

8_Field Validation

System Setup

REDCap Version	LTS 10.0.5	Application URL	https://www.mc.vanderbilt.edu/victr/dcc/redcap/demos/
Browser Version	Version 87.0.4280.88 (Official Build) (64-bit)	OS Version	Windows 10
Actual Execution Time	15		
Instructions	Reference User Guide for Community User		

Test Summary

Feature Category Description: Data Integrity - Ensures accuracy and consistency of the data collected in the REDCap database.

Test Purpose Details: This test script validates the enabling/disabling of core validation types in the Control Center and validates core text validation and range limits at the project level.

Functional Requirements:

- Field validation
 - Control Center
 - 8.4-8.6 The system shall support the enabling/disabling of field validation types. The core validation types are listed below:
 - Date (D-M-Y)
 - Datetime (M-D-Y H:M)
 - Datetime w/seconds (Y-M-D H:M:S)
 - Email
 - Integer
 - Number
 - Number (1 decimal place – comma as decimal)
 - Time (HH:MM)

User Interface

- 8.9-8.16 The system shall support the following text validation for text field types:
 - Date (D-M-Y)
 - DateTime (M-D-Y H:M)
 - DateTime with Seconds (Y-M-D H:M:S)
 - Email
 - Integer
 - Numbers
 - Number (1 decimal place – comma as decimal)
 - Time (HH:MM)
- 8.17-8.23 The system shall support ranges for the following data types:
 - Date (D-M-Y)
 - DateTime (M-D-Y H:M)

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- DateTime with Seconds (Y-M-D H:M:S)
- Integer
- Number
- Number (1 Decimal Place – comma as decimal)
- Time (HH:MM)

Test Requirements

Test Users

ID	User Name	Password	Minimum User's Rights	DAGs and Other Settings
1.	admin1005	Pswd_1103	Administrator	Pre-existing administrator user
2.				
3.				

Project Setup

ID	Description	Instructions
1.	Project: 8_FieldValidation_v1005	This project exists and was created from a copy of pre req 7
2.	Project Setup	<p>Control Center the following validation types are disabled:</p> <p>Date (D-M-Y) Datetime (M-D-Y H:M) Datetime w/seconds (Y-M-D H:M:S) Email Integer Number Number (1 decimal place – comma as decimal) Time (HH:MM)</p> <p>Project Setup All data deleted Surveys disabled Longitudinal disabled Repeatable instruments disabled (may need to turn instruments on and off, then save) Auto-numbering enabled Remaining optional modules disabled</p>
3.	Data Import File Name:8_FieldValidation_v1005_DataDictionary.csv	Will be used to setup the project from within the script steps
4.	Other Files	N/A

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Test Steps

Step #	Action Step	Expected Result	Pass / Fail	Comments
Help	<i>You must perform the actions listed in this column.</i>	<i>After performing the actions in the 'Action Step' column, you should see the following.</i>	<i>Check 'Pass', if the actual results match the 'Expected Result'; otherwise, check 'Fail'.</i>	<i>Include unexpected results, suggestions. etc.</i>
1.	Navigate to the validation website's REDCap login page Login as admin1005 Verify the project complies with all project setup steps in the Test Requirements section of this script.	Successful login Test Requirements met as written for this script.	x Pass Fail <input type="checkbox"/>	
2..	Go to My Projects and open 8_FieldValidation_v1005 project	The project opens successfully	x Pass Fail <input type="checkbox"/>	
3.	Go to Project Setup and upload the data dictionary: 8_FieldValidation_v1005_DataDictionary.csv Commit changes	Changes Made Successfully!	x Pass Fail <input type="checkbox"/>	See 7_Design forms using Data Dictionary and Online Designer
4.	Go to Online Designer and open the Text Validation instrument.	Text Validation instrument opens in the online designer.	x Pass Fail <input type="checkbox"/>	
5.	Add a field under the Record ID Field type: Text Click the Validation dropdown Verify that <i>none</i> of the following appear: Date (D-M-Y) Datetime (M-D-Y H:M) Datetime w/seconds (Y-M-D H:M:S) Email Integer Number Number (1 decimal place – comma as decimal) Time (HH:MM)	The Add New Field page appears None of the listed validation types appears in the list.	x Pass	

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	Cancel	The field is not saved.	Fail <input type="checkbox"/>	
6.	Go to the Control Center, Field Validation Types page. Enable the following field validation types: Date (D-M-Y) Datetime (M-D-Y H:M) Datetime w/seconds (Y-M-D H:M:S) Email Integer Number Number (1 decimal place – comma as decimal) Time (HH:MM)	The Field Validation Types page appears All listed validation field types are enable verified by a green check mark.	x Pass Fail <input type="checkbox"/>	
7.	Go to the project's Online Designer and open the Text Validation instrument. Add a field under the Record ID Field type: Text Click the Validation dropdown Verify that <i>all</i> of the following appear: Date (D-M-Y) Datetime (M-D-Y H:M) Datetime w/seconds (Y-M-D H:M:S) Email Integer Number Number (1 decimal place – comma as decimal) Time (HH:MM) Cancel	Text Validation instrument opens in the online designer. The Add New Field page appears All of the listed validation types appear in the list. The field is not saved.	x Pass Fail <input type="checkbox"/>	
8.	Add a new record Open the Text Validation instrument	The Record Home page appears An empty Text Validation instrument appears for Record ID 1	X Pass Fail <input type="checkbox"/>	See 14__Direct Data Entry with Data Collection Instrument
	In the Validation section			
9.	In the Date (D-M-Y) field, enter 01-31-2019 Close pop up	Alert: "The value you provided could not be validated... Required format: Date (D-M-Y)"		

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	Delete data and enter 31-01-2019 Save & Stay	Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
10.	In the DateTime (M-D-Y H:M) field, enter 01-31-2019 Close pop up Delete data and enter 01-31-2019 10:00 Save & Stay	Alert: "The value you provided could not be validated... Required format: DateTime (M-D-Y H:M)" Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
11.	In the Datetime w/seconds (Y-M-D H:M:S) field, enter 01-31-2019 10:00 Close pop up Delete data and enter 2019-01-31 10:00:04 Save & Stay	Alert: "The value you provided could not be validated... Required format: DateTime w/seconds (Y-M-D H:M:S)" Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
12.	In the Email field, enter redcap@ Close pop up Delete data and enter redcap@user.com Save & Stay	Alert: "This field must be a valid email address (like joe@user.com)." Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
13.	In the Integer field, enter 50.2 Close pop up Delete data and enter 50 Save & Stay	Alert: "The value you provided is not an integer." Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
14.	In the Number field, enter abc Close pop up Delete data and enter 6.78 Save & Stay	Alert: "The value you provided is not a number." Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	

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15.	In the Number (1 decimal place – comma as decimal) field, enter 10.9 Close pop up Delete data and enter 10,9 Save & Stay	Alert: “The value you provided could not be validated... Required format: Number (1 decimal place - comma as decimal)” Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
16.	In the Time (HH:MM) field, enter 17 Close pop up Delete data and enter 17:00 Save & Stay	Alert: “The value entered must be a time value...” Required format: HH:MM within the range 00:00-23:59 (e.g., 04:32 or 23:19).” Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
In the Ranges section				
17.	In the Date (D-M-Y) range field, enter 15-02-19 Close pop up Save & Stay	Alert: “The value you provided is outside the suggested range. (01-01-2019 - 31-01-2019). This value is admissible...” Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
18.	In the DateTime (M-D-Y H:M) range range field, enter 01-15-19 16:00 Close pop up Save & Stay	Alert: The value you provided is outside the suggested range. (01-01-2019 10:00 - 01-01-2019 15:36). This value is admissible...” Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
19.	In the DateTime with Seconds (Y-M-D H:M:S) range field, enter 2019-01-15 09:15:10 Close pop up Save & Stay	Alert: “The value you provided is outside the suggested range. (2019-01-01 09:00:00 - 2019-01-01 09:15:00). This value is admissible...” Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
20.	In the Integer range field, enter 30 Close pop up	Alert: “The value you provided is outside the suggested range. (0 - 10). This value is admissible...” Data accepted	X Pass Fail <input type="checkbox"/>	

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	Save & Stay	Record is saved		
21.	In the Number range field, enter 5.5 Close pop up Save & Stay	Alert: "The value you provided is outside the suggested range. (5.505 - 6.005). This value is admissible..." Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
22.	In the Number (1 Decimal Place comma as decimal) range field, enter 21,8 Close pop up Save & Stay	Alert: "The value you provided is outside the suggested range. (1,0 - 20,0). This value is admissible..." Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
23.	In the Time (HH:MM) range field, enter 05:01 Close pop up Save & Stay	Alert: "The value you provided is outside the suggested range. (06:00 - 08:00). This value is admissible..." Data accepted Record is saved	X Pass Fail <input type="checkbox"/>	
	THIS ENDS THE TESTING FOR THIS SCRIPT			



Validation Test Script

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Conclusion

Did the Actual Results for each test step match the Expected Results listed?

Yes

No

Comments/Additional Information: (Indicate the step number of the step you wish to comment on.)

Completed By

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Date:

1/4/21