School of Computing, Engineering and Built Environment

Department of Computing

Mobile Platform Development

Session 2021-22

Coursework 2

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S0906781

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	**Incidents** *Search for road or date...* M8 Jct 15 - Jct 18 - Planned Roadworks M8 J27 - J26 Arkleston - Hillington - Queue
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	**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.
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	**Location of Roadworks** A19 **Roadworks Duration** 96 hrs **More Information** 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

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

```
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
```
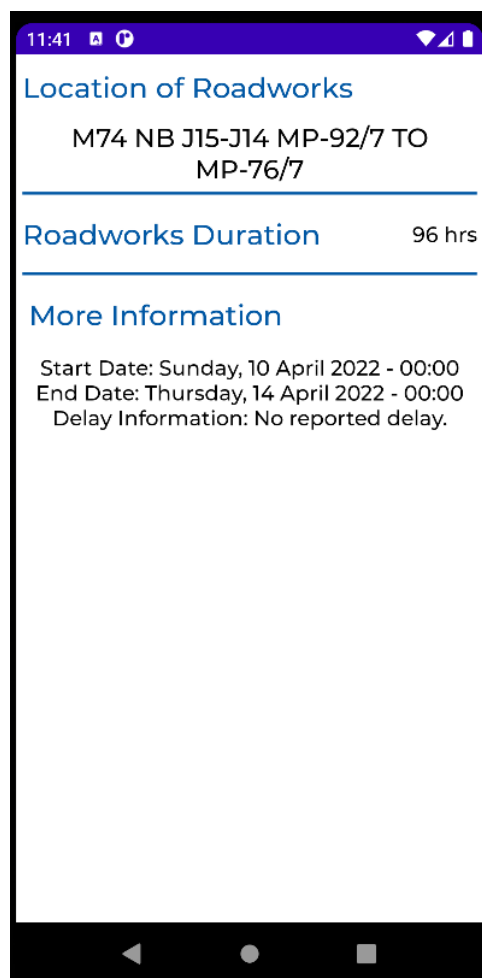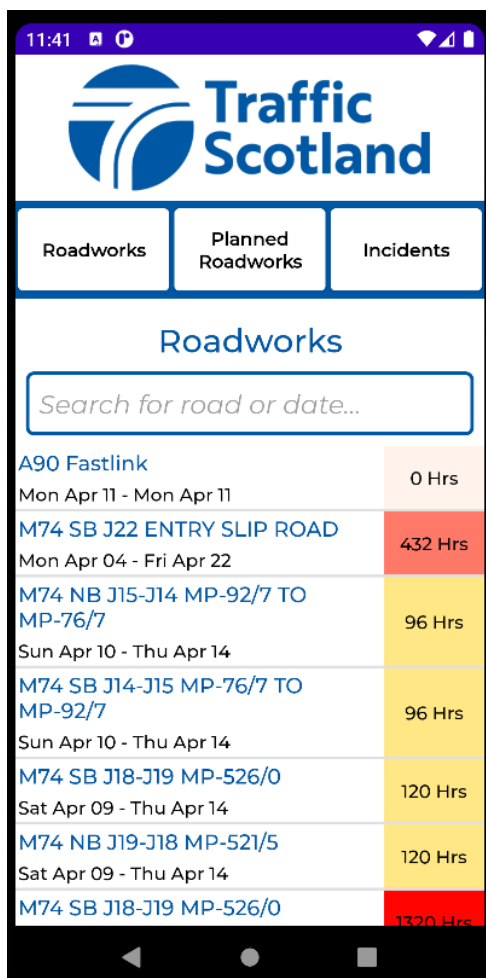
Appendix 3: Supporting Screenshots from Test 3

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