# COMP 10066 Software Quality and Testing Midterm Test – Fall 2020 Test Weight – 25%

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## Test Information

Exam Length: 2 hours

Total Marks: 48 marks

This exam contains 3 pages

This exam has 2 questions in total. Please ensure to complete all questions inside this word document.

If you have any questions or any issues arise please contact your lecture instructor

Karen Laurin ([karen.laurin@mohawkcollege.ca](mailto:karen.laurin@mohawkcollege.ca)) OR

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## Exam Rules

1. This exam is OPEN BOOK. Allowable resources include the Internet (including search engines), resource sites, textbooks and course notes, as well as assignments that you have completed for the course.
2. **This is an individual exam**. You are not permitted to communicate with anyone once the exam has started or share resources with anyone else. This restriction includes using email, text messaging or any other means.
3. **Turn-it-in will be used to validate the authenticity of your exam.**

## Submission Requirements

* You will submit the following to the Exam Submission Folder on MyCanvas:
  + A **HTML file** – the Katalon Recorder Test Suite
  + The exam **WORD document**, with your solutions filled in as required
* HTML / WORD Files received by email will NOT be marked

## Question 1 (8 marks)

Review the Website Specification provided on page 3 of this document.

Report any Specification Bugs found in the table below. You may add rows to the table if required.

|  |  |
| --- | --- |
| Error found in Specification | Solution to Error |
| The misunderstanding between contact page and about us page. Here about page gives information regarding the website to give users more insights and contact page should include email or ids or some contact information of the institution. | Either we can use contact page or about page or include contact information in the about page so that user can reach out the company. |
| More security needed on password.  If password is entered same as the user id than anyone can access it if he knows the user id. Different password than user id should be used. | We can give access to only specific type of passwords like use one character , one capital letter and one number. |
| It should be given logged in or logged out so that user can know whether he/she is able to see the options or not. | User: #userid and logged in. |
| In summary logs, in Monthly table shows the day column and in that there is the total of the records in that month. | Either total records via month should be given name of the column or the day column should be given the day selection option. |
| FAQ and directory have same function when there are opened. | They should be given different access. |
| FAQ – frequently asked concerns | It should be Frequently Asked Questions. |
| In Summary logs, Username is shown as just last 5 digits | It should be fixed and it showed show perfect 6 digits. |

## Question 2 (40 marks)

**Part A (28 marks)**

Using the provided Website Specification on page three (3) of this document, write a set of test cases using the Katalon Recorder to verify the functionality of the website at:

<https://csunix.mohawkcollege.ca/tooltime/comp10066/MID_20ALL>

It is your responsibility to define and create a single Test Suite which will contain all of the Test Cases as required to test the functionality of the website given above. All test cases created in the Katalon Recorder should also be recorded in the test case table provided below. You may add rows to the table if required.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case Name | Reason For Test | Expected Result | Observed Result | Pass / Fail |
| Test1 | If username allows characters or not | Wrong entry of password or userid | Wrong entry  Of password or userid | Pass |
| Test2 | If it gives access to the username and password if entered same and six digit | Logged in | Logged in | Pass |
| Test3 | If it gives access to the username and password if username and password are 6 digits but both different | Logged in | Wrong entry  Of password or userid | Fail |
| Test4 | If it Checks and verify my user id number | Checked successfully in summary logs | Checked successfully in summary logs | Pass |
| Test5 | If all options after logged in works correctly | Running successfully | Running successfully | Pass |
| Test6 | Checks if my userid is tracked by the perfect navigation in the table | Running successfully | Created error | Fail |
| Test7 | Checks whether the selected option from menu after log in have correct title | Verified title and same title | Different title still giving access | Fail |
| Test8 | Checks if the username is read perfectly six digits from the summary logs table | Verified perfectly 6 digits | Error | Fail |

**Part B (12 marks)**

If there are any issues (bugs) found within the testing above, record the bugs in the table provided below. Note it is NOT required to provide an additional supporting test case for the bugs found, the initial test case from Part A will be sufficient. You may add rows to the table if required.

|  |  |  |
| --- | --- | --- |
| Bug Number | Test Case Name | Bug Description |
| 1 | Test3 | In this we are not allowed to give more secure password which is a bug that can allow access to anyone who has the username because username and password are both same. |
| 2 | Test6 | There is a bug that Userid is not tracked perfectly on the given specific location and not verifying the text or the userid. |
| 3 | Test7 | A bug that is not verifying the title for the option we select from the menu. |
| 4 | Test8 | A bug is found in the summary logs table which only shows last 5 digits of the username and not all 6 digits .Thus text is not verified. |

## Website Specification

* The website contains three (3) public pages, which are the home page, the contact page and the login page.
* The website has been preconfigured with users. A user can login with the following information: username – last six digits of your student number, password – last six digits of your student number
* The status for whether the user is logged in or logged in is in the upper right hand corner of the website.
* After the user logs in, the website also contains a link for the user to log out
* Each user is granted administrative status, in which they can view the Summary Logs for the website. The Summary logs contains the fact that the user has logged in on the particular day.
* The website contains four Member Services Pages, listed as follows:
  + News page – the page the user is directed to upon login
  + Directory page – a premium company search page for members of the website
  + FAQ page – frequently asked concerns
  + View Summary Logs page
* The website also contains a link for the user to log out.

## Reference: Katalon Recorder Commands

Below is a list of some of the useful commands you may require for the Katalon Recorder

|  |  |
| --- | --- |
| Command | Description |
| verifyText | Verifies the text of the given element (target) |
| verifyNotText | Verifies the text of the given element does not contain the given value |
| verifyValue | Verifies whether the element (checkbox / radio button) value is “on” or “off” |
| verifyTitle | Verifies the title of the current page. |
| verifyVisible | Returns true if a specified element is visible, false otherwise. |
| goBack | Simulates the back button being pressed |
| type | Type the given value into the element |
| click | Clicks on a given element (link, button, checkbox or radio button) |