

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.

**Given Anonymous user open the app**

**Then Anonymous user download three books**

**When Anonymous is trying to download 4th book**

**Then Anonymous couldn’t to download as Registered user**

1. You want to test the performance of application while the battery die.

**Given the mobile is 1% battery**

**Then Anonymous / registered user is opening the app**

**Then explore the app**

**When user opens book and reads it**

**Then Performance for the app should be the same as 100%**

1. You want to make sure that the sorting of the latest 10 books is correct.

**Given Anonymous / registered user is opening the app**

**Then the 10 books are Displaed**

**When checks the published date**

**Then the 1st book should be the newest book**

**Then checks that 10 books are displayed ordered by date DESC.**

**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);

**Ans2**: the above code will not be complied as a and b is defined entire the while loop and trying to print it out of scope s

**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

**SELECT STUDENT.Std\_Name, BOOKS.Book\_Name, RENTING\_HISTORY.Renting\_date**

**FROM ((STUDENT**

**INNER JOIN RENTING\_HISTORY ON STUDENT.Student\_ID = RENTING\_HISTORY.Student\_ID)**

**INNER JOIN BOOKS ON BOOKS.Book\_ID = Renting\_history.Book\_ID);**

* write a sql query to return (Student name, number of rented books) to list the students who rent more than one book.

**Select STUDENT.Std\_Name ,Count(RENTING\_HISTORY.Book\_ID)**

**from STUDENT**

**INNER JOIN RENTING\_HISTORY ON STUDENT.Student\_ID = RENTING\_HISTORY.Student\_ID**

**GROUP BY STUDENT.Std\_Name**

**HAVING COUNT(RENTING\_HISTORY.Book\_ID)>1;**

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

Table1: **students**

Table2: **books**

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

Table3: **renting history**

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

**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.