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| TEST PLAN – MODULAR STUDY APPLICATION | Team 1: Kory Bennett / Brock Allton / Dylan Sawyer / Justin Casey / Dan Page / Cale Ward |

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Introduction:

The Modular Study System is a program that can be utilized by students at any level from grade school through college. The purpose is to allow the user, a student, to load practice test questions on each subject and then test themselves on those questions. The program will store the questions that are loaded, the questions that are asked, the answer given for those questions, and keep track of how many times the questions were answered correctly or incorrectly.

Testing Types and Testers:

Project lead will be conducting and system tests for our test cases.

|  |  |  |
| --- | --- | --- |
| Test | Testers | When |
| Integration Tests | Tech Members | During the completion of each section of code |
| System Tests | Project Lead/Tech Members | 01 MAR 2020 |
|  |  |  |

Risks and Issues:

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| --- | --- |
| Risk | Mitigation |
| Team member is unable to complete their assigned task | Other team members will step in and help |
| The project timeline will end before the project is completed | Priorities will be set by the Project Lead to meet certain benchmarks |
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Testing Objectives:

To determine any and all bugs associated with the software during execution.

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| --- | --- |
| Section | Goal |
| Database | Ensure test subjects and answers are stored in a table accessible from a Java application. |
| GUI | Ensure each button and field acts appropriate based on the users input and provides and accurate output for the user. |
| Middleman | Link the input from the User to the database to provide random questions for the GUI based on the Users input |

Revision History:

|  |  |  |  |
| --- | --- | --- | --- |
| Revision Number | Date | Author | Description |
| 1 | 27 Jan 2020 | K. Bennett | Initial Draft |
| 2 | 28 Jan 2020 | B. Allton | Added Items to the test plan |
| 3 | 29 Jan 2020 | K. Bennett | Added Content Intro |
| 4 | 29 Jan 2020 | C. Ward | Added Test Cases |
| 5 | 31 Jan 2020 | D. Sawyer | Added Test Cases |
| 6 | 1 Feb 2020 | B. Allton | Checked continuity between test cases |
| 7 | 1 Feb 2020 | J. Casey | Fixed Typos |
| 8 | 02 Feb 2020 | C. Ward | Added Testing Objectives, Risks, Testing Types, and Testers |
| 9 | 02 Feb 2020 | D. Page | Modified Test Case 1 for more depth |
|  |  |  |  |
|  |  |  |  |

Project Details:

|  |  |
| --- | --- |
| Components | Details |
| Project Name | Modular Study Application |
| Authors | Kory Bennett, Brock Allton, Cale Ward / Dan Page / Justin Casey |
| Testers |  |
| Testing Environment | Windows 10 Pro Build 1809 – 1909 Ubuntu 16.04 |
| Version | 1 |
| Description |  |

Test Cases:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case Number | Action | Expected Results | Actual Results | Pass? |
| 1 | Double click on icon to open application | Application opens and the user is prompted for a subject from a drop down menu and the number of questions they would like to be tested on |  |  |
| 2 | Choose History from the drop-down buttons to choose from. And type in 20 for the number of questions to be asked, click start | The current window closes and a new window opens. The new window has a question about the subject displayed and 4 options to choose an answer from |  |  |
| 3 | Do not chose any radio button (A, B, C, or D) and press submit | A popup should alert the user no choice has been selected. |  |  |
| 4 | Choose either A, B, C or D radio button to answer the question, click submit | The next questions should be displayed in the field to be answered. |  |  |
| 5 | Answer the requested amount of answers according to process in step 4. | The results of how many questions answered correctly should be displayed on the bottom panel, the text field should be empty, and the drop-down menu for the course to quiz on should reset to the default. |  |  |
| 6 | Select Math from the drop-down box. Select 100 questions to ask. | Error message should pop up stating that the number of questions to be asked exceeds the total number of available questions. |  |  |
| 7 | Keep Math selected, choose 20 questions to answer and click submit. | Math questions and multiple-choice answers should be displayed in text field in bottom panel. |  |  |
| 8 | Answer all 20 questions, and click submit. | Again, the results should be displayed in the bottom panel and the drop-down field at the top reset. |  |  |
| 9 | Select Geography from the drop down and 20 questions to answer | Geography questions and multiple-choice answers should display in the text field. |  |  |
| 10 | Answer all 20 questions, and click submit | The application will close and another window will show the results |  |  |
| 11 | The user selects restart | the application closes and a new window with the menu to select a subject opens to begin the test |  |  |
| 12 | User is in the middle of the test, switches focus to another application, then back to the test. | Test should remain active with no effect on scores or operability. |  |  |
| 13 | Application is minimized or resized. | Program should not crash and maintain full functionality in both cases of resizing or minimizing the window. | 13 | Application is minimized or resized. |
| 14 | Click on the Exit button or the x at the top right of the application | Application closes. |  |  |

Test Case 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Step | Action | Expected Results | Actual Results | Pass? |
| 1 | Double click on icon to open application | Application opens and the user is prompted for a subject from a drop down menu and the number of questions they would like to be tested on |  |  |
| 2 | Select a subject from the drop down menu | The menu drops down and allows a user to pick |  |  |
| 3 | Type in the “5” in the questions to be asked slot | The number is displayed in a text field for the user to see |  |  |
| 4 | Click start | The current window closes and a new window opens. The new window has a question about the subject and 4 options |  |  |
| 5 | Select an answer and click submit | Only one answer is selected and after submit is selected the application brings up the next question |  |  |
| 6 | Repeat step 5, 4 more times | The same outcome as step 5 is expected until the last question is submitted. The application will close and another window will show the results |  |  |
| 7 | The user selects restart | the application closes and a new window with the menu to select a subject opens to begin the test |  |  |
| 8 | The user closes the application by the “x” in the top right corner | The application closes |  |  |