				https://caledonianac- my.sharepoint.com/:v:/g/personal/sarsco300_caledonian_a c_uk/ETGvglb9DHxAs4Ci95ValHkB04s7lbR4BhCEJYeuqM7jy A?e=6pcfjl&nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWx BcHAiOiJTdHJlYW1XZWJBcHAiLCJyZWZlcnJhbFZpZXciOiJTaG		
CW1 Test doc	Stuart_Arscott_S2219064	https://github.com/Stuart138 9/MobileCw	https://github.com/Stuart138 9/Arscott_Stuart_S2219064	FyZURpYWxvZy1MaW5rliwicmVmZXJyYWxBcHBQbGF0Zm9 ybSI6IIdlYiIsInJIZmVycmFsTW9kZSI6InZpZXcifX0%3D		
Туре	What's being tested	Test carried out	Expected results	Actual results	Logcats	Images
Permissions	Ask user for permissions	Start app	User should be prompted for permissions	User correctly prompted		
			App should continue to function, if user opens map, move to user position button	App continues to function, move to location gone on map		Contains BRC weather data from public RSS: Stuart Associt \$2219064 Stuart Associt \$2219064 County Super S
Permissions	Permission denied	Start app, deny permissions	Move to user device button should be available, user shouldn't be prompted again	view		Studit AlsGutt SZZ I SUU4 Weather Mauritania Mail Niger Guinea Faso Nigeria Gabon DRC Kenya Canzania Anaban Sea
Permissions	Permission granted 3 day forecast at https://weather-broker- cdn.api.bbci.co.uk/en/forecast/rss/3d		Logcat should show same data	expected		Angola Zambia Mczambique +
Data accuracy	ay/ extraction is successful and accurate	Download raw rss feed using URL manually and compare	as when manually read from URL	Data was all consistent with manually read RSS feeds.	Logcat too big to show here.	9 Raw result extracted org.me.gcu.arscott_stuart_s2219064 D <rss td="" xmln<=""></rss>
	Latest observations at https://weather-broker- cdn.api.bbci.co.uk/en/observation/rs s/ extraction is successful and		Logcat should show same data as when manually read from	,		1
Data accuracy	accurate	URL manually and compare		Data was all consistent with manually read RSS feeds.	Same as above ^	
Parsing	3 day forecast, parsing correctly extracts information from correct tags, passes to weatherItem class and successfully concatenates into a single string	Start app, inspect logcat	Data extracted using parser is consistent with raw data from rss feed inspected manually	Inspected all, no problems.	example logcat from Oman: 2024-03-21 20:58:00.685 18821-18992 Finish parse item: org.me.gcu.arscott_stuart_s2219064 D Tonight,Clear Sky,25°CDATE21 Mar 2024 20:57:42 GMTDESCRIPTIONWind Direction: Westerly, Wind Speed: 5mph, Visibility: Good, Pressure: 1010mb, Humidity: 77%, UV Risk: 0, Pollution: , Sunset: 18:18 GST	
Parsing	Latest observation is correctly parsed and concatenates into a string in weatherItem class	Start app, check logcat	Data extracted using parser is consistent with raw data from rss feed inspected manually	Expected.	example logcat from Glasgow: 2024-03-21 21:04:05.570 19076-19151 Finish parse item: org.me.gcu.arscott_stuart_s2219064 D Thursday - 20:00 GMT, Not available, 10°C DATE21 Mar 2024 20:00:00 GMTDESCRIPTIONWind Direction: West South Westerly, Wind Speed: 18mph, Humidity: 76%, Pressure: 1013mb, Steady, Visibility: Moderate	

Parsing	Weather type (e.g. sunny, light rain,etc) is correctly extracted from string and placed into list	Start app, check logcat	Weather type is correctly extracted, placed in list and remains in correct index position to be used in conjunction with weatherItem string.	Expected. Init list (init list is combined with rest list in view model as part of the requirement to load some data initially), rest list and obs list were inspected. Example logcat of rest list >	2024-03-21 22:21:13.288 10685-10775 Check list Model restListImage org.me.gcu.arscott_stuart_s2219064 D [light_rain, light_rain, light_rain_showers, clear_sky, sunny, heavy_rain, clear_sky, sunny, sunny_intervals, partly_cloudy, thundery_showers, light_rain_showers, mist, drizzle, sunny, light_rain, light_rain, light_rain_showers, clear_sky, sunny, heavy_rain, clear_sky, sunny, sunny_intervals, partly_cloudy, thundery_showers, light_rain_showers, mist, drizzle, sunny]	
					2024-03-21 22:28:31.212 10870-10961 ViewModel initlist org.me.gcu.arscott_stuart_s2219064 D [Tonight,Light Rain Showers,5°CDATE21 Mar 2024 22:01:25 GMTDESCRIPTIONWind Direction: Westerly, Wind Speed: 20mph, Visibility: Good, Pressure: 1013mb, Humidity: 83%, UV Risk: 1, Pollution: Low, Sunset: 18:34 GMT Friday,Light Rain Showers,4°C,8°CDATE21 Mar 2024 22:01:25 GMTDESCRIPTIONWind Direction: Westerly, Wind Speed: 22mph, Visibility: Moderate, Pressure: 1011mb, Humidity: 74%, UV Risk: 2, Pollution: Low, Sunrise: 06:13 GMT, Sunset: 18:36 GMT	
View model	All lists are correctly passed to view model automatically after parsing is complete	Start app, check logcat	Lists created in view model will be correctly populated with data obtained from model class.	Logcat from initList after initParse is complete can be seen on the right. Also checked logcats for combined and obs lists after their respective parsing was finished aswell as their accompanying image lists.	, Saturday,Light Rain,3°C,9°CDATE21 Mar 2024 22:01:25 GMTDESCRIPTIONWind Direction: Westerly, Wind Speed: 19mph, Visibility: Good, Pressure: 1004mb, Humidity: 77%, UV Risk: 2, Pollution: Low, Sunrise: 06:10 GMT, Sunset: 18:38 GMT	
View model	Init list is correctly placed in combined list after init parse is complete and rest list is correctly added to combined list after its finished parsing to display all available data to the user.	Start app, check logcat	Combined list will contain data from both init list and rest list in correct index places.	Combined list and accompanying image list contained expected data.	Too big to show all logcats. See image. Checked combined list and combined list image logs. Also changed to log.debug instead of log.error after test.	Temper_Light Personnel P
Main activity	Main activity displays all widgets correctly in portrait mode on start including bottom nav bar, fragment container, and headers (text view with name, number, bbc, etc)	Start app, examine screen on startup.	All widgets should be correctly	Expected.		Contains BIC weather data from public Ross Shared For State Florid Sta

Main activity landscape	Check widgets are correctly displayed on rotate.	Start app, rotate, examine screen.	Widgets should move to better accommodate screen realestate. Bottom nav bar moves to top.	Expected.		Contains BBC weather data from public RSS: Stuart Arscott S2219064 Settings 3 Day Forecast London 21 May 2024 23.01.44 GMT Tonight Light Cloud BBC Weather Light Cloud BBC Weather Light Cloud BBC Weather Light Rain BBC Weather
Mainweather	Listview is correctly populated using lists from view model automatically on startup, this includes initial list being loaded first followed by the combined list containing rest list.	Start app, scroll through list view to bottom and inspect.	Listview should contain weather basic data only, the data should be displayed in the correct order and under the correct heading which should be displayed on location change. Icons and text should be laid out correctly.	Expected.		Tonight Light Rain Showers BEC Weather Friday Light Rain Showers BEC Weather Saturday Light Rain BEC Weather Saturday Light Rain BEC Weather
Mainweather landscape	Data remains consistent on screen rotation, and layout correctly changes.	Start app, rotate to landscape and scroll through grid view. Check logcat to make sure data isn't being reprocessed.	Listview should switch to a grid view to better accommodate screen space. Data shouldn't be processed again, and should use data already populating lists in view model.	Expected. Irrelevant logcats on rotate, all good.		3 Day Forecast BBL Weather BBL Weather BBL Weather BBC Weather BBC Weather BBC Weather BBC Weather BBC Weather BBC Weather
Main weather	Buttons to show detailed 3 day forecast and latest obs.	Start app, scroll down and click obs button, go back, scroll down click detail list button. Rotate to landscape and do the same again.	On click, fragment should change to respective layout. If the user clicked the latest obs button the list should scroll down to the place they clicked on. If they clicked detail it should also bring them directly to the place they clicked on.	Expected.		
Weather latest observations	Check weather is correctly displayed, data should be used from existing t lists and not reprocessed. Icons and text should be laid out appropriately.	Start app, click on latest obs icon from mainweather listview and inspect.	Header should correctly display the location along with date and time of the weather forecast. The correct data should be paired with the correct icons. The weather type icon should be correctly displayed and correspond to the text displayed in each list item.	Expected.		Sangladesh Triday - 00:00 BDT Light Rain BC Wester Visuality West Visuality Wester Visuality Discretion Speech No. A No
Weather latest	Check data is consistent through rotation and data isn't being treprocessed. Widgets should be	Open latest observations page, then rotate. Check	User should remain in the latest observations page, data should also remain the same. Layout should change to		Logcat too big, no indication of reprocessing. Good	Thursday - 15:00 EDT Not available B6C Weather Wind Direction: Northerly Wind Speed: Smph Visibility: Good Pressure: 1019mb Hamidity: 24% N/A

Weather detailed	Check weather is correctly displayed, data should be used from existing lists and not reprocessed. Icons and text should be laid out appropriately. Click through locations.	Start app, click on detailed icon from mainweather listview and inspect.	Clicking through locations should loop back to the start to comply with one of the requirements. Data should be consistent with the other views and displayed correctly. Text should be paired with the correct icons.	Clicking through list both ways works as expected and loops back to the start. Data is consistent and everything is displayed correctly.		Detailed Forecast Glasgow 21 May 2024 23 22 20 GMT Tonight Light Bast Bowers Bread State St
Weather detailed portrait	Check data is consistent through rotation and data isn't being reprocessed. Widgets should be moved to more appropriate locations to make better use of space.	Open detailed weather page, then rotate. Check logcat.	User should remain in the same page, data should remain consistent through rotation. Layout should change to landscape layout. Arrow buttons should continue to work.	Expected.	No indication of reprocessing.	Bangladesh Detailed Forecast Tonight Light Rain Showers BBC Weather Wind Direction: Westerly Pressure: 1013mb Humidity: 83% Pollution: Low
Map view	Checking map is displayed correctly and works as expected.	Start app, open map view from main activity nav bar. Test map controls and click on each icon.	Map and map controls should be displayed correctly. Icons should be placed at the coords of each location on start with corresponding weather type icons. Clicking on a weather icon should display basic info about the latest observations of that location. Zoom controls should function and if the user has granted location perms, clicking on the move to my location icon should move the camera to device location.	Expected.		Kazakhstan Mongolia Bangladesh Kyrg Friday - 00:00 BDT Light Rain Irkmenistan Afghanistan Pakistan PB UK Nepal Nepal Arabian Sea Malaysia Indonesia Band Russia
		Open map from nav bar then	Map controls should work in			The Special Conference of Conf
Map view landscape	Check map is displayed correctly in landscape mode.	rotate. Test all controls and click on each icon.	landscape model, map should continue to work as expected.	Experted		Service Control Contro
Map view autocomplete fragment	Ensure user can search for a place using autocomplete	Open map, click autocomplete fragment, select a place. Repeat. Switch to landscape and do same again.	When user types, suggestions		Place: Glasgow, ChIJ685WIFYViEgRHIHvBbiD5nE LatLng lat/lng: (55.86167039999999,-4.2583345)	To bot a series of the series

Settings view	Check widgets are displayed correctly, user should be able to schedule updates using clock. Popup on set alarm. Tabs should change alarm.	Wipe phone data, start app, open settings menu, inspect icons and displayed text. Change time using clock and click set icon.	default update times should be 8am and 8pm, this should be displayed next to corresponding alarm icon. If the user clicks set alarm the corresponding alarm text should update to the new time, a popup should come up telling user to restart for changes to take place. Alarm tabs should correctly control whether the first or second scheduled update is being set.			Alarm 1 19:22 Restart Changes will take place on restart. OK 30 Set 19:22 20:00
Settings view landscape	Ensure functionality remains in landscape mode.	Open settings page, rotate phone.	Tabs should merge with header to give clock more room, alarm icons should be moved in line with clock. User should remain in settings page. Changing alarm schedule should continue to work.			Settings Alarm 1 Alarm 2 10 22 0 13 2 9 21 15 3 Set 23:33 19:22 8 19 18 17 4 7 6 5
Alarm prefs	Ensure alarm is updated correctly after restarting and persists through restart.	Set alarm in settings page. Restart app. Check alarm in logs. Close app completely. Start app, check logs.	Logcat should show correct alarms.	Expected.	2024-03-22 00:28:06.353 11499-11499 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D First Alarm Hour: 19 2024-03-22 00:28:06.353 11499-11499 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D First Alarm Minute: 22 2024-03-22 00:28:06.353 11499-11499 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hour: 20 2024-03-22 00:28:06.353 11499-11499 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D Second Alarm Minute: 0 2024-03-22 00:28:06.353 11499-11499 AlarmTime org.me.gcu.arscott_stuart_s2219064 D First alarm time: 1711135320353	99 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D First Alarm Hour: 19 99 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D First Alarm Hinute: 22 99 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 02 99 SharedPreferences org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 99 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 97 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 98 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 99 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 99 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 90 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 91 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 91 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 92 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 93 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 94 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 95 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 96 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunute: 0 97 AlarmIne org.me.gcu.arscott_stuart_s2219064 D Second Alarm Hunut
Write to file	After parsing is finished, the contents of the lists should be written to a file to be used if the user has no internet.	Start app with internet and	Logcat should show file being written to. App should test connection with google server, if it can't	Expected.	2024-03-22 00:56:11.212 15419-15491 weather written: org.me.gcu.arscott_stuart_s2219064 D /data/user/0/org.me.gcu.arscott_stuart_s2219064/file s/weatherLists.json	#-15607
Connection check	App should check user connection and act accordingly.	Start app with no internet, check logcat and go through each view.	reach the server then it should read from file, populate lists and then update data in the app.	After timing out the app successfully read from file, all views were populated correctly.	2024-03-23 15:12:51.727 16142-16228 connectCheck org.me.gcu.arscott_stuart_s2219064 D false	Latering, Light East Statement, 310, PURALIZE Ast 2004 801 Tendent, Light Cloud STANIERS And 2004 801 Tendent, Light Cloud STANIERS And 2004 8014 8016 Friday, Light Rail, PLOIDERTE Ame 2004 8015315 8016 Sathready, Light Rail, PLOIDERTE Ame 2004 8015315 80 Friday, Light Rail, PLOIDERTE Ame 2004 8016315 80 Friday, Light Rail, PLOIDERTE Ame 2004 8016317 8016800 Friday, Sanny, 20°C, 20°C BATTES Ame 2004 8016317 8016800 Friday, Sanny, 20°C, 20°C BATTES Ame 2004 8016317 8016800 Friday, Sanny, 20°C, 20°C BATTES Ame 2004 8016317 Saturday, Sanny, 20°C, 20°C BATTES Ame 2004 8016317 Saturday, Sanny, 20°C, 20°C BATTES Ame 2004 8016317