# Testing Report

### Team Name: [Group # 14](javascript://)

Note: GitHub repository link below

<https://github.com/DipPandey/Group-14---KIT206/graphs/code-frequency>

*User case 8*

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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), known hereafter as the Researcher List view. |
| Type and Use Case | The type is SW. The user case is UC8\_User\_views\_ResearcherList |
| Criteria | 1.The Researcher List view is visible to the user after the application starts.  2. The user can interact with the list.  3. The list contains both staff and research students. |
| Method | For this test, we used black box testing. Due to this some data input was needed. The data used was as follows staff John King, student Bob Smith. This data was used as the list must contain staff and student researchers. Therefore at least one of each was required.  For this test, we used black box testing. Due to this some data input was needed. The data used was as follows student Marie Hawk, student Bob Smith, staff John King, staff Eliza Way. This data was used to test that the list still worked with more than one student and more than one staff member.  For this test, we used white box testing. This was done to check that the researcher list was structured and displayed properly. |
| Outcome | Both black box tests were a pass. The white box test was also a pass because both application starts and the researcherlist is visible |

*User case 16*

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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 | The type is SW. The user case is UC16\_User\_selects\_Researcher |
| Criteria | 1. The user can select a name in the list. 2. The researcher detail’s view is displayed to the user when a name is selected. 3. The researcher details received by the user are the ones of the person they selected. |
| Method | For this test, we used white box testing. This was done to check that the researcher details view was structured and displayed properly when the user selects a name.  For this test, we used black box testing. Due to this some data input was required. The data used was staff John King. The idea was to check that the name selected was the same as the details that came up. |
| Outcome | Data could not be entered into the list. Due this both the black box tests were a fail as they require data to work. The white box test was a fail as the user could not select a name. This is due to the list not having any names in in. |

*User Case 29*

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| 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 | The type is NTH SW. The user case is UC29\_User\_expands\_Supervisions |
| Criteria | 1. The user is shown a list of student names if they expand the number of supervisions that are displayed. 2. The number of supervisions matches up correctly with the list of students. |
| Method | For this test, we used white box testing. This was done to check that that the number of supervisions was structured and displayed correctly.  For this test, we used black box testing. Due to this some data input was required. The data used was student Bob Smith, student Marie Hawk. The idea was to check that the number of supervisions matched up with the number of students. In this case they should both equal 2.  For this test, we used black box testing. Due to this some data input was required. The data used was student Bob Smith, student Marie Hawk, student Dug Daniels. The idea was to check that the number of supervisions matched up with the number of students even when the number of students was higher. In this case they should both equal 3. |
| Outcome | Data could not be entered into the list. Due this both the black box tests were a fail as they require data to work. The white box test was a fail as the number of supervisions was not displayed. This is due to not having any data. |

*User Case 32*

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| --- | --- |
| Description | : It would enhance the application if the user could display a tabular view of a researcher’s cumulative number of publications by year, starting with their earliest year of employment. |
| Type and Use Case | The type is NTH SW. The user case is UC32\_User\_views\_CumulativeCount |
| Criteria | 1. The user can view a list of a researcher’s cumulative number of publications every year. 2. They can view this list in tabular form. 3. The list starts at the researcher’s first year of employment. |
| Method | : For this test, we used black box testing. Due to this some data input was required. The data used was staff John King 1999. This data was used so that we could see whether the list could display the culminative number of publications per year for a given staff researcher. In this case, the researcher was John King and their first year of researching was 1999.  For this test, we used black box testing. Due to this some data input was required. The data used was student Dug Daniels 2007. This data was used so that we could see whether the list could display the culminative number of publications per year for a given student researcher. In this case, the researcher was Dug Daniels and their first year of researching was 2007.  For this test, we used white box testing. This was done to check that the culminative publications list was structured and displayed correctly. This way we could check that it could be displayed in tabular form. |
| Outcome | Data could not be entered into the list. Due this both the black box tests were a fail as they require data to work. The white box test was a fail as the cumulative number of publications was not displayed. This is due to not having any data and connection to the database. |

*User Case 34*

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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 | The type is SW. The user case is UC34\_User\_views\_Publications |
| Criteria | 1. The user can see the publications list while in the researcher details view. 2. The publications list is interactive. 3. The list is located below the researcher’s primary details. |
| Method | For this test, we used white box testing. This was done to check that the publications list was structured and displayed correctly. We did not use black box testing as there was no useful input data in this user case. |
| Outcome | The result for this test was a pass as the researchers’ publications are shown and the interactive list is available |

*User Case 40*

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| Description | When the user selects a publication in the list the Publication Details view will be displayed |
| Type and Use Case | The type is SW. The user case is UC40\_User\_selects\_Publication |
| Criteria | 1. The user can select a publication from the publications list. 2. The user can see the Publications Details view after selecting a publication. |
| Method | For this test, we used white box testing. This was done to check that the publications list and the publication details were structured and displayed correctly.  For this test, we used black box testing. Due to this data input was required. The data used was publication 01. The idea was to check that the publication details view was displayed after the user selected a publication. In this case, the selected publication was called publication 01.  For this test, we used black box testing. Due to this data input was required. The data used was publication 04. The idea was to check that the publication details view was displayed after the user selected a publication. This time we tested it with a different publication to see if it still worked. |
| Outcome | Data could not be entered into the list. Due this both the black box tests were a fail as they require data to work. The white box test was a fail as the publication details were not displayed correctly. This is due to not having any data on the relevant researcher. |

*User Case 43*

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| Description | When the user selects a publication in the list the Publication Details view will be displayed |
| Type and Use Case | It would enhance the system if the user could generate lists of researchers performing well and those performing poorly, based on their publication performance metric. |
| Criteria | 1. User can generate a list of researchers performing well. 2. User can generate a list of researchers performing badly. 3. The lists are based on the researcher’s publication performance metric score. |
| Method | For this test we used black box testing. Due to this some data input was required. The data used was Dug Daniels PPMS (50). This was used to see whether the user could generate a list of researchers performing well or badly based on the score. Note PPMS stands for publication performance metric score. In this case the score used was 50.  For this test we used black box testing. Due to this some data input was required. The data used was Bob Smith PPMS (207). This was used to see whether the user could generate a list of researchers performing well or badly based on the score. In this case the score used was much higher than the last test. This was done to see if it affected the results.  For this test, we used white box testing. This was done to check that the generated lists were displayed and structured correctly. |
| Outcome | Data could not be entered into the list. Due this both the black box tests were a fail as they require data to work. The white box test was a fail as the lists could not be generated properly. This is due to not having any data to put in the generated lists. White box testing was a fail because the publication metric class was not successful. |

*User Case 51*

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| Description | : It would further enhance the system if the user could copy the email addresses of those listed in a report to the clipboard. |
| Type and Use Case | The type is NTH SW. The user case is UC51\_User\_copies\_ReportEmails |
| Criteria | 1. User can see researchers listed in a report. 2. User can copy their email address to the clipboard. |
| Method | For this test, we used black box testing. Due to this some data input was required. The data used was Bob Smith, Eliza Way, Dug Daniels. The idea was to check that the user could copy a researcher’s email address across to the clipboard.  For this test, we used black box testing. Due to this some data input was required. The data used was John King, Marie Hawk. The idea was to check that the user could copy a researcher’s email address across to the clipboard. This test was designed to see if it still worked with less researchers to choose from. We did not use white box testing as everything should be structured correctly at this point. |
| Outcome | The email cannot be copied to the clipboard as the white box for this requirement has failed and the application is not able to access the email list from the database. |