

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.

Answer:

1.

Feature: Books download

As a user I want to check download behavior

Scenario: Verify that Anonymous user cannot download more than 3 books

Given App is opened as anonymous user on books page

When I download first book

And download second book

And download third book

And press download for the fourth book

Then I cannot download the fourth book and error message appears

2.

Feature: App performance

As a user I want to test app performance

Scenario: Verify that viewing the latest 10 books doesn’t exceed “X” second

while battery is low

Given battery is low

When I open app

Then The latest 10 books appear before “X” second

3.

Feature: Book sorting

As a user I want to check book sorting

Scenario: Verify that the sorting of the latest 10 books is correct

Given app is open

When the latest 10 books appear

Then the sorting of latest 10 books is correct

**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; //infinite loop

}

System.out.println(“a = “+a);

System.out.println(“b = “+b);

System.out.println(“n = “+n);

Answer:

The counter is set by 5 every iteration and “n” variable will be always smaller than 10, so that will lead to infinite loop,

We need to make counter like “n = n+1;” to exit the loop

**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:

1.

SELECT Table1.Std\_Name, Table2.Book\_Name, Table3.Rent\_Date

FROM Table1

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

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

2.

SELECT Table1.Std\_Name, count(Table3.Book\_ID)

FROM Table1

INNER JOIN Table3 ON Table1.Student\_ID = Table3.Student\_ID group by Table1.Std\_Name having count(Table3.Book\_ID) > 1;

**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.