_ID

INNER JOIN Table2 ON Table3.Book\_ID = Table2.Book\_ID

|  |  |  |
| --- | --- | --- |
| Std\_Name | Book Name | Rent\_Date |
| Mohamed | 7 habits of highly effective people | 12/03/2017 |

**Result:**

1. SELECT Table1.Std\_Name , Count (Table3.Book\_ID) AS Number\_of\_rented\_books

From Table3

INNER JOIN Table1 ON Table1.Student\_ID =Table3.Student\_ID

GROUP BY Std\_Name ;

|  |  |
| --- | --- |
| Std\_Name | Number of rented books |
| Mohamed | 1 |

**Result:**

**Q4: Count Questions in Worksheet Automation Task**

An automation task is needed to simulate the search for a lesson on nagwa website then opening the lesson worksheet to count the number of questions in this worksheet.

Scenario Steps:

1. Open Nagwa website.
2. Choose a language to open the home page.
3. Use the search icon to start searching on Nagwa lessons.
4. Write any lesson name for example “addition” then search.
5. A list with all lessons in Nagwa that match this name will appear.
6. Click on 2nd lesson in the search results to open its home page.
7. Go to worksheet section then click preview button.
8. Worksheet home page will open then count number of questions displayed on it and print the count. (Bonus step but preferred to be done).

Recommended Tools Cucumber, Selenium, Java, Maven, Junit.

Inputs and Outputs values must not be hard codded in the script.

A documentation of the code workflow is mandatory.

It will be added value in case the development of test scenario is written using page object model.