

## On the Exam Line

### Design Inspection, Code Inspection and Unit Tests Defects Log

Arka Acharya, Joyce Kao, Shivaganesh Balasundaram, Gunjan Gauri

#### Design Inspection Defect Log:

Product : On the Exam Line Design Inspection

Date: 22<sup>nd</sup> September, 2017

| Defect # | Description  | Severity | Correction  | Author   Moderator                    | Inspector   Recorder                    |
|----------|--|----------|---|---------------------------------------|---|
| 1        | When either password or username or both are incorrect, first error login has to be displayed then the login page again. It is just refreshing the login page. | 3        | Redirection to the error login page has been implemented which will then go back to login page.   | Arka Acharya   Gunjan Gauri           | Joyce Kao   Shivaganesh Balasundaram    |
| 2        | When logged in with the correct credentials, the log in page was being refreshed.  | 1        | The preliminary security measure is retrieving the incorrect information from the database. After retrieval of correct information, it started working. | Arka Acharya   Gunjan Gauri           | Joyce Kao   Shivaganesh Balasundaram    |
| 3        | While adding a chapter for a user, all chapters are displayed irrespective of whether or not the user already has access to it.                                | 2        | The chapters are cross referenced against the chapters the particular user has access to and only the non overlapping chapters are displayed.           | Arka Acharya   Joyce Kao              | Shivaganesh Balasundaram   Gunjan Gauri |
| 4        | After entering the new number of questions when editing a test, we are redirected to the modify page.  | 2        | Redirection was changed to the modify questions page so that the new questions could be entered and the existing questions could be changed.            | Joyce Kao   Arka Acharya              | Gunjan Gauri   Shivangesh Balasundram   |
| 5        | After putting the new time limit for the exam, it redirects to the admin home page.  | 3        | The redirect was changed to go to the modify test page with the appropriate test name in case there were more changes to be made.                       | Joyce Kao   Gunjan Gauri              | Arka Acharya   Shivangesh Balasundram   |
| 6        | On the Administrator page, selecting a category and clicking   | 1        | The redirect for the appropriate option was missing.  | Gunjan Gauri   Shivangesh Balasundram | Arka Acharya   Joyce Kao                |

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|   | submit does not redirect to the appropriate page.   |   |   |   |                                       |
| 7 | When the create user option is selected on the admin page and it is submitted , it takes the user to the wrong page | 1 | The link to the create user option was not provided. It was fixed by rectifying the link. | Joyce Kao   Shivangesh Balasundram      | Gunjan Gauri   Arka Acharya           |
| 8 | Selecting the change test name on the modify existing test page does not redirect the admin to the required page.   | 1 | The link was not provided to redirect to . This was rectified by inserting the link.      | Joyce Kao   Gunjan Gauri                | Arka Acharya   Shivangesh Balasundram |
| 9 | Selecting Existing User directs the page to add user page.  | 1 | Redirection was changed to the existing user page   | Shivaganesh Balasundaram   Arka Acharya | Joyce Kao   Gunjan Gauri              |

## Code Inspection Defect Log:

Product : On the Exam Line Code Inspection

Date: 22<sup>nd</sup> September, 2017

| Defect # | Description  | Severity | Correction  | Author   Moderator                 | Inspector   Recorder                    |
|----------|--|----------|---|------------------------------------|---|
| 1        | When all information is entered, if the username has a space or various special characters in it, the table name in the database does not match the actual username.                                   | 1        | Before creating a table in the database, the code checks for spaces and special characters and automatically gets rid of them.                                | Joyce Kao   Shivangesh Balasundram | Arka Acharya   Gunjan Gauri             |
| 2        | If one of the fields is left blank in the new user page, none of the information stored and the page is refreshed.   | 2        | The data entered will be stored and the page will refresh displaying the already stored information and asking for the rest.                                  | Joyce Kao   Shivangesh Balasundram | Gunjan Gauri   Arka Acharya             |
| 3        | After clicking the logout link, the user/admin can still access all the content without having to log in again.  | 1        | The loggedIn flag in the database was not being changed due to an error in the query. After fixing the query, the logout functionality started to work again. | Arka Acharya   Gunjan Gauri        | Joyce Kao   Shivangesh Balasundram      |
| 4        | When all information is entered, if the chapter name or test name has a space or various special characters in it, the table name in the database does not match the actual test name or chapter name. | 1        | Before creating a table in the database, the code checks for spaces and special characters and automatically gets rid of them.                                | Arka Acharya   Joyce Kao           | Shivaganesh Balasundaram   Gunjan Gauri |
| 5        | If one of the fields is left blank in the new test page, none of the   | 2        | The data entered will be stored and the page will refresh displaying the  | Arka Acharya   Joyce Kao           | Shivangesh Balasundram   Gunjan Gauri   |

|    |  |   |  |   |   |
|----|--|---|--|---|---|
|    | information stored and the page is refreshed.  |   | already stored information and asking for the rest.  |   |   |
| 6  | The test selected to be deleted shows up even after deletion.  | 1 | The SQL query was not being successfully executed as the name of the table had a spelling error. Once the spelling was fixed, it started to work.  | Shivaganesh Balasundaram   Gunjan Gauri | Joyce Kao   Arka Acharya                |
| 7  | When the create user option is selected on the admin page and it is submitted, it takes the user to the wrong page.  | 2 | The link to the create user option was not provided. It was fixed by rectifying the link.  | Joyce Kao   Arka Acharya                | Shivaganesh Balasundaram   Gunjan Gauri |
| 8  | When the existing user information is edited, the admin is redirected to the edit existing user page again without editing the database.   | 1 | There was an incorrect SQL query which was corrected to fix the issue.   | Shivaganesh Balasundaram   Joyce Kao    | Gunjan Gauri   Arka Acharya             |
| 9  | When the admin leaves the fields blank on the add user page, the details are stored as an empty string in the database and the user is never granted access because it does not match details in the database. | 1 | A condition that checks for the empty string was added which ensures that none of the fields are left empty and asks the user to re-enter details. | Gunjan Gauri   Shivangesh Balasundram   | Joyce Kao   Arka Acharya                |
| 10 | When the admin tries to delete existing user the user isn't deleted from the database.   | 1 | There was an incorrect SQL query which was corrected to fix the issue.   | Shivaganesh Balasundaram   Joyce Kao    | Arka Acharya   Gunjan Gauri             |
| 11 | On the change time limit page it accepts negative numbers.   | 1 | The number values when submitted is checked to be greater than 0 and then either stored or asked for again.  | Joyce Kao   Gunjan Gauri                | Arka Acharya   Shivangesh Balasundram   |

## Unit Testing Defect Log:

Date: 22<sup>nd</sup> September 2017

Author: Arka Acharya , Gunjan Gauri

Moderator: Joyce Kao, Shivaganesh Balasundaram

### A) Product : On the Exam Line unit testing - LOGIN PAGE

| Defect # | Description | Severity | Correction |
|----------|-------------|----------|------------|
|----------|-------------|----------|------------|

|   |   |   |  |
|---|---|---|--|
| 1 | <p><b>Input:</b> Correct username and password entered in the fields on the login page.</p> <p><b>Expected output:</b> Redirection to the appropriate user /admin page.</p> <p><b>Test Result :</b> The user is not given access and the login page is refreshed.</p> | 1 | The SQL query was accessing the wrong rows. Once this was fixed, it started to redirect to the correct page. |
|---|---|---|--|

### B) Product : On the Exam Line unit testing - NEW USER PAGE

| Defect # | Description   | Severity | Correction  |
|----------|---|----------|---|
| 1        | <p><b>Input:</b> Chapter is selected, the unique username, password and the real name are entered in the appropriate fields.</p> <p><b>Expected output:</b> Refreshed the new user page and all the details are stored in the respective tables in the database.</p> <p><b>Test Result :</b> The admin page refreshes and no information is stored in the database.</p> | 1        | The query statement was missing. Once the query statement was included and all the appropriate fields were put in, the data were started to get stored. |

### C) Product : On the Exam Line unit testing - NEW TEST PAGE

| Defect # | Description   | Severity | Correction  |
|----------|---|----------|---|
| 1        | <p><b>Input:</b> Correct chapter name, correct test name, correct no of questions and time limit are entered.</p> <p><b>Expected output:</b> Stores exam and redirects the page to "add question" page.</p> <p><b>Test Result :</b> Incorrect information is stored in the database</p> | 1        | Incorrect query statement. The wrong table was being accessed. Once corrected, the problem went away.   |
| 2        | <p><b>Input:</b> All questions are entered along with answers.</p> <p><b>Expected output:</b> Redirects to the add new test page and correct</p>  | 1        | The variables passing the values for the answers weren't being accessed in the code that was storing the information. Once those values were accessed and included in the query, all the information was successfully stored in the database. |

|  |   |  |  |
|--|---|--|--|
|  | information should be stored in the database.<br><br><b>Test Result :</b> Incorrect information is stored in the database |  |  |
|--|---|--|--|

#### D) Product : On the Exam Line unit testing - MODIFY TEST PAGE

| Defect # | Description   | Severity | Correction  |
|----------|---|----------|---|
| 1        | <p><b>Input:</b> After selecting change name of test, new unique name of test was entered.</p> <p><b>Expected output:</b> Stores and changes every occurrence of that test's name and redirects to the modify test page.</p> <p><b>Test Result :</b> Test name stored in the database, but not every occurrence was changed. Redirection was as expected.</p>   | 1        | As the test name comes up at multiple places, one of the tables where that test name came up was missed. Once this was corrected, the issue went away.  |
| 2        | <p><b>Input:</b> After selecting modify question and answers, appropriate changes were made and the submit button was clicked.</p> <p><b>Expected output:</b> New information stored in the database and then redirected to the modify test page.</p> <p><b>Test Result :</b> New questions were stored, but answers were missing. The redirection was as expected.</p>   | 1        | The variables passing the values for the answers weren't being accessed in the code that was storing the information. Once those values were accessed and included in the query, all the information was successfully stored in the database. |
| 3        | <p><b>Input:</b> After selecting modify number of questions, new number of questions was entered, new questions were entered.</p> <p><b>Expected Output:</b> New number of questions were saved, only the required number of additional spaces to be displayed, and the new questions will be stored.</p> <p><b>Test Result:</b> New number of questions were stored. One additional space was shown while entering new questions. New questions were stored.</p> | 1        | There was a mistake in initializing the loop counter. Once the counter initialization was fixed, the additional space went away.  |