Testing Report

Group number 6: UC8_User_views_ResearcherList

Description	The system needs to present with an interactive list of researchers (consisting of both 'Staff' and 'Students').
Type and Use Case	SW UC8_User_views_ResearcherList
Criteria	The application will provide a researcher list view (including family and given names, their title, and category) employed by the University that is visually compact. The list should be able to be filtered based on particular category (Staff, Students, Level A, Level B, Level C, Level D, Level E) and further by entering part of the researcher's name.
Method	Black Box test 1. Open the RAP application 2. The list of researcher names should immediately be visible 3. Filter by Researcher to list all researchers. 4. The list of filtered researcher names should be visible again
Outcome	Fail, all researchers were only visible upon application startup. The list cannot be filtered to view all researchers again.
Method	White Box test 1. `public ObservableCollection<Researcher> FilterResearcherbyName(string name)` ```csharp\npublic ObservableCollection<Researcher>\nFilterResearcherbyName(string name)\n {\n var result = from Researcher r in Researchers\n where\nr.GivenName.ToUpper().Contains(name.ToUpper())\n select r;\n\n return new\nObservableCollection<Researcher>(result.ToList());\n }\n\n public ObservableCollection<Researcher>\nFilterResearcherbyLevel(LEVEL level)\n {\n var result = from Researcher r in Researchers\n where r.Level == level\n select r;\n\n return new\nObservableCollection<Researcher>(result.ToList());\n }\n``` 2. Filter researchers to view 'all' researchers. 3. The list of filtered researcher names should be visible again.
Outcome	Pass
Method	Black Box test 1. Open the RAP application 2. The list of researcher names should immediately be visible 3. Filter by Researcher to list Staff only.

	4. The list of filtered researcher names should be visible again
Outcome	Pass.
Method	Black Box test 1. Open the RAP application 2. The list of researcher names should immediately be visible 3. Filter by Researcher to list students only. 4. The list of filtered researcher names should be visible again
Outcome	Pass.
Method	Black Box test 1. Open the RAP application 2. The list of researcher names should immediately be visible 3. Filter by Researcher to list all researchers, students only, level A, level B, level C, level D, level E. 4. The list of filtered researcher names should be visible again
Outcome	Pass.
Method	Black Box test 1. Open the RAP application 2. The list of researcher names should immediately be visible 3. Filter by Researcher to list researchers belonging to level A, level B, level C, level D, level E. 4. The list of filtered researcher names should be visible again
Outcome	Pass.

Group number 6: UC16_User_selects_Researcher

Description	When the user selects a name from the researcher's list the system needs to view the researcher details.
Type and Use Case	SW UC16_User_selects_Researcher
Criteria	The application will provide the researcher details with the following basic details, 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).
Method	Black Box test 1. Select 'Staff' from the 'filter by name' drop-down list. 2. The list of researcher names should change. 3. Select a researcher from the filtered researchers list. 4. The researcher's details should immediately be visible. 5. Select each entry in filtered list (UC8_User_views_ResearcherList) and confirm they are 'staff'.
Outcome	Pass.
Method	Black Box test

	1. Select 'Student' from the 'filter' drop-down list.
	2. The list of researcher names should change.
	3. Select a researcher from the filtered researchers list.
	4. The researcher's details should immediately be visible.
	5. Select each entry in filtered list (UC8_User_views_ResearcherList) and confirm they are 'student'.
Outcome	Fail, the specifications remained unchanged for both staff and students.
Method	White Box test
	1. Access data for Student.
	2. `Degree = rd.IsDBNull(9) ? "" : rd.GetString(9),`
	3. `SupervisorID = rd.IsDBNull(10) ? 0 : rd.GetInt32(10),`
	4. `SupervisorGivenName = rd.IsDBNull(14) ? "" : rd.GetString(14),`
	5. `SupervisorFamilyName = rd.IsDBNull(14) ? "" : rd.GetString(15),`
	5. Display information related to student.
Outcome	Pass.
Method	Black Box test
	1. Select 'Level A' from the 'filter' drop-down list.
	2. The list of researcher names should change.
	3. Select a researcher from the filtered researchers list.
	4. The researcher's details should immediately be visible.
	5. Select each entry in filtered list (UC8_User_views_ResearcherList) and confirm they are 'level A'.
Outcome	Pass.
Method	Black Box test
	1. Select 'Level B' from the 'filter' drop-down list.
	2. The list of researcher names should change.
	3. Select a researcher from the filtered researchers list.
	4. The researcher's details should immediately be visible.
	5. Select each entry in filtered list (UC8_User_views_ResearcherList) and confirm they are 'level B'.
Outcome	Pass.
Method	Black Box test
	1. Select 'Level C' from the 'filter' drop-down list.
	2. The list of researcher names should change.
	3. Select a researcher from the filtered researchers list.
	4. The researcher's details should immediately be visible.
	5. Select each entry in filtered list (UC8_User_views_ResearcherList) and confirm they are 'Level C'.
Outcome	Pass.
Method	Black Box test
	1. Select 'Level D' from the 'filter' drop-down list.
	2. The list of researcher names should change.
	3. Select a researcher from the filtered researchers list.
	4. The researcher's details should immediately be visible.
	5. Select each entry in filtered list (UC8_User_views_ResearcherList) and confirm they are 'Level D'.
Outcome	Pass.
Method	Black Box test

	1. Select 'Level E' from the 'filter' drop-down list.
	2. The list of researcher names should change.
	3. Select a researcher from the filtered researchers list.
	4. The researcher's details should immediately be visible.
	5. Select each entry in filtered list (UC8_User_views_ResearcherList) and confirm they are 'Level E'.
Outcome	Pass.

Group number 6: UC29_User_expands_Supervision

Description	The system could allow the user to expand the number of supervisions displayed to show a list of those students' names.
Type and Use Case	SW and UC29_User_expands_Supervisions
Criteria	The system will be able to display a list of supervisions in a message box.

Method	Black box test:
	  1. Select 'staff' from the drop down in the researcher's list (UC8_User_views_ResearcherList) and confirm they are 'staff'.
	  2. Click on the button 'show names' to view supervision names.
	  3. The list of student names should immediately be visible.

Outcome	Pass.

Method	Black Box test:
	  1. Select 'staff' from the drop down in the researcher's list (UC8_User_views_ResearcherList) and confirm they are 'student'.
	  2. Click on the button 'show names' to view supervision names.
	  3. 'No supervisions' message box should immediately be visible.

Outcome	Pass.

Group number 6: UC32_User_views_CumulativeCount

Description	The system needs to be able to generate a tabular view of a researcher's cumulative number of publications by year, starting with their earliest years of employment.
Type and Use Case	SW and UC32_User_views_CumulativeCount
Criteria	The application will provide researcher's cumulative number of publications in tabular view. This can be accessed via a button, as part of researcher's detailed view. The message box displays a table that starts with their earliest year of employment.

Method	Black box test:
	  1. Select an entry from the researcher list (UC8_User_views_ResearcherList).
	  2. Click on the button 'cumulative count ' to display researcher's cumulative number of publications by year in a tabular view.
	  3. The specified table should immediately be visible.
	  4. Confirm the above steps for each entry from the filtered list(UC8_User_views_ResearcherList).

Outcome	Pass.

Group number 6: UC34_User_views_Publications

Description	The system needs to be able to generate an interactive list of researcher's publications, as part of the Researcher Details view, located below the researcher's primary details.
Type and Use Case	SW and UC34_User_views_Publications
Criteria	The application shall provide a list of publications to view the publication list formatted with the publication year followed by its title.The list is sorted from top to bottom with the most recent publications first,based on their year of publication. Publications within the same year is sorted from top to bottom with the most recent publications first. The user can also filter with oldest publications first or give year range using search bar option. The list can also be inverted if required.
Method	Black box test: 1. Select an entry from the researcher list (UC8_User_views_ResearcherList). 2. The publicationion table should immediately be visible as part of the researcher detailview. 3. The list is initially sorted with the most recent publications first, based on the year of publication.
Outcome	Pass
Method	Black box test: 1. Select an entry from the researcher list (UC8_User_views_ResearcherList). 2. The publicationion table should immediately be visible as part of the researcher detailview. 3. The list can be inverted by accessing the button 'invert' provided above the publications table
Outcome	Pass
Method	Black box test: 1. Select an entry from the researcher list (UC8_User_views_ResearcherList). 2. The publication table should immediately be visible as part of the researcher detailview. 3. The list of publications within the same year can be sorted from top to bottom with the most recent publications first.
Outcome	Fail, The list remains unchanged after step 2.

Method	Black box test: 1.Select an entry from the researcher list (UC8_User_views_ResearcherList). 2.The publication table should immediately be visible as part of the researcher detailview. 3.The list of publications can be viewed by specifying a year range in the space provided above the publications tab. The user can also filter with oldest publications first or give year range using search bar option
Outcome	Pass.

Group number 6: UC 40_User_selects_Publication

Description	When the user selects a publication in the list, the Publication Details view will be displayed.
Type and Use Case	SW UC40_User_selects_Publication
Criteria	The application will provide a publication details, as part of publication details view, when the user selects a publication corresponding to a researcher. These details include: DOI; Title; Authors; Publication year; Type (one of 'Conference', 'Journal' or 'Other'); Cite as (this is a single string obtained from the Employment and Researcher Database); Availability date (the date when the publication was first available, which may differ from the publication year); Age (the days elapsed since the publication became available; this can be negative if the availability date is in the future).
Method	Black box test: 1. Select a publication from UC34_User_views_Publications. 2. Confirm the publication details are specific to each entry of UC34_User_views_Publications.
Outcome	Pass.

Group number 6: UC43_User_generates_Report

Description	The system needs to be able to generate lists of researchers performing well and those performing poorly and display their performance report.
Type and Use Case	SW and UC43_User_generates_Report.
Criteria	The application can generate four reports which are rated by Poor (below 70%), Below Expectations (70%-110%), Meeting Minimum (110%-200%) and Star Performers (above 200%), when users click on the researcher's name, the report detail will show up.

Method	Black box test:
	1. Select 'show report' drop down button from publication detail view.
	2. Select "Poor" from the drop-down list.
	3. The list of researcher's names below 70% should immediately be visible.
Outcome	Fail, the list doesn't display as specified due to data parsing error.
Method	Black box test:
	1. Select 'show report' drop down button from publication detail view.
	2. Select "Below expectations" from the drop-down list.
	3. The list of researcher's names who has scored between 70% and 110% should immediately be visible.
Outcome	Pass.
Method	Black box test:
	1. Select 'show report' drop down button from publication detail view.
	2. Select "Meeting Minimum" from the drop-down list.
	3. The list of researcher's names who has scored at or above 110% should immediately be visible.
Outcome	Pass
Method	Black box test:
	1. Select 'show report' drop down button from publication detail view.
	2. Select "Star Performers" from the drop-down list.
	3. The list of researcher's names who has scored at or above 200% should immediately be visible.
Outcome	Pass.

Group number 6: UC51_User_copies_ReportEmails

Description	The system needs to be able to copy the email addresses of those listed in a report to the clipboard.
Type and Use Case	SW and UC51_User_copies_ReportEmails
Criteria	The application will allow to copy the email addresses of those listed in report to the clipboard. This can be accessed via a button located in publication detail view which is viewed after selecting a researcher.
Method	Black box test:
	1. Select a researcher from each filtered list (UC43_User_generates_Report).
	2. Click on 'Copy email' to copy the email address of the selected researcher.
	3. Confirm by pasting the email address in 'to' space of any email application.
Outcome	Pass.