Test plan

Smarter Balanced Assessment Consortium Test Delivery System

Component: Test Delivery System

Purpose: Smarter Balanced Task Order 24

TDS Update for NFB Requests

Revision History

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| --- | --- | --- | --- |
| **Revision Description** | **Author** | **Reviewer** | **Date** |
| 0.1 – First Draft | Peter Tereshchenko | Rami Levy | Dec. 12, 2016 |
| 0.2 – Second Draft | Peter Tereshchenko | Rami Levy | Dec. 14, 2016 |
| 1.0 – Final version | Peter Tereshchenko | Rami Levy | Dec. 14, 2016 |

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# Introduction and System Background

The purpose of this document is to define testing the scope and approach for Task Order 24 (TO-24). This task order seeks to upgrade the Open Source TDS student interface to have a more consistent UI. These changes should provide improved support for Braille accommodations and better accessibility.

## 1.1 References

|  | **Reference** | **Location** | **Version** |
| --- | --- | --- | --- |
| 1 | TDS TO-24-TestCases.xlsx | TDS source code repository documentation folder | 1.0 |
| 2 | Delivery-TDS-Task Order 24.docx | TDS source code repository documentation folder | 1.0 |
| 3 | SB-1505-Testing comparison.docx | TDS source code repository documentation folder | 1.0 |

Table 1: References

# Testing Scope

The Test Delivery System (TDS) has two components: “/student” and “/proctor”. To test TO-24, testers will have to use both components, but because the majority of the code changes were made to improve the student experience, most testing efforts should be focused on “/student”.

The student part of TDS is developed to support multiple devices, operating systems and browsers. Available resources don’t allow testing of all devices, so the scope of testing should be limited. To do so, only the available most popular platforms were covered in this test plan.

|  | **Operating system** | **OS version** | **Browser** | **Browser version** |
| --- | --- | --- | --- | --- |
| 1 | Android | 4.4.2 | Secure Browser | 2.1 |
| 2 | Chrome OS | 54 | Secure Browser | 2.8 |
| 3 | Fedora | 23 | Secure Browser | 8.1 |
| 4 | Fedora | 23 | Firefox | 49.0.2 |
| 5 | IOS | 8.1.2 | Secure Browser | 3.4 |
| 6 | MacOS | 10.10.5 | Secure Browser | 9 |
| 7 | MacOS | 10.12 | Safari | 10 |
| 8 | MacOS | 10.12 | Secure Browser | 9.0 |
| 9 | Windows | 7 | Firefox | 48.0.2 |
| 10 | Windows | 7 | Chrome | 54.0.2840.99 m |
| 11 | Windows | 7 | Secure Browser | 8.1 |
| 12 | Windows | 7 | Secure Browser | 9.0 |

Table 2: Covered platforms

There are more than 3000 test cases in the complete set of /student application tests; checking all of them is not possible with the available resources, so a subset of test cases designed to cover only TO-24-related changes was created. Additionally, testers will have to perform a smoke check of basic TDS functionality. Test cases for smoke test will not be described in this document.

# Testing Approach

There are six bugs created to summarize changes related to TO-24. These bugs are related to different sections of the application and because of that require different testing approach.

## 3.1 SB-1503: Documentation and Configuration changes for NFB (Help pages update)

This bug covers changes in help pages. The help page is shown once before the start of the test, and is also accessible inside the test. This is basic functionality which can be easily tested, and thus should be tested on all specified platforms. There are 3 available help pages: one for English language, one for Spanish and one for streamlined mode (will be in English no matter what language was selected). Three test cases were created, one per page plus one additional test cases for English language using not guest student and session. The last test case doesn’t have to be performed on each platform.

## 3.2 SB-1504: Improve speed of navigation when moving to the next item after answering last question on a page

This bug was created to add a new navigation button for streamlined mode users, who mainly access the application using a keyboard. Testing is limited to one test case per platform. Devices with Android and iOS operating systems are excluded due to the lack of a hard keyboard.

## 3.3 SB-1505: Restructure login, test, and review shells to provide an ordered header structure for each page. Reorder the action buttons so that the positive action always comes first.

Changes related to this bug significantly modify the Student interface. SB-1505-Testing comparison.docx document was created to let testers verify each change. Some changes were made to Text-to-Speech feature which is only available on Secure Browsers. Because of this, for Firefox, Chrome and Safari browsers only part of the changes can be verified.

## 3.4 SB-1506: [Audio for ELA Test - All computer sounds muted. Need to implement intelligent muting as per proprietary system](https://airsbac.atlassian.net/browse/SB-1506)

This bug was created specifically for JAWS (Job Access With Speech) application users. Due to limited access to JAWS application only Windows 7 with Secure Browser 9 will be covered. Also, testing of this bug requires configuration changes in TDS Database.

## 3.5 SB-1508: [Allow registration packages to bypass situation where no Test Type exists, if needed.](https://airsbac.atlassian.net/browse/SB-1508) And SB-1509: [Remove unused dependencies](https://airsbac.atlassian.net/browse/SB-1509)

Specific testing of these bugs is out of scope, although will be partially covered by smoke testing.

# Environment set up

Not all affected features are available within a particular test. For example, Spanish language is not available for ELA assessments. Also, it is important for smoke test to have a variety of types of questions and assessments. To provide that variety, testing was performed on set of G3-11 practice and training tests. Some of these tests' default configurations was modified for SB-1506 testing.

For non-guest testing information related to users and students should exist in Administration and Registration (ART) component.

To perform testing of bug SB-1506, at least 3 tests need to have updated parameters. Details with parameters types and values are described in the Task Order Documentation. Note that although parameters can be specified for all 3 currently available languages (ENU, ENU-Braille, and Spanish), these parameters are designed only for Braille related languages. Because of that, the system will not adjust its behavior correctly if these new parameters are applied to ENU or Spanish versions of the tests.