**Smarter Balanced Assessment Consortium**

**Secure Browser**

**TEST PLAN**

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1. **Introduction**

The Test Plan has been created to communicate the test approach to team members. It includes the objectives, scope, schedule, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

## Objectives

Develop, host and maintain site for vendors using other browsers to evaluate the suitability of the browser for smart assessments. Test existing and new Secure-Browser-related APIs.

The testing team is responsible for testing the APIs and ensuring that they meet the expected results provided by the Development team. In sprint 1 security related APIs will be tested. Must have functionality is considered more important than the delivery date in this project.

## Team Members

|  |  |
| --- | --- |
| **Resource Name** | **Role** |
| Dillom Bahta | QA Analyst |
| Ida Robert | QA Analyst |
| Sukhraj Singh | QA Analyst |
| Kanwardeep Singh | QA Analyst |

1. **Scope**

The initial Sprint will include all ‘must have’ requirements. These and any other requirements that get included must all be tested. At the end of Sprint 1, a tester must be able to:

1. Test the automated API’s on all Open Source SB and non-SBs.
2. TTS manual API checks including volume, pitch, rate, voices (get voices and get current voice), status (play/pause), and speech all OS SB and non-SBs.
3. Test will return true/false values
4. **Assumptions/ Risks**
   1. Assumptions

This section lists assumptions that are made specific to this project.

* 1. Dev team is responsible for any changes within the sprint
  2. Testing team will be given enough testing time within a sprint where they can log bugs and retest the fixes
  3. Risks

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Risk | Impact | Trigger | Mitigation Plan |
| 1 | Schedule Risk– Ramp Up tasks, training, and communication with strict timeline in mind. | High | Requirements inflation, changes in timeline, QA members not available. | Daily delegation of Secure Browser QAs to focus primarily on SBAC project so a balance is struck between new project and ongoing issues. Strong communication between PM/QAs. |
| 2 | Technical Risk – Can we ensure feasibility of all requirements across the different interfaces/platforms? | Medium | High volume of unexpected results, sudden change in the software architecture. | Assumptions validated early, backlog prioritized, consistent testing and retesting of features. |
| 3 | Business Risk – All the costs associated with a delayed or defective product. | High | Sprint timelines not being met, deliverable dates being moved up, a new feature desired or serious bug found late in the cycle. | Costs, resources, and benchmark dates constantly being revisited and being deemed reasonable. |

1. **Test Approach**

The project is using an agile approach, with 2 week sprints. At the end of each 2 week sprint requirements identified for that iteration will be tested and delivered. Exploratory testing will play a large part of the testing as the team new to this layout and will be learning as they go.

1. **Test Environment**

Testing will be done on the custom URLs provided by Development team.

1. **Milestone/Deliverables**
   1. Test Schedule

The initial test schedule follows……….

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning | 1/17 | 1/19 |  |  |
| Review Requirements documents |  |  |  |  |
| Create initial test estimates |  |  |  |  |
| Staff and train new test resources |  |  |  |  |
| First deploy to QA test environment | 1/20 | 1/31 |  |  |
| Functional testing – Sprint 1 | 1/17 | 1/31 |  |  |
| Sprint 1 deploy to QA test environment |  |  |  |  |
| Resolution for open defects and final build testing | 1/28 | 1/28 |  |  |
| Deploy to Staging environment |  |  |  |  |
|  |  |  |  |  |
| Task Name | Start | Finish | Effort | Comments |
| Test Planning | 2/1 | 2/15 |  |  |
| Review Requirements documents | 2/1 |  |  |  |
| Create initial test estimates | 2/2 |  |  |  |
| Staff and train new test resources |  |  |  |  |
| First deploy to QA test environment | 2/8 | 2/15 |  |  |
| Functional testing – Sprint 2 | 2/8 | 2/15 |  |  |
| Sprint 2 deploy to QA test environment |  |  |  |  |
| Resolution for open defects and final build testing | 2/15 | 2/15 |  |  |
| Deploy to Staging environment |  |  |  |  |

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| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning | 2/16 | 2/17 |  |  |
| Review Requirements documents |  |  |  |  |
| Create initial test estimates |  |  |  |  |
| Staff and train new test resources |  |  |  |  |
| First deploy to QA test environment | 1/18 | 2/28 |  |  |
| Functional testing – Sprint 3 | 1/17 | 1/31 |  |  |
| Sprint 2 deploy to QA test environment |  |  |  |  |
| Functional testing – Sprint 3 | 2/16 | 2/28 |  |  |
| Resolution for open defects and final build testing |  |  |  |  |
| Deploy to Staging environment |  |  |  |  |
| Performance testing |  |  |  |  |
| Release to Production | 8/1/2017 |  |  |  |

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| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning | 3/1 | 3/3 |  |  |
| Review Requirements documents | 3/1 | 3/14 |  |  |
| Create initial test estimates | 3/1 |  |  |  |
| Staff and train new test resources |  |  |  |  |
| First deploy to QA test environment | 3/6 | 3/14 |  |  |
| Functional testing – Sprint 4 | 3/8 | 3/14 |  |  |
| Sprint 4 deploy to QA test environment |  |  |  |  |
| Functional testing – Sprint 4 | 3/6 | 3/14 |  |  |
| Resolution for open defects and final build testing |  |  |  |  |
| Deploy to Staging environment |  |  |  |  |
| Performance testing |  |  |  |  |
| Release to Production | 8/1/2017 |  |  |  |
|  |  |  |  |  |
| Task Name | Start | Finish | Effort | Comments |
| Test Planning | 3/15 | 3/27 |  |  |
| Review Requirements documents | 3/15 | 3/27 |  |  |
| Create initial test estimates | 3/15 |  |  |  |
| Staff and train new test resources |  |  |  |  |
| First deploy to QA test environment | 3/17 | 3/27 |  |  |
| Functional testing – Sprint 5 | 3/17 | 3/27 |  |  |
| Resolution for open defects and final build testing | 3/27 | 3/27 |  |  |
| Performance testing |  |  |  |  |
| Release to Production | 8/1/2017 |  |  |  |

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| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning | 3/29 | 3/31 |  |  |
| Review Requirements documents | 3/29 | 3/30 |  |  |
| Create initial test estimates | 3/30 |  |  |  |
| Staff and train new test resources |  |  |  |  |
| First deploy to QA test environment |  |  |  |  |
| Functional testing – Sprint 6 |  |  |  |  |
| Sprint 6 deploy to QA test environment |  |  |  |  |
| Functional testing – Sprint 6 |  |  |  |  |
| Resolution for open defects and final build testing |  |  |  |  |
| Deploy to Staging environment |  |  |  |  |
| Performance testing |  |  |  |  |
| Release to Production | 8/1/2017 |  |  |  |

* 1. Deliverable

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **For** | **Date / Milestone** |
| Test Plan | Project Manager | 2/ 13 |
| Test Results | Project Manager | Every 2 weeks |
| Test Status report | Project Manager , QA | Every 2 weeks |