

Smarter Balanced RFP # 11/Test Authoring

Test Authoring / User Interface

Scenario Description:

Add Item Selection Algorithm from UI

Version Control

Version #	Date	Author	Description
1.0	03/06/2014	MR	Initial Draft

Test Scripts:

The following scripts, links and pages consist of adding and validating Item Selection Algorithm from Test Authoring UI

Test Components:

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

- 1.0 Item Selection Algorithm

Requirements Traceability:

RADTIB 5, RADTIB 5.1, RADTIB 5.2, RADTIB 5.3, RADTIB 5.4, RADTIB 6, RADTIB 6.1, RADTIB 6.2, RADTIB 6.3, RADTIB 6.4, RADTIB 6.5, RADTIB 6.6, RADTIB 6.7, RADTIB 6.8, RADTIB 22.1, RADTIB 22.2, RADTIB 22.3, RADTIB 22.4, RADTIB 22.5

Testing Requirements:

- Create a version of the item selection algorithm that is provided as major.minor version string. It is acceptable to have multiple item selection algorithms with the same name so long as the versions are different. This is done to accommodate new versions of a item selection algorithm and maintain compatibility with older versions for an existing test.
- Item selection algorithms have parameters, but this table only indicates the number of parameters Create The following parts of an item selection rule parameter.
- Item selection algorithms shall be configurable in Test Authoring so that new item selection algorithms and their parameters can be added at any time.
- Configured versions of item selection algorithms shall have a major.minor version number.
- The Test Segment user interface shall present configured item selection algorithms for selection by the Test Author, and shall provide a dynamic user interface for entering configuration parameters specific to the selected algorithm.

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- Test Authoring shall provide a setup function that analyzes the external inputs for configuration of item selection algorithms and provide users with appropriate error messages if something is wrong with the external configuration.
- The system will support a minimum of three item selection algorithms: fixedform, field test and adaptive

Script #:1.1 Item Selection Algorithm

Purpose:

Add and validate Item Selection Algorithm

Assumptions:

- Test Spec Bank, ProgMan, Permission, Test Item Bank, Core Standard systems are up and running

Prerequisites:

- Test Author application is online and user has valid credentials to login

Test case Steps

Step #	Test Action	Expected Results	Pass/Fail
Login			
L1.0	Open a supported browser and access link http://drcamp-dev.opentestsystem.org:8080/	SSO login page displays	
L1.1	Enter valid user ID and password	Test Authoring page displays	
Item Selection Algorithm			
ISA1.0	Click Item Selection Algorithms from Settings wheel	Item Selection Algorithm Search page displays with list of Item Selection Algorithm in the search results grid	
ISA1.1	Verify that following objects are present in Item Selection Algorithm search page: 1. Name textbox 2. Search and New button 3. Search Results grid with following columns:	Objects are present	

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Step #	Test Action	Expected Results	Pass/Fail
	Name Version Algorithm Type Number of Parameters (Scalar/Blueprint) Action 4. Total results found		
ISA1.2	Verify that clicking on Name column from search results grid sorts items in ascending or descending order	Clicking on Name column from search results grid sorts items in ascending or descending order	
ISA1.3	Click New button	Add Item Selection Algorithm page displays	
ISA1.4	Verify that following objects are present in Item Selection Algorithm search page: <ol style="list-style-type: none"> 1. Name and Version textbox 2. Algorithm Type listbox 3. Save and Back button 4. Add parameter and Reset Position buttons 	Objects are present	
ISA1.5	Click Save	Following error message displays: Please fix errors in order to save information: Algorithm Type is required. Algorithm Name is required. At least one Item Selection Algorithm Parameter is required. Version is required.	
Monitoring and Alerting (MnA)			
M1.0	Go to http://web-dev.opentestsystem.org:8080/permissions/roles.xhtml	MnA Dashboard displays	
M1.1	Click Search Log	MnA Log Search page displays	
M1.2	Select Component = test_auth Click Search	Search results display the same error message	
Item Selection Algorithm			

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Step #	Test Action	Expected Results	Pass/Fail
ISA2.0	Enter Name and Version of scoring function Select FIXEDFORM from Algorithm Type list box Click Save	Following error message displays: At least one Item Selection Algorithm Parameter is required.	
ISA2.1	Click on Parameter Add icon from	New Parameter Details section uncovers	
ISA2.2	Click Save	Following error message displays: Default Value is required. Parameter Purpose is required. Parameter Type is required.	
ISA2.3	Enter Parameter Name Select Purpose = SCALAR Type = BOOLEAN Verify that Default Value pre-populates with FALSE	Default Value pre-populates with FALSE	
ISA2.4	Select Type = INTEGER Click Save	Following error message displays: Please fix errors in order to save information: Default Value is required Maximum Value is required when parameter is of Type: INTEGER Minimum Value is required when parameter is of Type: INTEGER	
ISA2.5	Select Type = FLOAT Click Save	Following error message displays: Please fix errors in order to save information: Default Value is required Maximum Value is required when parameter is of Type: FLOAT Minimum Value is required when parameter is of Type: FLOAT	
ISA2.6	Select Type = LIST Verify that Add List and Reset	that Add List and Sort List icons appears	

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Step #	Test Action	Expected Results	Pass/Fail
	Position List icons appears		
ISA2.7	Click Save	Following error message displays: Please fix errors in order to save information: Default Value is required. At least one Parameter List Value is required when parameter is of Type: LIST	
ISA2.8	Enter default value Click Save	Following error message displays: Please fix errors in order to save information: At least one Parameter List Value is required when parameter is of Type: LIST	
ISA2.9	Click Add List Icon Enter list value Enter Default value different than list value Click Save	Following error message displays: Please fix errors in order to save information: Default Value must be a value in the Item Selection List: [values from list]	
ISA2.10	Click Add List icon to add another list and enter list value	Another list value is added	
ISA2.11	Click Reset Position List icon	List values are displayed in sortable mode	
ISA2.12	Verify that list values are repositionable	List values are repositionable	
ISA2.13	Verify that Done button is displayed	Done button is displayed	
ISA2.14	Click Done	Reset Position section closes	
ISA2.15	Add another parameter with valid values	Parameter added	
ISA2.16	Click Reset Position parameter icon	Parameters are displayed in sortable mode	
ISA2.17	Verify that list values are repositionable	parameters are repositionable	

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Step #	Test Action	Expected Results	Pass/Fail
ISA2.18	Verify that Done button is displayed	Done button is displayed	
ISA2.19	Click Done	Reset parameters section closes	
ISA2.20	Enter default value which is same as one of the list values Click Save	Item Selection Algorithm is saved and system displays Item Selection Algorithm view page	
ISA2.21	Click Item Selection Algorithm from left navigation	Item Selection Algorithm Search page displays with newly added Item Selection Algorithm	
Database			
D1.0	Logon to Mongo database collection Execute query to verify that new Item Selection Algorithm has been added	New Item Selection Algorithm has been added	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
12/09/2013	RM, SM, SK, MR	UI	1	Pass