

## 17\_ Data Comparison Tool / DDE Module

### System Setup

REDCap Version	LTS 10.0.5	Application URL	<a href="https://redcapsvc.app.vumc.org/">https://redcapsvc.app.vumc.org/</a>
Browser Version	Google Version 89.0.4389.90 (Official Build) (64-bit)	OS Version	Windows 10
Actual Execution Time	58 mins (09:30 -10:26)		
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 data comparison tool and the double data entry module.

**Functional Requirements:**

- Data Comparison Tool / DDE Module
  - 17.1 - 17.5 The system shall provide the ability to compare two records within the same project and display the differences between them.
  - 17.6, 17.10 The system shall support the enabling/disabling of the Double Data Entry module. (Control Center).
  - 17.7 The system shall allow the designation of two users or two roles as data entry persons 1 and 2 who may independently enter duplicate records while restricting their view of the other's records.
  - 17.7 The system shall assign Reviewer rights to all users not designated as data entry person 1 or 2.
  - 17.8 The system shall allow Reviewers to view and adjudicate the differences between duplicate records.
  - 17.9 The system shall allow Reviewers to merge both entries into a third, single record.

### 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.	user1005_1	1005_1Pswd	Normal user can create projects. User has project design/setup rights and access to the Data Comparison Tool.	

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3.	user1005_3	1005_3Pswd	Normal user can create projects. User has project design/setup rights and access to the Data Comparison Tool.	
4.	user1005_4	1005_4Pswd	Normal user can create projects. User has project design/setup rights and access to the Data Comparison Tool.	

Project Setup		
ID	Description	Instructions
1.	Project: 17_DataComparisonTool_DDE_v1005	Project created during script 7.
2.	Project Setup:	<ul style="list-style-type: none"> <li>• Disable Repeatable instruments and events.</li> <li>• Disable longitudinal data collection.</li> <li>• Data Types instrument: textbox has validation type of 'Date (M-D-Y)'</li> </ul>
3.	Data Import File Name	N/A
4.	Other Files:	N/A

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### Test Steps

Step #	Action Step	Expected Result	Pass / Fail	Comments
<i>Help</i>	<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.	<p>Log in as user1005_1</p> <p>Click 'My Projects'</p> <p>Click '17_DataComparisonTool_DDE_v1005'</p> <p>Click 'Add / Edit Records' and click 'Add new record'</p> <p>Open the 'Text Validation' form and enter the following information:            Name: Rolling Stones            EMail: rs@noreply.edu</p> <p>Move form status to Complete and click 'Save &amp; Go to Next Form'.</p> <p>Enter the following information:            Name: Mick Jagger            text2: singer            Textbox: 07/26/1943            Multiple Choice            Dropdown Manual: select the first option 'DDChoice5'            Radio Button Auto: select the first option 'Choice1'            Checkbox: select the first option 'Checkbox 1'            Required: 75</p>			Note: Record 1 exists. This step adds records 2 and 3.

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	<p>Move form status to Complete and click 'Save &amp; Exit Form'</p> <p>Click 'Add / Edit Records' and click 'Add new record'</p> <p>Open the 'Text Validation' form and enter the following information:          Name: Guns N' Roses          EMail: gnr@noreply.edu</p> <p>Move form status to Complete and click 'Save &amp; Go to Next Form'.</p> <p>Enter the following information:          Name: Axl Rose          text2: singer          Textbox: 02/06/1962          Multiple Choice          Dropdown Manual: select the first option 'DDChoice5'          Radio Button Auto" select the second option 'Choice2'          Checkbox: select the first option 'Checkbox 1'          Required: 57</p> <p>Move form status to Complete and click 'Save &amp; Exit Form'</p> <p>Click 'Data Comparison Tool'</p> <p>Use the dropdown in the first column and select Record ID 2</p> <p>Use the dropdown in the second column</p>	<p>Data Comparison Tool opens</p> <p>Record ID 2 is selected</p> <p>Record ID 3 is selected</p> <p>A table will appear that displays the values for each record that are different.</p> <p>The following fields will be in red:          ptname_v2_v2          email_v2          ptname          textbox          multiple_radio_auto          required</p>	<p><input checked="" type="checkbox"/> <b>Pass</b></p> <p><b>Fail</b> <input type="checkbox"/></p>	
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	and select Record ID 3  Click 'Compare'			
2.	Click 'Print Page'  Close print pop-up window	Print dialog opens page for printing.	<input checked="" type="checkbox"/> <b>Pass</b>  <b>Fail</b> <input type="checkbox"/>	
3.	Under the column labeled as 2, click the value (75) for the Required field.  Change value to 57 and click 'Save & Exit Form'.  Click 'Data Comparison Tool' and Compare records 2 and 3.	A new tab will open and you are taken to the required field.  Record is saved  The required field no longer appears in the table.	<input checked="" type="checkbox"/> <b>Pass</b>  <b>Fail</b> <input type="checkbox"/>	
4.	Under the column labeled as 3, click the value (Guns N' Roses) for the Name field.  Remove the value for the Name field and click 'Save & Exit Form'.  Click 'Data Comparison Tool' and Compare records 2 and 3.	A new tab will open and you are taken to the Name field.  Record is saved.  The Name field appears in the table, the value listed for Record ID 2 is in red font and no value exists for the name field for Record ID 3.	<input checked="" type="checkbox"/> <b>Pass</b>  <b>Fail</b> <input type="checkbox"/>	
5.	Under the column labeled as 3, click the value (gnr@noreply.edu) for the EMail field.  Change the following fields: Name: Rolling Stones EMail: rs@noreply.edu  Click 'Save & Go to Next Form'	A new tab will open and you are taken to the EMail field.	<input checked="" type="checkbox"/> <b>Pass</b>  <b>Fail</b> <input type="checkbox"/>	

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	<p>Change the following fields:          Name: Mick Jagger          text2: singer          Textbox: 07/26/1943          Radio Button Auto"          select the first option          'Choice1'</p> <p>Click 'Save &amp; Exit Form'</p> <p>Click 'Data Comparison Tool' and Compare records 2 and 3.</p> <p>Log Out</p>	<p>Record is saved.</p> <p>No table appears and the following message is shown "The two records named 2 and 3 are identical. No differences were found."</p> <p>Logout successful</p>		
6.	<p>Log in as admin1005</p> <p>Click 'Project Setup' and click the 'Edit project settings' link at top right to move to the Control Center</p> <p>Scroll down and use the dropdown next to 'Double Data Entry module' and select 'Enabled'.</p> <p>'Save Changes'</p> <p>Click the '17_DataComparisonTool_DDE_v1005' link</p>	<p>The 'Edit Project Settings' page for opens in the Control Center and the Navigate to project is.'17_DataComparisonTool_DDE_v1005'</p> <p>Changes are saved</p> <p>You are taken to the Project Home page.</p>	<input checked="" type="checkbox"/> <b>Pass</b>  <b>Fail</b> <input type="checkbox"/>	
7.	<p>Click 'User Rights', click user1005_1 and assign user as Double Data Entry Person #1. Click Save Changes.</p> <p>Click user1005_3 and assign user as Double Data Entry Person #2. Click Save Changes.</p>	<p>User Rights are updated.</p>	<input checked="" type="checkbox"/> <b>Pass</b>  <b>Fail</b> <input type="checkbox"/>	

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	Click user1005_4 and ensure user is assigned as a Double Data Entry Reviewer.  Log Out			
8.	<p>Log in as user1005_1</p> <p>Click 'Add / Edit Records'. Enter Record ID 5 and click enter</p> <p>Open the 'Text Validation' form and enter the following information: Name: Beatles EMail: beatles@noreply.edu</p> <p>Move form status to Complete and click 'Save &amp; Go to Next Form'.</p> <p>Enter the following information: Name: Paul McCartney text2: singer Textbox: 06/18/1943 Multiple Choice Dropdown Manual: select the first option 'DDChoice5' Radio Button Auto" select the second option 'Choice2' Checkbox: select the first option 'Checkbox 1' Required: 77</p> <p>Move form status to Complete and click 'Save &amp; Exit Form'</p> <p>Log out and log in as user1005_3</p>		<input checked="" type="checkbox"/> <b>Pass</b>  <b>Fail</b> <input type="checkbox"/>	

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	<p>Click 'Add / Edit Records'. Enter Record ID 5 and click enter</p> <p>Open the 'Text Validation' form and enter the following information:          Name: Beatles          EMail: beatles@noreply.edu</p> <p>Move form status to Complete and click 'Save &amp; Go to Next Form'.</p> <p>Enter the following information:          Name: Paul McCartney          text2: singer          Textbox: 06/18/1943          Multiple Choice          Dropdown Manual: select the first option 'DDChoice5'          Radio Button Auto" select the second option 'Choice2'          Checkbox: select the first option 'Checkbox 1'          Required: 77</p> <p>Move form status to Complete and click 'Save &amp; Exit Form'</p> <p>Log out and log in as user1005_4</p> <p>Click 'Data Comparison Tool'</p> <p>In the 'Choose a record' drop down, select record 5. Click 'Compare selected record'.</p>	<p>Data Comparison Tool opens.</p> <p>A message is shown that states "The two records named 5--1 and 5--2 are identical. No differences were found.</p> <p>A message is shown that states "RECORD CREATED! Record 5 has now been created by merging the values you selected from 5--1 and 5--2"</p>		
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	<p>Click 'Create Record 5'</p> <p>Log Out</p>			
9.	<p>Log in as user1005_1</p> <p>Click 'Add / Edit Records'</p> <p>Enter Record ID 10 and click enter</p> <p>Open the 'Text Validation' form and enter the following information:            Name: Beatles            EMail: beatles@noreply.edu</p> <p>Move form status to Complete and click 'Save &amp; Go to Next Form'.</p> <p>Enter the following information:            Name: Paul McCartney            text2: singer            Textbox: 06/18/1943            Multiple Choice            Dropdown Manual: select the first option 'DDChoice5'            Radio Button Auto" select the second option 'Choice2'            Checkbox: select the first option 'Checkbox 1'            Required: 77</p> <p>Move form status to Complete and click 'Save &amp; Exit Form'</p>			

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	<p>Log out and log in as user1005_3</p> <p>Click 'Add / Edit Records'</p> <p>Enter Record ID 10 and click enter</p> <p>Open the 'Text Validation' form and enter the following information:          Name: Beatles          EMail: beatles@noreply.com</p> <p>Move form status to Complete and click 'Save &amp; Go to Next Form'.</p> <p>Enter the following information:          Name: Paul          text2: vocalist          Textbox: 06/18/1943          Multiple Choice          Dropdown Manual: select the first option 'DDChoice5'          Radio Button Auto" select the second option 'Choice2'          Checkbox: select the first option 'Checkbox 1'          Required: 77</p> <p>Move form status to Complete and click 'Save &amp; Exit Form'</p> <p>Log out and log in as user1005_4</p> <p>Click 'Data Comparison Tool'</p>	<p>Data Comparison Tool opens.</p> <p>A message appears that states          "Differences were found between two records named 10--1 and 10--2. The table below compares the two records..."</p> <p>A table will appear that displays the values for each record that are different.</p> <p>The following fields will be in red:          email_v2          ptname          text2</p> <p>Instructions for merging records will appear.</p>		
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	<p>In the 'Choose a record' drop down, select record 10. Click 'Compare selected record'.</p> <p>Click the "click here to merge them" link</p> <p>For the email_v2 field, click the radio button in the New Value column. Enter 'paul_beatles@noreply.edu' under the New Value column.</p> <p>For the ptname field, select the value under column 10--1.</p> <p>For the text2 field, select the value under column 10-2.</p> <p>Click 'Merge Records</p> <p>Click 'Record Status Dashboard', click Record ID 10 and open the Text Validation form.</p>	<p>Message states "RECORD CREATED! Record 10 has now been created by merging the values you selected from records 10--1 and 10--2."</p> <p>Email field should be listed as 'paul_beatles@noreply.edu'</p> <p>The Name field should have a value of Paul McCartney and the text2 box should have a value of vocalist.</p>	<p><input checked="" type="checkbox"/> <b>Pass</b></p> <p><b>Fail</b> <input type="checkbox"/></p>	
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	Open the Data Types form.			
	Log Out			
10.	<p>Log in as admin1005</p> <p>Click 'Project Setup' and click 'Edit project settings'</p> <p>Scroll down and use the dropdown next to 'Double Data Entry module' and select 'Disabled'.</p> <p>'Save Changes'</p> <p>Click the '17_DataComparisonTool_DDE_v1005' link</p> <p>Log Out</p>	<p>The 'Edit Project Settings' page opens.</p> <p>Changes are saved</p> <p>You are taken back to the project.</p>	<p><input checked="" type="checkbox"/> <b>Pass</b></p> <p><b>Fail</b> <input type="checkbox"/></p>	
	<b>THIS ENDS THE TESTING FOR THIS SCRIPT</b>			



# 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

Lyndsey Castle

Date:

19Mar2021