# Roadway: Scottish traffic information application

## Application video: <https://github.com/ryanmcowan/scottishroadwayapp/blob/master/Cowan_Ryan_S1824861_Video.mp4>

## Android Studio project:

<https://github.com/ryanmcowan/scottishroadwayapp/tree/master/Cowan_Ryan_S1824861>

## Application APK:

<https://github.com/ryanmcowan/scottishroadwayapp/blob/master/Cowan_Ryan_S1824861_RoadWayApp.apk>

# Testing method

Each function within the application is tested individually along with their expected result and the actual result that was produced from the test. The tests will then be marked with a pass or fail based on the actual result produced from the test. Each test will be performed twice on both portrait and landscape orientation and any inconsistencies will be logged in detail.

## **Portrait orientation**

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Expected Result | Actual Result | Pass/Fail |
| Splash screen | Splash screen should load as application launches | Splash loaded as expected | Pass |
| Allow access to user location | User is prompted if they wish to share location with app | Prompt opens giving option to share location | Pass |
| Incident list | Incident list should populate with the latest results via the feed | Incident tab displays the current incidents | Pass |
| Road works list | Road works list should populate the page with the latest results via the feed | Roadworks tab displays the current road works | Pass |
| Planned roadworks list | Planned road works list should populate the page with the latest results via the feed | Planned roadworks tab displays the current road works | Pass |
| Individual Incident details | Upon clicking on an incident, the application displays details on the incident – Location, Start date, end date and delay info. | The correct details are returned upon clicking on the incident | Pass |
| Individual road work details | Upon clicking on individual roadwork event, the application displays details on the event – Location, start date, end date and delay information | The correct details are returned upon clicking on the road work event | Pass |
| Individual planned road works details | Upon clicking on individual roadworks event, the application displays details on the event – Location, start date, end date and delay information | The correct details are returned upon clicking on the planned road work event | Pass |
| Map tab on individual incident event | Sends user to the google map page with the current event highlighted and providing more details | Google maps is loaded cantered on the currently selected event | Pass |
| Map tab on individual road work event | Sends user to the google map page with the current event highlighted and providing more details | Google maps is loaded cantered on the currently selected event | Pass |
| Map tab on individual planned road work event | Sends user to the google map page with the current event highlighted and providing more details | Google maps is loaded cantered on the currently selected event | Pass |
| Navigate to another event while on map screen | User should be presented with other icons on the map to represent other individual event that can be interacted with to view more details | After clicking on another event within the map page user can navigate between events | Pass |
| Side nav navigation | Upon clicking the menu icon user should be displayed with the side nav as an option to navigate feed tabs and browse near me | Upon clicking the menu icon side nav was opened and navigation was possible to the individual feeds | Pass |
| Near me function | User should be able to filter events based on their radius at pre-set values 5, 10, 15, 20, 25, 50, 100km and display all events. | While choosing individual pre-set radius no feeds were displayed. However, displaying all feeds worked correctly. | Fail\*  \*This is potentially due to the location of my ISP in my student accommodation which displays my IP as Manchester. Would have to test outside of the emulator on an android phone which I do not have access to at the time. |
| Search box | Upon entering text into the search box, the feed should be filtered. For example, typing in “M6” should return on events on the feed involving the M6. | Upon entering M6 in the search box the list was filtered correctly and returned only events related to the M6. | Pass |

## **Landscape orientation**

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Expected Result | Actual Result | Pass/Fail |
| Splash screen | Splash screen should load as application launches | Splash loaded as expected | Pass |
| Allow access to user location | User is prompted if they wish to share location with app | Prompt opens giving option to share location | Pass |
| Incident list | Incident list should populate with the latest results via the feed | Incident tab displays the current incidents | Pass |
| Road works list | Road works list should populate the page with the latest results via the feed | Roadworks tab displays the current road works | Pass |
| Planned roadworks list | Planned road works list should populate the page with the latest results via the feed | Planned roadworks tab displays the current road works | Pass |
| Individual Incident details | Upon clicking on an incident, the application displays details on the incident – Location, Start date, end date and delay info. | The correct details are returned upon clicking on the incident | Pass |
| Individual road work details | Upon clicking on individual roadwork event, the application displays details on the event – Location, start date, end date and delay information | The correct details are returned upon clicking on the road work event | Pass |
| Individual planned road works details | Upon clicking on individual roadworks event, the application displays details on the event – Location, start date, end date and delay information | The correct details are returned upon clicking on the planned road work event | Pass |
| Map tab on individual incident event | Sends user to the google map page with the current event highlighted and providing more details | Google maps is loaded cantered on the currently selected event | Pass |
| Map tab on individual road work event | Sends user to the google map page with the current event highlighted and providing more details | Google maps is loaded cantered on the currently selected event | Pass |
| Map tab on individual planned road work event | Sends user to the google map page with the current event highlighted and providing more details | Google maps is loaded cantered on the currently selected event | Pass |
| Navigate to another event while on map screen | User should be presented with other icons on the map to represent other individual event that can be interacted with to view more details | After clicking on another event within the map page user can navigate between events | Pass |
| Side nav navigation | Upon clicking the menu icon user should be displayed with the side nav as an option to navigate feed tabs and browse near me | Upon clicking the menu icon side nav was opened and navigation was possible to the individual feeds | Pass |
| Near me function | User should be able to filter events based on their radius at pre-set values 5, 10, 15, 20, 25, 50, 100km and display all events. | While choosing individual pre-set radius no feeds were displayed. However, displaying all feeds worked correctly. | Fail\*  \*This is potentially due to the location of my ISP in my student accommodation which displays my IP as Manchester. Would have to test outside of the emulator on an android phone which I do not have access to at the time. As far as I can tell from the code there is no reason why this should not work correctly. |
| Search box | Upon entering text into the search box, the feed should be filtered. For example, typing in “M6” should return events on the feed involving the M6. | Upon entering M6 in the search box the list was filtered correctly and returned only events related to the M6. | Pass |