Logo

Description automatically generated

School of Computing, Engineering and Built Environment

Department of Computing

**Mobile Platform Development**

**Session 2021-22**

**Coursework 2**

Alexandra Neal

S0906781

“I declare that all work submitted for this coursework is the work of Alexandra Neal alone unless stated otherwise”

# GitHub Repository

Please find below a link to the GitHub repository created the following:

* Video Link
* Android Project
* Project .apk file

<https://github.com/lexieneal/Neal_Alexandra_S0906781>

# Testing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No | Test Case | Input Value | Expected Results | Actual Result | Pass/Fail | Additional Info |
| 1 | User is able to view live data through RSS feed for each selection. Data in application is the same as the RSS feed. | Roadworks | The RSS feed, Traffic Scotland website and developed application should all have the same amount of items pulled at one time. | As expected, number on RSS feed matches application output: 371 | Pass | **See Appendix 1**  *Note: XML Viewer used on RSS feed to identify number of items* |
| 2 | User is able to view live data through RSS feed for each selection. Data in application is the same as the RSS feed. | Planned Roadworks | The RSS feed, Traffic Scotland website and developed application should all have the same amount of items pulled at one time. | As expected, number on RSS feed matches application output: 587 | Pass | **See Appendix 2**  *Note: XML Viewer used on RSS feed to identify number of items* |
| 3 | User is able to view live data through RSS feed for each selection. Data in application is the same as the RSS feed. | Incidents | The RSS feed, Traffic Scotland website and developed application should all have the same amount of items pulled at one time. | Only 5 items on RSS feed however 8 on application output | Fail | **See Appendix 3**  *Note: XML Viewer used on RSS feed to identify number of items* |
| 4 | User is able to select an option and view live overview of traffic items from RSS feed | N/A | When selecting the ‘Roadworks’ button a loading wheel will appear and then the data from the RSS feed will be displayed below | As expected | Pass |  |
| 5 | User is able to select an option and view live overview of traffic items from RSS feed | N/A | When selecting the ‘Planned Roadworks’ button a loading wheel will appear and then the data from the RSS feed will be displayed below | As expected | Pass |  |
| 6 | User is able to select an option and view live overview of traffic items from RSS feed | N/A | When selecting the ‘Incidents’ button a loading wheel will appear and then the data from the RSS feed will be displayed below | As expected | Pass |  |
| 7 | User is able to select an individual traffic item to view additional information | N/A | When the User selects any item from the list on the main page they will be taken to a new page with additional information | As expected | Pass |  |
| 8 | User is able to select an individual traffic item to view additional information | N/A | When the User selects any item from the list on the main page they will be taken to a new page with additional information | As expected | Pass |  |
| 9 | User is able to select an individual traffic item to view additional information | N/A | When the User selects any item from the list on the main page they will be taken to a new page with additional information | As expected | Pass |  |
| 10 | User is able to search for a specific date | Jul 05 | User enters date in the same format as traffic item and matching items are filtered and appear | As expected | Pass |  |
| 11 | User is able to search for a specific date | Sep 02 | User enters date in the same format as traffic item and matching items appear including between the start and end date | As expected | Pass |  |
| 12 | User is able to search for a specific date | September 03 | User enters date in a different format to the traffic items and matching items still appear | As expected | Pass |  |
| 13 | User is able to search for a specific road | A19 | User enters a road in the ‘Roadworks’ section and only items for that road are returned | Also returns items for A1, so search will include anything that matches each character in the search bar not only the road itself | Fail |  |
| 14 | User is able to search for a specific road | M8 | User enters a road in the ‘Planned’ section and only items for that road are returned | Does not only show traffic items that exactly match M8, but all items that include M8 in some way so also M876 | Fail |  |
| 15 | User is able to identify length of time with aid of colour representation | N/A | User is able to clearly see the duration for each traffic item and a colour coded indication of time taken | As expected | Pass |  |
| 16 | User is able to view main application in both portrait and landscape mode | Portrait | User is able to view main application screen in portrait mode | As expected | Pass | See Appendix 4 |
| 17 | User is able to view main application in both portrait and landscape mode | Landscape | User is able to view main application screen in landscape mode | As expected | Pass | See Appendix 5 |
| 18 | User is able to view main application in both portrait and landscape mode | Portrait | User is able to view additional details page in portrait mode | As expected | Pass | See Appendix 4 |
| 19 | User is able to view main application in both portrait and landscape mode | Landscape | User is able to view additional details page in landscape mode | As expected | Pass | See Appendix 5 |

# Appendices

## Appendix 1: Supporting Screenshots from Test 1

Logcat showing total items parsed from Roadworks RSS feed



## Appendix 2: Supporting Screenshots from Test 2

Logcat showing total items parsed from Planned Roadworks RSS feed



## Appendix 3: Supporting Screenshots from Test 3

Logcat showing total items parsed from Incidents RSS feed



## Appendix 4: Supporting Screenshots from Test 16 & 18

Text

Description automatically generatedMain Application View and Additional Information View in Portrait Mode

Graphical user interface, application

Description automatically generated

## Appendix 5: Supporting Screenshots from Test 17 & 19

Main Application View and Additional Information View in Landscape Mode Graphical user interface, application, table

Description automatically generated

Graphical user interface, text, application

Description automatically generated