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Test Summary Report

1. Purpose

This document explains the activities performed as part of the testing of the Amazon Alexa O & M trivia game.

1. Application Overview

This application is a trivia game. Players are asked a series of questions and their answers are evaluated as either correct or incorrect. The scores are kept and at the conclusion a winner is announced.

1. Testing Scope
2. In-scope:

* Main Menu State
* Gameplay State
* Help State
* State change: Main Menu to Help
* State change: Main Menu to Gameplay
* State change: Gameplay to Help

1. Out-of-scope:

* Performance testing was not done for this application

1. Items not tested:

* We could not test the application on different devices, so we weren’t able to test against different software like the Amazon Show.

1. Metrics

Test Cases Passed vs Failed:

|  |  |  |  |
| --- | --- | --- | --- |
| Test Cases Planned | Test Cases Executed | Test Cases Passed | Test Cases Failed |
| 25 | 31 | 25 | 6 |
|  |  |  |  |

1. Types of testing performed

Game flow testing:

These tested the flow of the game to see if a complete game could be played with both correct and incorrect answers.

Score testing:

These tested whether the score was being kept correctly.

Game State testing:

These tested the game’s ability to reach all states.

Game State Change testing:

These tested the data persistence between state changes

1. Test Environment and tools

* Amazon Echo
* Amazon Dot
* Amazon lambda
* AWS

1. Lessons learnt

|  |  |  |
| --- | --- | --- |
|  | Issues Faces | Solution |
|  | Had to manually resubmit any changes to the code. The process was time consuming due to AWS procedures. | Created a script to automatically perform the necessary steps to resubmit. |
|  | Non-published applications are restricted. This includes the ability to test on more than one device at a time. | We set up multiple accounts with the code which allowed all 3 members to test individually. |

1. Best practices.

* Use scripts to expedite the resubmission process when making changes to the code.
* Use the testing environment Amazon provides to published applications.

1. Exit criteria:

All test cases should be executed – yes

All failed tests should be verified and corrected – yes

1. Conclusion:

As the Exit criteria was met and satisfied as mentioned in Section 9, this application is suggested to ‘Go Live’ by the Testing team. Appropriate User/Business acceptance testing should be performed before ‘Go Live’