Revised Self-Report Assessment of

Functional Visual Performance

(R-SRAFVP) Application

Testing Specification

Version 1.0

Kirk Hedlich

Dr. Byron DeVries

CIS693 Final Project, Fall 2021

Grand Valley State University

Table of Contents

[Purpose 4](#_Toc89890956)

[Unit Test Coverage 4](#_Toc89890957)

[Functional Test Coverage 4](#_Toc89890958)

[User Acceptance Test Coverage 4](#_Toc89890959)

[Functional Testing – General Requirements 5](#_Toc89890960)

[Test Case 1: Check that the application is available on the internet 5](#_Toc89890961)

[Test Case 2: Check that the application has a splash screen and identification is visible to the user 5](#_Toc89890962)

[Test Case 3: Check the active assessment is internet accessible 6](#_Toc89890963)

[Test Case 4: Check the active assessment is available offline 7](#_Toc89890964)

[Test Case 5: Check logged in functionality is not available offline 8](#_Toc89890965)

[Test Case 6: Check the application displays properly on an Android phone using Google Chrome browser 9](#_Toc89890966)

[Test Case 7: Check the application displays properly on an iOS phone using Apple Safari browser 10](#_Toc89890967)

[Test Case 8: Check the application displays properly on an Android tablet using Google Chrome browser 11](#_Toc89890968)

[Test Case 9: Check the application displays properly on an iOS tablet using Apple Safari browser 12](#_Toc89890969)

[Test Case 10: Check the application displays properly on a computer using Google Chrome browser 13](#_Toc89890970)

[Test Case 11: Check the application displays properly on a computer using Microsoft Edge browser 14](#_Toc89890971)

[Test Case 12: Check the application displays properly on a computer using Apple Safari browser 15](#_Toc89890972)

[Functional Testing – Functional Requirements 16](#_Toc89890973)

[Test Case 13: Check data is clear on startup and cleared on shutdown for a Guest user 16](#_Toc89890974)

[Test Case 14: Check data is clear on startup and cleared on shutdown for a logged in user 18](#_Toc89890975)

[Test Case 15: Check resetting the active assessment 20](#_Toc89890976)

[Test Case 16: Check exporting the active assessment 21](#_Toc89890977)

[Test Case 17: Check saving the active assessment as a logged in user 22](#_Toc89890978)

[Test Case 18: Check recalling a saved assessment as the active assessment 23](#_Toc89890979)

[Test Case 19: Check updating a saved assessment 24](#_Toc89890980)

[Functional Testing – Assessment & Scoring Requirements 26](#_Toc89890981)

[Test Case 20: Check the active assessment for content 26](#_Toc89890982)

[Test Case 21: Check the active assessment for data entry 28](#_Toc89890983)

[Test Case 22: Check the active assessment for required fields 30](#_Toc89890984)

[Test Case 23: Check the active assessment help information 31](#_Toc89890985)

[Test Case 24: Check the active assessment scoring 32](#_Toc89890986)

[Functional Testing – Assessment Output Requirements 34](#_Toc89890987)

[Test Case 25: Check exporting the active assessment as a PDF for data correctness 34](#_Toc89890988)

[Test Case 26: Check exporting the active assessment as a CSV for data correctness 37](#_Toc89890989)

[Functional Testing – Help Requirements 40](#_Toc89890990)

[Test Case 27: Check Help pages are available to a Guest user 40](#_Toc89890991)

[Test Case 28: Check Help pages are available to a Guest user 41](#_Toc89890992)

[Test Case 29: Check version information for the application 42](#_Toc89890993)

[Test Case 30: Check US HHS Privacy Rule information for the application 43](#_Toc89890994)

[Test Case 31: Check US HHS Security Rule information for the application 44](#_Toc89890995)

[Functional Testing – Security/Privacy 45](#_Toc89890996)

[Test Case 32: Check Login using a Google account 45](#_Toc89890997)

[Test Case 33: Check Login using a Facebook account 46](#_Toc89890998)

[Test Case 34: Check Login using a Firebase account 47](#_Toc89890999)

[User Acceptance Testing 48](#_Toc89891000)

[Phone Workflow Scenario 48](#_Toc89891001)

[Tablet Workflow Scenario 49](#_Toc89891002)

[Computer Workflow Scenario 50](#_Toc89891003)

# Purpose

This document is intended to cover the different types of testing (unit, functional, user) to ensure the R-SRAFVP application is built to requirements and ready for production.

## Unit Test Coverage

Unit testing coverage is placed with the code.

## Functional Test Coverage

Functional testing provides test cases to validate requirements as described in the Requirements Specification and verify functionality as design in the UI/UX Specification and Wireframes documentation. Reference the Requirements Specification for full descriptions, UI/UX Specification for complete visual.

## User Acceptance Test Coverage

User Acceptance Testing provides test cases to validate requirements based on the user experience and expectations for what the application must be able to do. Reference the Requirements Specification for better understanding for the goals and focus of the application.

# Functional Testing – General Requirements

## Test Case 1: Check that the application is available on the internet

* Requirement reference: GR1
* Precondition(s): The user’s device has access to the internet and is online

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address | Verify the application splash page is shown |  |
| Navigate to the application’s main page | * Verify the user can get to the main page of the application * Verify additional functionality is available to the user (e.g., buttons that are active, etc.) |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 2: Check that the application has a splash screen and identification is visible to the user

* Requirement reference: GR5
* Precondition(s): The user’s device has access to the internet and is online

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address | Verify the application splash page is shown |  |
| Check the splash page of the application | Verify the application splash page shows   * The name of the application (R-SRAFVP) * The version of the application * The latest release date of the application |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 3: Check the active assessment is internet accessible

* Requirement reference: GR1
* Precondition(s): The user’s device has access to the internet and is online

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessment page | Verify the assessment is reset   * Entry fields contain no data * Entry fields show suggested answers * Questions show default answers * Scoring is available * Scoring is calculated to default answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 4: Check the active assessment is available offline

* Requirement reference: GR2
* Precondition(s): The user’s device is offline from internet access

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessment page | Verify the assessment is reset   * Entry fields contain no data * Entry fields show suggested answers * Questions show default answers * Scoring is available * Scoring is calculated to default answers |  |
| Create an assessment   * Enter data into 1 field * Answer 1 question * Enter data into 1 comment field * Check scoring | Verify the user can create an assessment   * Data entered is scored correctly |  |
| Export the assessment | Verify the user can export the assessment |  |
| Reset the assessment | Verify the assessment is reset   * Entry fields contain no data * Entry fields show suggested answers * Questions show default answers * Scoring is available * Scoring is calculated to default answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 5: Check logged in functionality is not available offline

* Requirement reference: GR2
* Precondition(s): The user’s device has access to the internet and is online

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Change the device to be offline |  |  |
| Navigate to My Assessments page | Verify the My Assessments page shows the user a message indicating no assessments are available |  |
| Navigate to the active assessment and attempt to save the assessment | Verify the assessment can’t be saved |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 6: Check the application displays properly on an Android phone using Google Chrome browser

* Requirement reference: GR3, GR4
* Precondition(s):
* Use an Android phone with 360px display width (emulation is acceptable)
* The user’s device has access to the internet and is online
* Use Google Chrome browser for this test

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Navigate to all pages of the application   * Main page * Login page * About Application page * About RSRAFVP page * About Security Rule page * About Privacy Rule page * Contact Us page * Active Assessments page * Assessments Help page * My Assessments page | Verify each page display without errors:   * The page shows without errors * The page elements seem reasonable in style and formatting * The page elements don’t overlap * The page elements are not misaligned * The page elements expand/contract as expected * The answer buttons show answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 7: Check the application displays properly on an iOS phone using Apple Safari browser

* Requirement reference: GR3, GR4
* Precondition(s):
* Use an iOS phone with 360px display width (emulation is acceptable)
* The user’s device has access to the internet and is online
* Use Apple Safari browser for this test

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Navigate to all pages of the application   * Main page * Login page * About Application page * About RSRAFVP page * About Security Rule page * About Privacy Rule page * Contact Us page * Active Assessments page * Assessments Help page * My Assessments page | Verify each page display without errors:   * The page shows without errors * The page elements seem reasonable in style and formatting * The page elements don’t overlap * The page elements are not misaligned * The page elements expand/contract as expected * The answer buttons show answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 8: Check the application displays properly on an Android tablet using Google Chrome browser

* Requirement reference: GR3, GR4
* Precondition(s):
* Use an Android tablet with 768px display width (emulation is acceptable)
* The user’s device has access to the internet and is online
* Use Google Chrome browser for this test

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Navigate to all pages of the application   * Main page * Login page * About Application page * About RSRAFVP page * About Security Rule page * About Privacy Rule page * Contact Us page * Active Assessments page * Assessments Help page * My Assessments page | Verify each page display without errors:   * The page shows without errors * The page elements seem reasonable in style and formatting * The page elements don’t overlap * The page elements are not misaligned * The page elements expand/contract as expected * The answer buttons show answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 9: Check the application displays properly on an iOS tablet using Apple Safari browser

* Requirement reference: GR3, GR4
* Precondition(s):
* Use an iOS tablet with 768px display width (emulation is acceptable)
* The user’s device has access to the internet and is online
* Use Apple Safari browser for this test

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Navigate to all pages of the application   * Main page * Login page * About Application page * About RSRAFVP page * About Security Rule page * About Privacy Rule page * Contact Us page * Active Assessments page * Assessments Help page * My Assessments page | Verify each page display without errors:   * The page shows without errors * The page elements seem reasonable in style and formatting * The page elements don’t overlap * The page elements are not misaligned * The page elements expand/contract as expected * The answer buttons show answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 10: Check the application displays properly on a computer using Google Chrome browser

* Requirement reference: GR3, GR4
* Precondition(s):
* Use a computer with 1280px display width (emulation is acceptable)
* The user’s device has access to the internet and is online
* Use Google Chrome browser for this test

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Navigate to all pages of the application   * Main page * Login page * About Application page * About RSRAFVP page * About Security Rule page * About Privacy Rule page * Contact Us page * Active Assessments page * Assessments Help page * My Assessments page | Verify each page display without errors:   * The page shows without errors * The page elements seem reasonable in style and formatting * The page elements don’t overlap * The page elements are not misaligned * The page elements expand/contract as expected * The answer buttons show answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 11: Check the application displays properly on a computer using Microsoft Edge browser

* Requirement reference: GR3, GR4
* Precondition(s):
* Use a computer with 1280px display width (emulation is acceptable)
* The user’s device has access to the internet and is online
* Use Microsoft Edge browser for this test

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Navigate to all pages of the application   * Main page * Login page * About Application page * About RSRAFVP page * About Security Rule page * About Privacy Rule page * Contact Us page * Active Assessments page * Assessments Help page * My Assessments page | Verify each page display without errors:   * The page shows without errors * The page elements seem reasonable in style and formatting * The page elements don’t overlap * The page elements are not misaligned * The page elements expand/contract as expected * The answer buttons show answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 12: Check the application displays properly on a computer using Apple Safari browser

* Requirement reference: GR3, GR4
* Precondition(s):
* Use a computer with 1280px display width (emulation is acceptable)
* The user’s device has access to the internet and is online
* Use Apple Safari browser for this test

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Navigate to all pages of the application   * Main page * Login page * About Application page * About RSRAFVP page * About Security Rule page * About Privacy Rule page * Contact Us page * Active Assessments page * Assessments Help page * My Assessments page | Verify each page display without errors:   * The page shows without errors * The page elements seem reasonable in style and formatting * The page elements don’t overlap * The page elements are not misaligned * The page elements expand/contract as expected * The answer buttons show answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

# Functional Testing – Functional Requirements

## Test Case 13: Check data is clear on startup and cleared on shutdown for a Guest user

* Requirement reference: FR1, FR2, FR4, FR6, FR7
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application | * Verify the session storage for the website is clear (does not exist) * Verify the Assessment object does not exist |  |
| Navigate to the Active Assessment page | * Verify the session storage has been initialized * Verify the Assessment object has been created |  |
| Change some of the assessment fields and score the assessment   * Enter a few answers * Enter a few comments * Navigate to the score tab | * Verify the session storage has been updated for answers, comments and scores * Verify the Assessment object has been updated for answers, comments and scores |  |
| Exit the application, website and browser   * DO NOT CLEAR WEB CACHE |  |  |
| * Open the browser * Navigate to the application’s web address, * Navigate to the main page of the application | * Verify the session storage for the website is clear (does not exist) * Verify the Assessment object does not exist |  |
| Navigate to the main page of the application | * Verify the session storage for the website is clear (does not exist) * Verify the Assessment object does not exist |  |
| Navigate to the Active Assessment page | * Verify the session storage has been initialized * Verify the Assessment object has been created * Verify session storage has NOT been duplicated * Verify the Assessment object has NOT been duplicated |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 14: Check data is clear on startup and cleared on shutdown for a logged in user

* Requirement reference: FR1, FR2, FR3, FR4, FR5, FR6, FR7
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use email and password login | Verify the user is logged in |  |
| Navigate to the Active Assessment page | * Verify the session storage has been initialized * Verify the Assessment object has been created |  |
| Change some of the assessment fields and score the assessment   * Enter a few answers * Enter a few comments * Navigate to the score tab | * Verify the session storage has been updated for answers, comments and scores * Verify the Assessment object has been updated for answers, comments and scores |  |
| Exit the application, website and browser   * DO NOT CLEAR WEB CACHE |  |  |
| * Open the browser * Navigate to the application’s web address, * Navigate to the main page of the application | * Verify the session storage for the website is clear (does not exist) * Verify the Assessment object does not exist |  |
| Navigate to the main page of the application | * Verify the user is NOT logged in * Verify the session storage for the website is clear (does not exist) * Verify the Assessment object does not exist |  |
| Navigate to the Active Assessment page | * Verify the session storage has been initialized * Verify the Assessment object has been created * Verify session storage has NOT been duplicated * Verify the Assessment object has NOT been duplicated |  |
| Login to the application  Use email and password login | Verify the user is logged in |  |
| Change some of the assessment fields and score the assessment   * Enter a few answers * Enter a few comments * Navigate to the score tab | * Verify the session storage has been updated for answers, comments and scores * Verify the Assessment object has been updated for answers, comments and scores |  |
| Logout of the application | Verify the user is logged out |  |
| Navigate to the main page of the application | * Verify the session storage for the website is clear (does not exist) * Verify the Assessment object does not exist |  |
| Navigate to the Active Assessment page | * Verify the session storage has been initialized * Verify the Assessment object has been created * Verify session storage has NOT been duplicated * Verify the Assessment object has NOT been duplicated |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check resetting the active assessment

* Requirement reference: FR5, FR8, FR10
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application | * Verify the session storage for the website is clear (does not exist) * Verify the Assessment object does not exist |  |
| Navigate to the Active Assessment page | * Verify the session storage has been initialized * Verify the Assessment object has been created |  |
| Change some of the assessment fields and score the assessment   * Enter a few answers * Enter a few comments * Navigate to the score tab | * Verify the session storage has been updated for answers, comments, and scores * Verify the Assessment object has been updated for answers, comments, and scores |  |
| Reset the Active Assessment | * Verify the session storage has been initialized * Verify the Assessment object has been created * Verify any previously updated fields are now initialized with default answers |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check exporting the active assessment

* Requirement reference: FR9
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Navigate to the Active Assessment page |  |  |
| Export the Active Assessment as a PDF | Verify all data in the PDF matches the assessment on screen |  |
| Export the Active Assessment as a CSV | Verify all data in the CSV matches the assessment on screen |  |
| Make minimal changes to the Active Assessment   * Enter one header field * Enter one answer * Enter one comment * Navigate to the score tab |  |  |
| Export the Active Assessment as a PDF | Verify all data in the PDF matches the assessment on screen |  |
| Export the Active Assessment as a CSV | Verify all data in the CSV matches the assessment on screen |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check saving the active assessment as a logged in user

* Requirement reference: FR11, FR19, DR1
* Precondition(s):
* Two test accounts are available in the system (Test Account 1 = TstAcct1, Test Account 2 = TstAcct2)
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessment page | Verify the SAVE button is inactive because the user is not logged in. |  |
| Login to the application with <TstAcct1> | Verify the user is logged in |  |
| Navigate to the Active Assessment page | Verify the SAVE button is active |  |
| Save the Active Assessment | * Verify the assessment was saved to the database * Verify the data in the database matches the assessment on screen. |  |
| Navigate to the My Assessments Listing page | Verify the saved assessment is listed on the page |  |
| Logout of the application | Verify the user is logged out |  |
| Navigate to the Active Assessment page | Verify the SAVE button is inactive because the user is not logged in. |  |
| Login to the application with <TstAcct2> | Verify the user is logged in |  |
| Navigate to the Active Assessment page | Verify the SAVE button is active |  |
| Navigate to the My Assessments Listing page | Verify the saved assessment is NOT listed on the page |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check recalling a saved assessment as the active assessment

* Requirement reference: FR12, DR4
* Precondition(s):
* Two test accounts are available in the system (Test Account 1 = TstAcct1, Test Account 2 = TstAcct2)
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* TstAcct1 has two saved assessments available for recall, both must be different (answers, comments, scores, etc.)

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Login to the application with <TstAcct1> | Verify the user is logged in |  |
| Navigate to the My Assessments Listing page | Verify the saved assessment is listed on the page |  |
| Recall a saved assessment |  |  |
| Navigate to the Active Assessments page | * Verify the saved assessment has been made active * Verify the session storage has been updated with the saved answers, comments and scores * Verify the Assessment object has been updated with the saved answers, comments and scores |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check updating a saved assessment

* Requirement reference: FR13
* Precondition(s):
* Two test accounts are available in the system (Test Account 1 = TstAcct1, Test Account 2 = TstAcct2)
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* TstAcct1 has two saved assessments available for recall, one is an INITIAL assessment, one is a PROGRESS assessment, both must be different (answers, comments, scores, etc.)

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Login to the application with <TstAcct1> | Verify the user is logged in |  |
| Navigate to the My Assessments Listing page | Verify the saved assessment is listed on the page |  |
| Update the INITIAL saved assessment |  |  |
| Navigate to the Active Assessments page | * Verify the saved assessment has been made active * Verify the session storage has been updated with the saved answers, comments and scores * Verify the Assessment object has been updated with the saved answers, comments and scores * Verify the Type field is defaulted to PROGRESS |  |
| Save the active assessment as a new record | * Verify the initial saved record exists * Verify the active assessment was saved to the database * Verify the data in the database matches the assessment on screen. |  |
| Update the PROGRESS saved assessment |  |  |
| Navigate to the Active Assessments page | * Verify the saved assessment has been made active * Verify the session storage has been updated with the saved answers, comments and scores * Verify the Assessment object has been updated with the saved answers, comments and scores * Verify the Type field is defaulted to DISCHARGE |  |
| Save the active assessment as a new record | * Verify the initial saved record exists * Verify the active assessment was saved to the database * Verify the data in the database matches the assessment on screen. |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

# Functional Testing – Assessment & Scoring Requirements

## Test Case : Check the active assessment for content

* Requirement reference: AR1, AR2, AR3, AR4, AR5
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* For Fields, Headings, Questions and Answers, the R-SRAFVP Microsoft Word document will be used as a reference

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessments page |  |  |
| Check the assessment for Header fields:   * Therapist * Client Reference | Verify the fields exist |  |
| Check the assessment for Body fields:   * Location info (ex: state) * Patient’s Sex (Male/Female) * Patient’s Age * Patient’s Eye Diagnosis * Patient’s Co-Morbid Conditions * Assessment date * Assessment type: Initial, Progress, Discharge | Verify the fields exist |  |
| Check the assessment for Body for correct section headings:   * HEALTH MANAGEMENT * PERSONAL GROOMING * MEAL / LAUNDRY PREPARATION * FINANCIAL MANAGEMENT * USING THE TELEPHONE * READING * WRITING * FUNCTIONAL MOBILITY * PERSONAL PREFERENCE ACTIVITIES | Verify the sections exist |  |
| Check the assessment for Body fields:   * Questions * Answers * Section Comments (one for each heading) | * Verify all 33 questions from the R-SRAFVP are shown * Verify all questions are correct * Verify all questions are grouped under their correct section heading * Verify all 33 questions have answers shown * Verify all 9 headings have a section comments field |  |
| Check the assessment for Summary fields:   * Total questions marked not applicable (NA) * Total uncalculated points * Adjusted total points * Client’s total score * R-SRAFVP score * Impairment percentage * Medicare G-Code modifier * Assessment comments | * Verify the fields exist * Verify all fields are read only |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check the active assessment for data entry

* Requirement reference: AR6, AR7, AR8, AR10, AR11
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* For Headings, Questions and Answers, the R-SRAFVP Microsoft Word document will be used as a reference

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessments page |  |  |
| Check entering data into the Header fields:   * Therapist * Client Reference | Verify the fields will accept any text |  |
| Check entering data into the Body fields:   * Location info (ex: state) * Patient’s Sex (Male/Female) * Patient’s Age * Patient’s Eye Diagnosis * Patient’s Co-Morbid Conditions * Assessment date * Assessment type: Initial, Progress, Discharge | * Verify Location only accept characters a-z, A-Z * Verify Patients Sex only allows one selection * Verify patients age only accepts digits 0-9 and limits to 3 digits total * Verify the eye diagnosis field will accept any text * Verify the co-morbid conditions field will accept any text * Verify assessment data only accepts a date * Verify assessment type only shows Initial, Progress and Discharge and only allows one selection |  |
| Check entering data into the Body fields:   * Answers * Section Comments (one for each heading) | * Verify all 33 answers only show 0-4 or NA as an answer * Verify all 33 answers only allow 1 selection * Verify all section comments fields will accept any text |  |
| Check entering data into the Summary fields:   * Total questions marked not applicable (NA) * Total uncalculated points * Adjusted total points * Client’s total score * R-SRAFVP score * Impairment percentage * Medicare G-Code modifier * Assessment comments | * Verify all scoring fields are read only * Verify the assessment comments field will accept any text |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check the active assessment for required fields

* Requirement reference: AR14
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* For Scoring, the R-SRAFVP Microsoft Excel document will be used as a reference

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessments page |  |  |
| Enter no data in any of the required fields:   * Therapist * Patient’s Sex (Male/Female) * Patient’s Age * Assessment date * Assessment type: Initial, Progress, Discharge * Question answers (leave as default NA) |  |  |
| Navigate to the scoring tab on the active assessment | Verify the application displays a message to the user that they must enter data in the required fields. |  |
| Enter data in all the required fields:   * Therapist * Patient’s Sex (Male/Female) * Patient’s Age * Assessment date * Assessment type: Initial, Progress, Discharge * Question answers (leave as default NA) | Verify NO message is displayed to the user. |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check the active assessment help information

* Requirement reference: AR14
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* For Scoring, the R-SRAFVP Microsoft Excel document will be used as a reference

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessments page |  |  |
| Check the assessment for a scoring help page | * Verify the help page exists * Verify the help page provides help for each answer (0, 1, 2, 3, 4 and NA) * Verify the help information is like the Excel R-SRAFVP document |  |
| Check the assessment for a medicare help page | * Verify the help page exists * Verify the help page provides help for each medicare grade: * 0% * 1-19% * 20-39% * 40-59% * 60-79% * 80-99% * 100% * Verify the grades are like the Excel R-SRAFVP document |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case : Check the active assessment scoring

* Requirement reference: AC1, AC2, AC3, AC4, AC5, AC6, AC7
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* For Scoring, the R-SRAFVP Microsoft Excel document will be used as a reference

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessments page |  |  |
| Navigate to the scoring tab |  |  |
| Check the assessment for a default score | Verify the default score is as follows:   * Total NA = 33 * Total uncalculated points = 132 * Total adjusted points = 0 * Client total points = 0 * R-SRAFVP score = 0% * Impairment % = 100% * Medicare G-Code = CN |  |
| Change all assessment answers to 4’s | Verify the updated score is as follows:   * Total NA = 0 * Total uncalculated points = 0 * Total adjusted points = 132 * Client total points = 132 * R-SRAFVP score = 100% * Impairment % = 0% * Medicare G-Code = CH |  |
| Reset the assessment |  |  |
| Check the assessment for a reset score | Verify the default score is as follows:   * Total NA = 33 * Total uncalculated points = 132 * Total adjusted points = 0 * Client total points = 0 * R-SRAFVP score = 0% * Impairment % = 100% * Medicare G-Code = CN |  |
| Change assessment answers to follow the pattern na, 0, 1, 2, 3, 4.   * 6 questions will be answered na * 6 questions will be answered 0 * 6 questions will be answered 1 * 5 questions will be answered 2 * 5 questions will be answered 3 * 5 questions will be answered 4 | Verify the updated score is as follows:   * Total NA = 6 * Total uncalculated points = 24 * Total adjusted points = 108 * Client total points = 51 * R-SRAFVP score = 47% * Impairment % = 53% * Medicare G-Code = CK |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

# Functional Testing – Assessment Output Requirements

## Test Case 25: Check exporting the active assessment as a PDF for data correctness

* Requirement reference: AO1, AO2, AO3
* Precondition(s):
* A test account is available in the system (Test Account 1 = TstAcct1)
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* For Headings, Questions and Answers, the R-SRAFVP Microsoft Word document will be used as a reference

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessments page |  |  |
| Navigate to the Scoring tab |  |  |
| Export the Active Assessment (without any data entered) | * Verify the active assessment was exported to a PDF * Verify the active assessment data in the PDF matches the data shown on screen.   + Therapist is empty   + Client Reference is empty   + Location info values are empty   + Patient’s Sex is not set   + Patient’s Age is empty   + Patient’s Eye Diagnosis is empty   + Patient’s Co-Morbid Conditions is empty   + Assessment date is today’s date   + Assessment type is “Initial”   + Questions 1-33 are filled in and match the screen values   Answers 1-33 are all set to “na”   * + All comment values are empty |  |
| Compare the formatting of the PDF to the R-SRAFVP Microsoft Word document. | Verify the formatting is similar.   * No major errors in the formatting * No spelling issues in the formatting * No punctuation issues in the formatting |  |
| Reset the active assessment |  |  |
| Enter data into every field of the assessment.   * Make sure the data entered is unique to each field. * Select a Date other than the current date * Select a Type other than Initial * Change assessment answers to follow the pattern na, 0, 1, 2, 3, 4. * 6 questions will be answered na * 6 questions will be answered 0 * 6 questions will be answered 1 * 5 questions will be answered 2 * 5 questions will be answered 3 * 5 questions will be answered 4 | * Verify the active assessment was exported to a PDF * Verify the active assessment data in the PDF matches the data shown on screen.   + Therapist matches   + Client Reference matches   + Location info values match   + Patient’s Sex matches   + Patient’s Age matches   + Patient’s Eye Diagnosis matches   + Patient’s Co-Morbid Conditions matches   + Assessment date matches   + Assessment type matches   + Questions 1-33 are filled in and match the screen values   + Answers 1-33 match   + Answers with 0, 1 or 2 are in red background   + All comment values match |  |
| Reset the active assessment |  |  |
| Login to the application | Verify the user is logged in |  |
| Enter data into every field of the assessment.   * Skip the therapist field (should be filled in with therapist’s name or Therapist) * Make sure the data entered is unique to each field. * Select a Date other than the current date * Select a Type other than Initial * Change assessment answers to follow the pattern 4, 3, 2, 1, 0, na. * 6 questions will be answered 4 * 6 questions will be answered 3 * 6 questions will be answered 2 * 5 questions will be answered 1 * 5 questions will be answered 0 * 5 questions will be answered na | * Verify the active assessment was exported to a PDF * Verify the active assessment data in the PDF matches the data shown on screen.   + Therapist is the logged in user name (for Firebase it is Therapist)   + Client Reference matches   + Location info values match   + Patient’s Sex matches   + Patient’s Age matches   + Patient’s Eye Diagnosis matches   + Patient’s Co-Morbid Conditions matches   + Assessment date matches   + Assessment type matches   + Questions 1-33 are filled in and match the screen values   + Answers 1-33 match   + Answers with 0, 1 or 2 are in red background   + All comment values match |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 26: Check exporting the active assessment as a CSV for data correctness

* Requirement reference: AO1, AO2, AO3
* Precondition(s):
* A test account is available in the system (Test Account 1 = TstAcct1)
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache
* For Headings, Questions and Answers, the R-SRAFVP Microsoft Word document will be used as a reference

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Active Assessments page |  |  |
| Navigate to the Scoring tab |  |  |
| Export the Active Assessment (without any data entered) | * Verify the active assessment was exported to a CSV * Verify the active assessment data in the CSV matches the data shown on screen.   + Therapist is empty   + Client Reference is empty   + Location info values are empty   + Patient’s Sex is not set   + Patient’s Age is empty   + Patient’s Eye Diagnosis is empty   + Patient’s Co-Morbid Conditions is empty   + Assessment date is today’s date   + Assessment type is “Initial”   + Questions 1-33 are filled in and match the screen values   Answers 1-33 are all set to “na”   * + All comment values are empty |  |
| Compare the formatting of the CSV to the R-SRAFVP Microsoft Word document. | Verify the formatting is similar.   * No major errors in the formatting * No spelling issues in the formatting * No punctuation issues in the formatting |  |
| Reset the active assessment |  |  |
| Enter data into every field of the assessment.   * Make sure the data entered is unique to each field. * Select a Date other than the current date * Select a Type other than Initial * Change assessment answers to follow the pattern na, 0, 1, 2, 3, 4. * 6 questions will be answered na * 6 questions will be answered 0 * 6 questions will be answered 1 * 5 questions will be answered 2 * 5 questions will be answered 3 * 5 questions will be answered 4 | * Verify the active assessment was exported to a CSV * Verify the active assessment data in the CSV matches the data shown on screen.   + Therapist matches   + Client Reference matches   + Location info values match   + Patient’s Sex matches   + Patient’s Age matches   + Patient’s Eye Diagnosis matches   + Patient’s Co-Morbid Conditions matches   + Assessment date matches   + Assessment type matches   + Questions 1-33 are filled in and match the screen values   + Answers 1-33 match   + Answers with 0, 1 or 2 are in red background   + All comment values match |  |
| Reset the active assessment |  |  |
| Login to the application | Verify the user is logged in |  |
| Enter data into every field of the assessment.   * Skip the therapist field (should be filled in with therapist’s name or Therapist) * Make sure the data entered is unique to each field. * Select a Date other than the current date * Select a Type other than Initial * Change assessment answers to follow the pattern 4, 3, 2, 1, 0, na. * 6 questions will be answered 4 * 6 questions will be answered 3 * 6 questions will be answered 2 * 5 questions will be answered 1 * 5 questions will be answered 0 * 5 questions will be answered na | * Verify the active assessment was exported to a CSV * Verify the active assessment data in the CSV matches the data shown on screen.   + Therapist is the logged in user name (for Firebase it is Therapist)   + Client Reference matches   + Location info values match   + Patient’s Sex matches   + Patient’s Age matches   + Patient’s Eye Diagnosis matches   + Patient’s Co-Morbid Conditions matches   + Assessment date matches   + Assessment type matches   + Questions 1-33 are filled in and match the screen values   + Answers 1-33 match   + Answers with 0, 1 or 2 are in red background   + All comment values match |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

# Functional Testing – Help Requirements

## Test Case 27: Check Help pages are available to a Guest user

* Requirement reference: HR1
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Main page |  |  |
| Check for the following R-SRAFVP help pages:   * About the Application help * About the R-SRAFVP Toolkit * About US HHS Privacy Rule * About US HHS Security Rule | * Verify the pages are accessible * Verify the pages contain content pertinent to their topic |  |
| Navigate to the Active Assessment page |  |  |
| Check for the following Assessment help pages:   * Scoring Scale Help * Medicare Scale Help * Assessment Help | * Verify the pages are accessible * Verify the pages contain content pertinent to their topic |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 28: Check Help pages are available to a Guest user

* Requirement reference: HR2
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Main page |  |  |
| Navigate to the Active Assessment page |  |  |
| Check Scoring Scale Help | * Verify it shows all possible answers * Verify each score has some description of what the score means |  |
| Check Medicare Scale Help | * Verify it shows all possible Medicare modifiers * Verify each Medicare modifier has some description of what it means |  |
| Check Assessment Help | * Verify it describes how to fill in the assessment fields * Verify it describes how to answer the questions * Verify it describes how scoring is done * Verify it describes the major functions available to the user and how to use them (e.g. Reset, Export, Save, etc.) |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 29: Check version information for the application

* Requirement reference: HR3
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Main page |  |  |
| Navigate to the About Application help page |  |  |
| Check the About Application help page for the following information:   * Application author * Permission of use * Licensing information * Contact information * Versioning information * Date of release | Verify the help page shows the following:   * Application author * Permission of use * Licensing information * Contact information * Versioning information * Date of release |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 30: Check US HHS Privacy Rule information for the application

* Requirement reference: HR4
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Main page |  |  |
| Navigate to the About Privacy Rule help page |  |  |
| Check the About Privacy Rule help page for the following information:   * How the application complies with the Privacy rule * Link to the US HHS Privacy Rule site for more information | Verify the help page shows the following:   * How the application complies with the Privacy rule * A description of requirements FR1, FR2, FR3, DR1, DR2, DR3, DR4, DR5, FR19, FR20, FR21, FR22 define privacy compliance * Link to the US HHS Privacy Rule site for more information |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 31: Check US HHS Security Rule information for the application

* Requirement reference: HR5
* Precondition(s):
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the Main page |  |  |
| Navigate to the About Security Rule help page |  |  |
| Check the About Security Rule help page for the following information:   * How the application complies with the Security rule * Link to the US HHS Security Rule site for more information | Verify the help page shows the following:   * How the application complies with the Security rule * A description of requirements SP1, SP2, SP3, FR19, FR20, FR21, FR22 ensures confidentiality of data. * A description of requirements FR1, FR2, FR3, FR11, FR12, FR13, FR14, FR15 ensures integrity of data. * A description of requirements SP1, SP2, SP3, GR1 ensures availability of data. * Link to the US HHS Security Rule site for more information |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

# Functional Testing – Security/Privacy

## Test Case 32: Check Login using a Google account

* Requirement reference: SP1
* Precondition(s):
* The user has a valid, active Google account
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use the Google account credentials | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Logout of the application | Verify the user is logged out |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 33: Check Login using a Facebook account

* Requirement reference: SP2
* Precondition(s):
* The user has a valid, active Facebook account
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use the Facebook account credentials | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Logout of the application | Verify the user is logged out |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

## Test Case 34: Check Login using a Firebase account

* Requirement reference: SP3
* Precondition(s):
* A Firebase test account is available in the system (Test Account 1 = TstAcct1)
* The user’s device has access to the internet and is online
* The application is not running on the device
* The browser history has been cleared for the website cache

|  |  |  |
| --- | --- | --- |
| Steps | Expected results | P/F |
| Navigate to the application’s web address |  |  |
| Navigate to the main page of the application |  |  |
| Login to the application   * Use the Firebase account credentials (email/password) | Verify the user is logged in |  |
| Navigate to the main page |  |  |
| Logout of the application | Verify the user is logged out |  |

|  |  |
| --- | --- |
| Comments |  |
| Status | Pass / Fail ? |

# User Acceptance Testing

## Phone Workflow Scenario

The following scenario should be tested with either an Android phone using Google Chrome browser or iOS phone using Apple Safari browser.

|  |  |  |
| --- | --- | --- |
| Check ID | Test Case | Pass/Fail |
| 1 | Does the application have a title screen? |  |
| 2 | Does the application install as a PWA? |  |
|  | When starting the application, is the assessment reset (default answers)? |  |
|  | Can a guest user create an assessment?   * Random number of questions answered * Random number of comments entered * Do the fields reflect the data entered? * Is the scoring correct for the data entered? |  |
| 5 | Can the assessment be exported to CSV?   * Random number of questions answered * Random number of comments entered * Is the exported format correct (e.g., CSV is CSV)? * Does the exported data match the data entered? |  |
| 6 | Can the assessment be exported to PDF?   * Random number of questions answered * Random number of comments entered * Is the exported format correct (e.g., CSV is CSV)? * Does the exported data match the data entered? |  |
| 7 | Can the assessment be reset?   * Random number of questions answered * Random number of comments entered * Reset the assessment * Are all fields returned to default values? |  |
| 8 | Can a user login with Firebase authentication?   * Is the user identified as being logged in? |  |
| 9 | Can a user login with Google authentication?   * Is the user identified as being logged in? |  |
| 10 | Save assessment? |  |
| 11 | Recall assessment? |  |

## Tablet Workflow Scenario

The following scenario should be tested with either an Android tablet using Google Chrome browser or iOS tablet using Apple Safari browser.

|  |  |  |
| --- | --- | --- |
| ID | Test Case | Pass/Fail |
| 1 | Does the application have a title screen? |  |
| 2 | Does the application install as a PWA? |  |
| 3 | Can a guest user create an assessment?   * Random number of questions answered * Random number of comments entered * Do the fields reflect the data entered? * Is the scoring correct for the data entered? |  |
| 4 | Can the assessment be exported to CSV?   * Random number of questions answered * Random number of comments entered * Is the exported format correct (e.g., CSV is CSV)? * Does the exported data match the data entered? |  |
| 5 | Can the assessment be exported to PDF?   * Random number of questions answered * Random number of comments entered * Is the exported format correct (e.g., CSV is CSV)? * Does the exported data match the data entered? |  |
| 6 | Can the assessment be reset?   * Random number of questions answered * Random number of comments entered * Reset the assessment * Are all fields returned to default values? |  |
| 7 | Can a user login with Firebase authentication?   * Is the user identified as being logged in? |  |
| 8 | Can a user login with Google authentication?   * Is the user identified as being logged in? |  |
| 9 | Save assessment? |  |
| 10 | Recall assessment? |  |

## Computer Workflow Scenario

The following scenario should be tested with a computer using Google Chrome browser, Microsoft Edge browser or Apple Safari browser.

|  |  |  |
| --- | --- | --- |
| ID | Test Case | Pass/Fail |
| 1 | Does the application have a title screen? |  |
| 2 | Does the application install as a PWA? |  |
| 3 | Can a guest user create an assessment?   * Random number of questions answered * Random number of comments entered * Do the fields reflect the data entered? * Is the scoring correct for the data entered? |  |
| 4 | Can the assessment be exported to CSV?   * Random number of questions answered * Random number of comments entered * Is the exported format correct (e.g., CSV is CSV)? * Does the exported data match the data entered? |  |
| 5 | Can the assessment be exported to PDF?   * Random number of questions answered * Random number of comments entered * Is the exported format correct (e.g., CSV is CSV)? * Does the exported data match the data entered? |  |
| 6 | Can the assessment be reset?   * Random number of questions answered * Random number of comments entered * Reset the assessment * Are all fields returned to default values? |  |
| 7 | Can a user login with Firebase authentication?   * Is the user identified as being logged in? |  |
| 8 | Can a user login with Google authentication?   * Is the user identified as being logged in? |  |
| 9 | Save assessment? |  |
| 10 | Recall assessment? |  |