# Testing Report

### Team Name:

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| Description | The Research Assessment Program must operate within the Standard Operating Environment (SOE) of University computers, which are a mixture of Dell and Apple products that all run Windows 7 or Windows 8. |
| Type and Use Case | SWC |
| Criteria | The RAP application is compatible with Windows 7 or Windows 8 and will be run successfully in either Windows or Apple systems using Dell or Apple computers. |
| Method | Black box test:   1. Open an Apple computer 2. Open the C# programing files with Visual studio 3. Select entries in the Solution Explorer 4. The format and the return results of C# codes should be presented without errors 5. Open a Dell computer 6. Open the C# programing files with Visual studio 7. Select entries in the Solution Explorer 8. The format and the return results of C# codes should be presented without errors |
| Outcome | Pass |
| Method |  |
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| Description | Upon application start up, the user shall be presented with an interactive list of researchers (consisting of both staff and research students |
| Type and Use Case | SW UC8\_User\_views\_ResearcherList |
| Criteria | The application will provide a Researcher List view that includes a list of researcher names in the format ‘Family Name, Given Name (Title)’. The list may be filtered to show researcher names within a particular employment level or in student status via a drop-down list (A, B, C, D, E or Student Only).  Furthermore, the list may also be filtered to researcher staff names by entering part of a researcher’s name. |
| Method | Black box test:   1. Open the RAP application 2. The list of all researcher names should immediately be visible 3. Click the drop-down list 4. Select each option respectively in the list 5. The list contents should show all researcher names for the option made by the user 6. Entering part of a researcher’s name in the textbox under ‘Enter name to search’ label 7. The list contents should be restricted to show only those researchers whose given name or family name contains the text entered by the user |
| Outcome | Pass |
| Method | White box test:   1. Open the .sln file in Visual Studio 2. Navigate to FilterByType function in ResearcherListController.cs file 3. Change the string ‘type’ to either ‘Student’ or ‘Staff’ in the where condition 4. Run the application 5. Select ‘Students’ from the dropdown list 6. The Researcher List should be restricted to show only whose type is ‘Student’ or ‘Staff’, depending on which ‘type’ is put in the where condition 7. Change the string in step 3 back to the function parameter 8. Terminate the application 9. Navigate to FilterByLevel function in ResearcherListController.cs file 10. Change the string ‘level’ to one of ‘A’, ‘B’, ‘C’, ‘D’ or ‘E’ in the where condition 11. Run the application 12. Select one of the levels from the dropdown list 13. The Researcher List should be restricted to show only whose Level is ‘A’, ‘B’, ‘C’, ‘D’ or ‘E’, depending on which ‘level’ is put in the where condition 14. Change the string in step 10 back to the function parameter 15. Terminate the application |
| Outcome | Pass    Testing ‘Staff’ in the where condition |
| Method | White box test:   1. Open the .sln file in Visual Studio 2. Navigate to SearchByName function in ResearcherListController.cs file 3. Change the string ‘name’ to ‘ell’ or ‘oll’ in the where condition 4. Run the application 5. Type some strings in the NameTextBox 6. The Researcher List should be restricted to show only ‘Pell, Holly (Ms)’ 7. Close the application 8. Change the string value to some names like ‘sagfsdfghddfs’ in the where condition 9. Run the application 10. Type some strings in the NameTextBox 11. The Researcher List should be empty 12. Close the application 13. Change the string value back to the function parameter |
| Outcome | Pass    Testing ‘ell’ in the where condition    Testing ‘sadfassa’ in the where condition |

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| Description | When the user selects a name in the list the researcher details view will be displayed. |
| Type and Use Case | SW UC16\_User\_selects\_Researcher |
| Criteria | The application will provide a Researcher Details view. The interface will show the following basic details correctly, some of which are only available for staff and others only for students: Name (both); Title (both); School/Unit (both); Campus (both); Email (both); Photo (both); Current Job Title (both); Commenced with institution (both); Commenced current position (both); Tenure (both); Publications (both); 3-year Average (staff); Performance (staff); Supervisions (staff); Degree (students); Supervisor(students).  The display should have labels for each piece of information, with the values for 3-year average, Performance and Supervisions left blank for students and the values for Degree and Supervisor left blank for staff.  The Researcher Details view will also display a table of a staff member’s previous positions and those positions' start and end dates (not required for students). |
| Method | Black box test:   1. Select a staff researcher name in the researcher list (UC8\_User\_views\_ResearcherList) 2. The Detail Tab under primary details panel should be selected by default 3. The selected staff researcher details should immediately be visible 4. The photo should be presented as an image, while other basic details should be presented in correct figures and format 5. The values for Degree and Supervisor should be blank 6. The tab of position history details should be visible 7. Selecting position history tab should display the staff’s position history in correct format 8. Select a student researcher name in the researcher list (UC8\_User\_views\_ResearcherList) 9. The Detail Tab under primary details panel should be selected by default 10. The selected student researcher details should immediately be visible 11. The photo should be presented as an image, while other basic details should be presented in correct figures and format 12. The values for 3-year average, Performance and Supervisions should be blank 13. The tab of position history details should be invisible |
| Outcome | Pass |
| Method | White box test:   1. Open the .sln file in Visual Studio 2. In the MainWindow code-behind file, review the function named ResearcherListBox\_SelectionChanged 3. Use breakpoints to trace the flow of the process after selecting a researcher 4. The Researcher controller should be created inside the function 5. The selected listview item should be converted to a Researcher 6. If the researcher has not been loaded, call GetPrimaryDetails, GetOtherDetails, GetPublications in the pre-created researcher controller 7. The position history should be called as well if the researcher is a staff 8. Trace the flow of the function, the details should be retrieved from the database agency via the researcher controller 9. The prepared resources should be set to the controls |
| Outcome | Pass |

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| Description | As part of the Researcher Details view, located below the researcher’s primary details, the system shall show an interactive list of that researcher’s publications. |
| Type and Use Case | SW UC34\_User\_views\_Publications |
| Criteria | The application will provide a list of researcher publications located below the researcher’s primary details. Publications in this list should be formatted with the publication year followed by its title. The list should be presented from top to bottom with the most recent publications first. Publications within the same year shall be sorted alphabetically based on title.  The sort order of publications in the list may be inverted to that the oldest publications appear first via a drop-down list. Furthermore, The list contents may be filtered by entering a particular year range. |
| Method | Black box test:   1. Select a researcher name in the researcher list (UC8\_User\_views\_ResearcherList) 2. Click the Publication Tab 3. The list of researcher publications should immediately visible located below the researcher’s primary details 4. The publication years and titles should be sorted and presented as request 5. Select the drop-down list by clicking ‘Publication Year’ 6. Select the Oldest First 7. List contents should refresh, with publication year from the oldest to the newest 8. Select the Newest First 9. List contents should refresh, with publication year from the newest to the oldest 10. Enter a particular year range 11. List contents should refresh and display the publications only within the given year range |
| Outcome | Pass |
| Method | White box test:   1. Open the .sln file in visual studio 2. Navigate to ResearcherListBox\_SelectionChanged function in the MainWindow code-behind file 3. The selected researcher’s publications should be created 4. Go to the definition of the function that creates the publication list 5. Inside the researcher controller, it will call the function of loading the specific researcher’s publications inside the database agency function 6. Review the called function 7. Review the query that retrieves publication list for a specific which should be ordered by year descending 8. The required details for the publication list should be loaded |
| Outcome | Pass |