

18/19 C - Mobile Platform Development (MH1324189)

Coursework

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Introduction

Test Plan

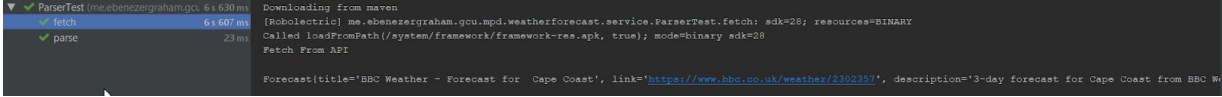
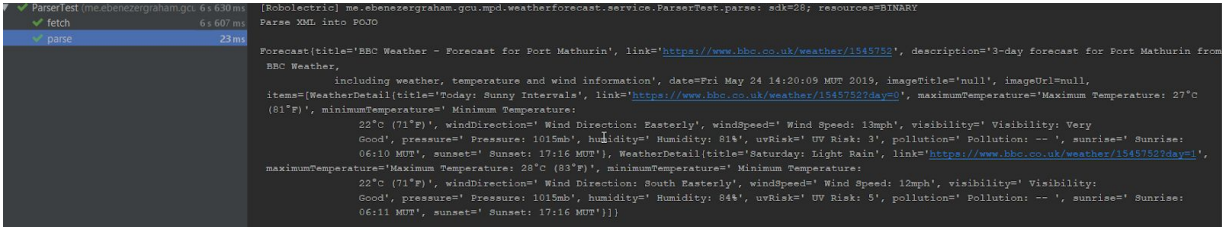
Introduction

All tests were implemented using JUnit and Robolectric Framework while others were performed with black-box tests.

Tests Scope

1. RSS parser

Test Cases

Use Case/Features	Test Case	Expected Result
Test 1: Parser Method: Parser::fetch	Fetch RSS Feed	Retrieve xml text from BBC weather API
 <pre> [Robolectric] me.ebenezergraham.gcu.mpd.weatherforecast.service.ParserTest.fetch: sdk=28; resources=BINARY Called loadFromPath(/system/framework/framework-res.apk, true); mode=binary sdk=28 Fetch From API Forecast(title='BBC Weather - Forecast for Cape Coast', link='https://www.bbc.co.uk/weather/230235', description='3-day forecast for Cape Coast from BBC W </pre>		
Test 2: Parser Method Parser::parse	Parse XML Assert that Forecast object is not null And output details	Convert XML data from test.xml into Java Object
 <pre> [Robolectric] me.ebenezergraham.gcu.mpd.weatherforecast.service.ParserTest.parse: sdk=28; resources=BINARY Parse XML into POJO Forecast(title='BBC Weather - Forecast for Port Mathurin', link='https://www.bbc.co.uk/weather/1545752', description='3-day forecast for Port Mathurin from BBC Weather, including weather, temperature and wind information', date=Fri May 24 14:20:09 MUT 2019, imageTitle='null', imageUrl=null, items=[WeatherDetail(title='Today: Sunny Intervals', link='https://www.bbc.co.uk/weather/1545752?day=0', maximumTemperature='Maximum Temperature: 27°C (81°F)', minimumTemperature='Minimum Temperature: 22°C (71°F)', windDirection='Wind Direction: Easterly', windSpeed='Wind Speed: 13mph', visibility='Visibility: Very Good', pressure='Pressure: 1015mb', humidity='Humidity: 81%', uvRisk='UV Risk: 3', pollution='Pollution: --', sunrise='Sunrise: 06:10 MUT', sunset='Sunset: 17:16 MUT'), WeatherDetail(title='Saturday: Light Rain', link='https://www.bbc.co.uk/weather/1545752?day=1', maximumTemperature='Maximum Temperature: 28°C (83°F)', minimumTemperature='Minimum Temperature: 22°C (71°F)', windDirection='Wind Direction: South Easterly', windSpeed='Wind Speed: 12mph', visibility='Visibility: Good', pressure='Pressure: 1015mb', humidity='Humidity: 84%', uvRisk='UV Risk: 5', pollution='Pollution: --', sunrise='Sunrise: 06:11 MUT', sunset='Sunset: 17:16 MUT')]) </pre>		