



School of Computing, Engineering and Built Environment
Department of Computing

Mobile Platform Development

Session 2021-22

Coursework 2

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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 <i>Note: XML Viewer used on RSS feed to identify number of items</i>
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 <i>Note: XML Viewer used on RSS feed to identify number of items</i>
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 <i>Note: XML Viewer used on RSS feed to identify number of items</i>
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	<div> <div>Roadworks</div> <div>Search for road or date...</div> <div> <div>A90 Fastlink</div> <div>Mon Apr 11 - Mon Apr 11</div> <div>0 Hrs</div> </div> <div> <div>M74 SB J22 ENTRY SLIP ROAD</div> <div>Mon Apr 04 - Fri Apr 22</div> <div>432 Hrs</div> </div> <div> <div>M74 NB J15-J14 MP-92/7 TO MP-76/7</div> <div>Sun Apr 10 - Thu Apr 14</div> <div>96 Hrs</div> </div> </div>
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	<div> <div>Planned Roadworks</div> <div>Search for road or date...</div> <div> <div>A19</div> <div>Tue Apr 19 - Sat Apr 23</div> <div>96 Hrs</div> </div> <div> <div>A19</div> <div>Tue Apr 19 - Sat Apr 23</div> <div>96 Hrs</div> </div> <div> <div>A1</div> <div></div> <div></div> </div> </div>

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	<div>Incidents</div> <div>Search for road or date...</div> <div>M8 Jct 15 - Jct 18 - Planned Roadworks</div> <div>M8 J27 - J26 Arkleston - Hillington - Queue</div>
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	<div>Location of Roadworks</div> <div>M74 NB J15-J14 MP-92/7 TO MP-76/7</div> <div>Roadworks Duration 96 hrs</div> <div>More Information</div> <div>Start Date: Sunday, 10 April 2022 - 00:00 End Date: Thursday, 14 April 2022 - 00:00 Delay Information: No reported delay.</div>
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	<div>Location of Roadworks</div> <div>A19</div> <div>Roadworks Duration 96 hrs</div> <div>More Information</div> <div>Start Date: Tuesday, 19 April 2022 - 00:00 End Date: Saturday, 23 April 2022 - 00:00 TYPE : AWP Location : The A19 southbound entry slip from the A1056 Reason : Roadworks are planned S</div>

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	<div>Location of Roadworks</div> <div>M8 JCT 15 - JCT 18 - PLANNED ROADWORKS</div> <hr/> <div>Roadworks Duration</div> <hr/> <div>More Information</div> <p>The M8 both Eastbound and Westbound between Junctions 15 and Junction 18 is currently restricted due to essential bridge repairs. Motorists are advised to expect delays in the area.</p> <div>Planned Roadworks</div> <div>Jul 05</div> <div>M90 J9 Muirmont Bridge of Earn NB - Hard Shoulder Closure Mon Apr 25 - Tue Jul 05</div> <div>1704 Hrs</div>
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	<div>Roadworks</div> <div>Sep 02</div> <div>A83 Rest and Be Thankful Tue Sep 01 - Fri Jun 10</div> <div>15528 Hrs</div>
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	<div>Roadworks</div> <div>September 03</div> <div>A83 Rest and Be Thankful Tue Sep 01 - Fri Jun 10</div> <div>15528 Hrs</div>
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	<div>Roadworks</div> <div>A19</div> <div>A1 Old Craighall Jct - Signage Mon Jan 17 - Mon Jan 16</div> <div>8736 Hrs</div>
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	<div>Planned Roadworks</div> <div>M8</div> <div> M876 Jcn 1 on slip - closure Thu Apr 14 - Sat Apr 16 48 Hrs </div> <div> M8 Rail Bridge west of Jcn 2 - lane closure Wed Apr 13 - Thu Apr 14 24 Hrs </div> <div> M8 Rail Bridge west of Jcn 2 - lane closure Thu Apr 14 - Fri Apr 15 24 Hrs </div>
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	<div> A702 Whole Route - Stop Go Thu Apr 07 - Tue Apr 12 120 Hrs </div> <div> A702 Nine Mile Burn - TTLs Mon Apr 11 - Wed Apr 13 48 Hrs </div> <div> A702 Nine Mile Burn - TTLs Mon Apr 11 - Wed Apr 13 48 Hrs </div> <div> A7 WHOLE ROUTE - CYCLIC Mon Apr 04 - Fri Apr 15 264 Hrs </div> <div> A702 WHOLE ROUTE - CYCLIC Mon Apr 04 - Fri Apr 15 264 Hrs </div>
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

```
neal_alexandra_s0906781 D/MyTag: Total items parsed: 371
```

Appendix 2: Supporting Screenshots from Test 2

Logcat showing total items parsed from Planned Roadworks RSS feed

```
neal_alexandra_s0906781 D/MyTag: Total items parsed: 587
```

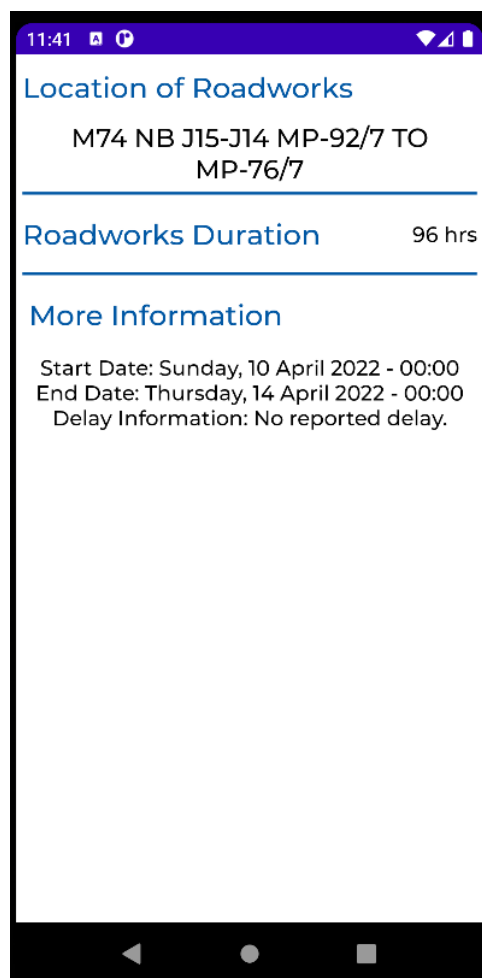
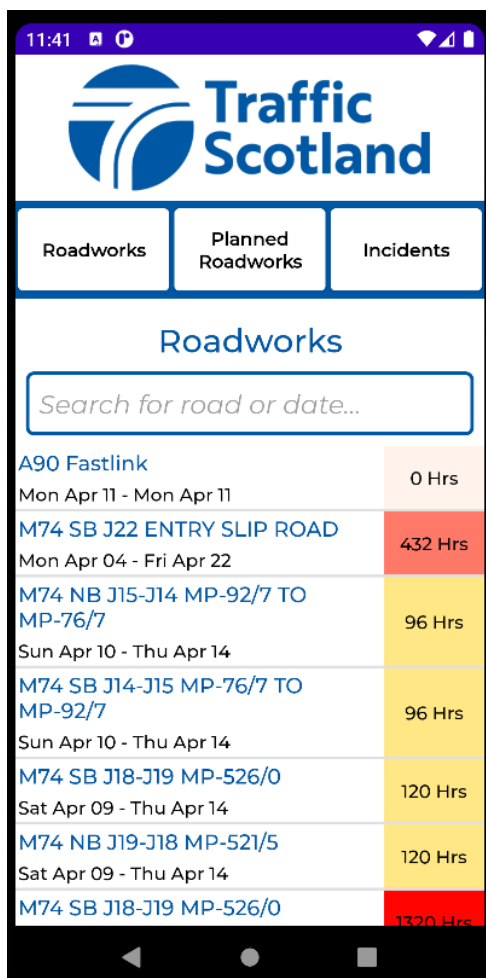
Appendix 3: Supporting Screenshots from Test 3

Logcat showing total items parsed from Incidents RSS feed

```
neal_alexandra_s0906781 D/MyTag: Total items parsed: 8
```

Appendix 4: Supporting Screenshots from Test 16 & 18

Main Application View and Additional Information View in Portrait Mode



Appendix 5: Supporting Screenshots from Test 17 & 19

Main Application View and Additional Information View in Landscape Mode

Traffic Scotland

Roadworks Planned Roadworks Incidents

Roadworks

Search

A90 Fastlink	Mon Apr 11 - Mon Apr 11	0 Hrs
M74 SB J22 ENTRY SLIP ROAD	Mon Apr 04 - Fri Apr 22	432 Hrs
M74 NB J15-J14 MP-92/7 TO MP-76/7	Sun Apr 10 - Thu Apr 14	96 Hrs
M74 SB J14-J15 MP-76/7 TO MP-92/7	Sun Apr 10 - Thu Apr 14	96 Hrs
M74 SB J18-J19 MP-526/0	Sat Apr 09 - Thu Apr 14	120 Hrs

Location of Roadworks

M74 NB J15-J14 MP-92/7 TO MP-76/7

Roadworks Duration

96 hrs

More Information

Start Date: Sunday, 10 April 2022 - 00:00
End Date: Thursday, 14 April 2022 - 00:00
Delay Information: No reported delay.