Mobile Platform Development

Coursework

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Android Project: <https://github.com/Okervill/MobilePlatformDevelopment/tree/main/Lardner_Patrick_S1829335>

APK File:

<https://github.com/Okervill/MobilePlatformDevelopment/blob/main/app-debug.apk>

Video Recording:

<https://github.com/Okervill/MobilePlatformDevelopment/blob/main/Lardner_Patrick_S1829335_Video.mp4>

# Test Strategy

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| Test | Outcome |
| Data Parsed Correctly | When clicking the buttons for Incidents, Roadworks, and Planned Roadworks, the items listed are the same as the RawXML document from the various links, and in the same order. Therefore the app is correctly accessing the XML.  When viewing the details of each item, we can see that each XML Tag is being processed correctly and stored in the object correctly. |
| Navigation | The hamburger menu at the side functions correctly, moving the user between different views and loading different fragments. This also successfully loads the data for each view. |
| No Internet Connection | When there is no internet connection, the application provides a Toast notification alerting the user that there is no connection, and no data is attempted to load.  When the connection is restored, the user can reload each page to view the data successfully. |
| Map View | When viewing the details of each Item, there is a pin placed on a google map view which shows the user the exact location of the Item.  This appears to work even when the internet connection is lost (as long as the data has already been loaded). |
| Landscape Views | Landscape views have been created for each page and these successfully load when the device is rotated.  However, if the device is rotated after the XML has been loaded for a page, the ListView displaying the list of items will clear itself. |
| Filtering Items | Users have the option to filer the list of Items either by a search term, or keyword, and also by Date.  These both function correctly individually, but do not work in tandem. One or the other needs to be used.  The date picker makes use of the StartDate and EndDate provided on Roadworks and checks the selected Date falls between them inclusively.  The keyword filter searches the Title of the Item for any substring matching the search, this is not case sensitive. |