

Results

Object Repository/get_details

The screenshot displays the TestNG IDE interface. On the left, the 'Tests Explorer' pane shows the project structure with 'Object Repository' expanded, highlighting the 'get_details' test case. The central panel shows the test case configuration for 'get_details', including the URL 'http://api.openweathermap.org/geo/1.0/direct?appid=bcf9f9242d59e86c4b215e621' and the query parameters 'appid' and 'q'. The right panel shows the response body, which is a JSON object representing location data for South Jakarta.

Test Case: get_details

URL: http://api.openweathermap.org/geo/1.0/direct?appid=bcf9f9242d59e86c4b215e621

Query Parameters:

Name	Value
appid	bcf9f9242d59e86c4b215e621093278
q	South Jakarta

Response:

```
1 {
2   {
3     "name": "South Jakarta",
4     "local_names": {
5       "id": "Jakarta Selatan",
6       "en": "South Jakarta"
7     },
8     "lat": -6.28381815,
9     "lon": 106.80486324917382,
10    "country": "ID"
11  }
12 }
```

Object Repository/pollution_api

The screenshot displays the TestNG IDE interface. On the left, the 'Tests Explorer' pane shows the project structure with 'Object Repository' expanded, highlighting the 'pollution_api' test case. The central panel shows the test case configuration for 'pollution_api', including the URL 'http://api.openweathermap.org/data/2.5/air_pollution?appid=bcf9f9242d59e86c4b' and the query parameters 'appid', 'lat', and 'lon'. The right panel shows the response body, which is a JSON object representing air pollution data for South Jakarta.

Test Case: pollution_api

URL: http://api.openweathermap.org/data/2.5/air_pollution?appid=bcf9f9242d59e86c4b

Query Parameters:

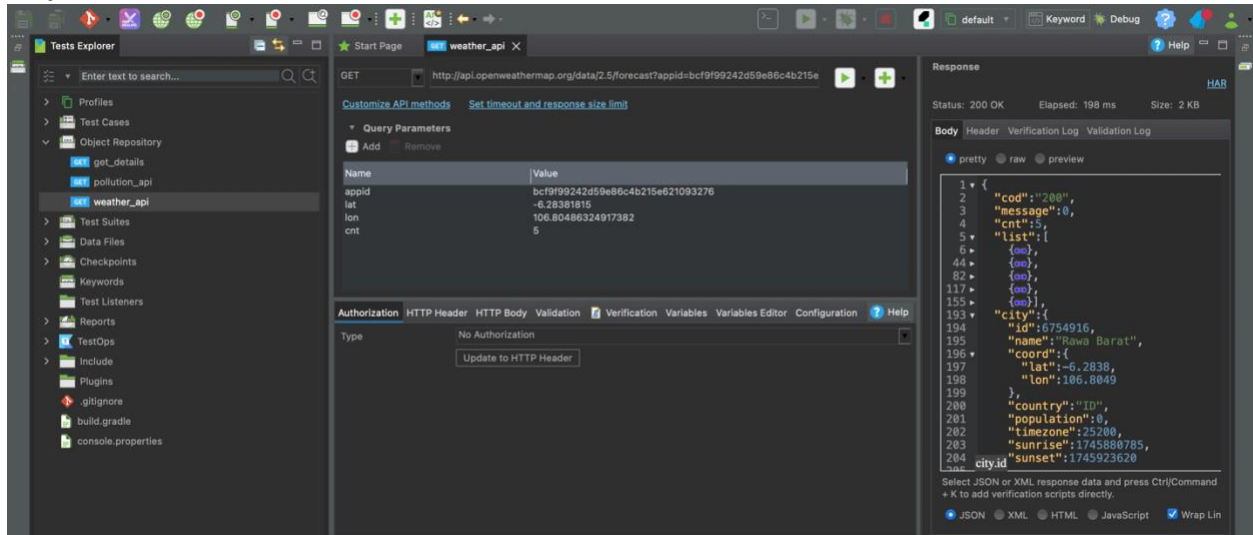
Name	Value
appid	bcf9f9242d59e86c4b215e621093278
lat	-6.28381815
lon	106.80486324917382

Response:

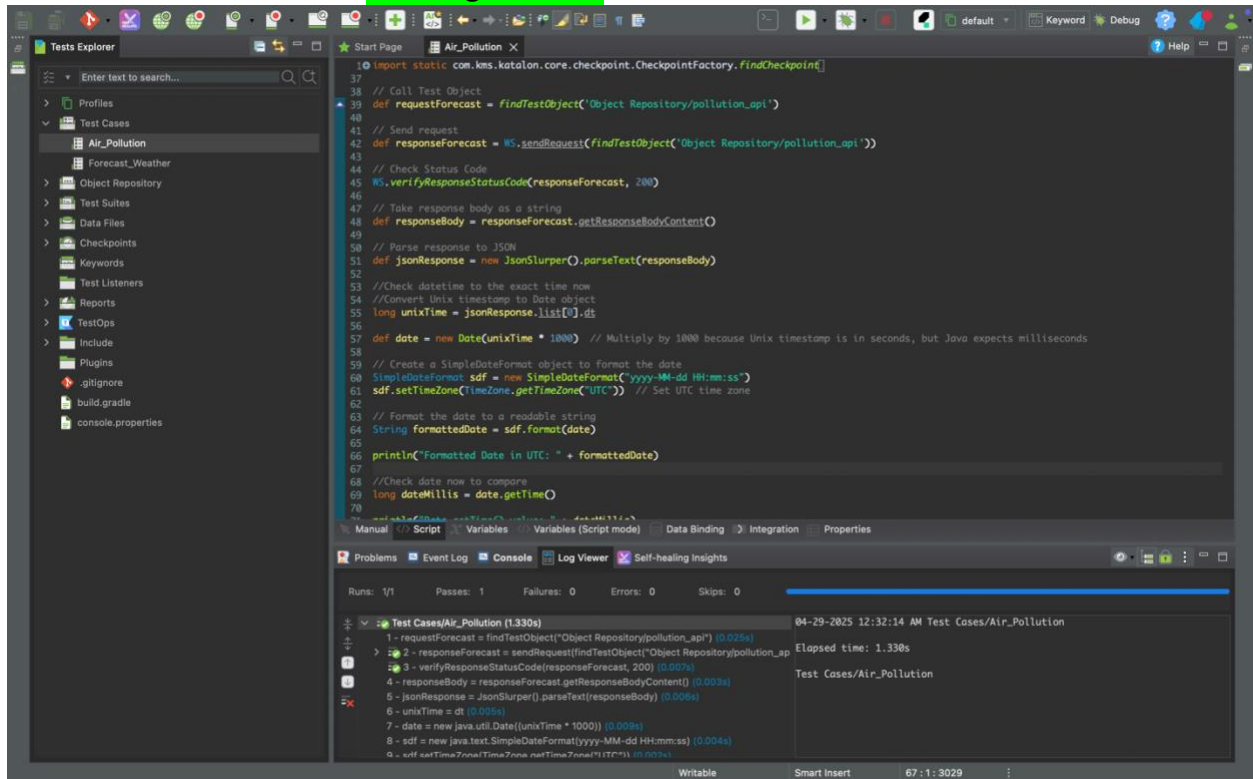
```
1 {
2   "coord": {
3     "lon": 106.8049,
4     "lat": -6.2838
5   },
6   "list": [
7     {
8       "main": {
9         "aqi": 1
10      },
11      "components": {
12        "co": 127.8,
13        "no": 10,
14        "no2": 1.32,
15        "o3": 41.93,
16        "so2": 0.63,
17        "pm2.5": 15.18,
18        "pm10": 14,
19        "nh3": 0.76
20      },
21      "dt": 1745861113
22    }
23  ]
24 }
```

Object Repository/weather_api

City Name : Rawa Barat, which is located on South Jakarta



Test Cases/Air_Pollution – Running Success



Tests Explorer

Enter text to search...

- Profiles
- Test Cases
 - Air_Pollution
- Forecast_Weather
- Object Repository
- Test Suites
- Data Files
- Checkpoints
- Keywords
- Test Listeners
- Reports
- TestOps
- Include
- Plugins
- .gitignore
- build.gradle
- console.properties

Start Page

Air_Pollution

```
//Check date now to compare
69 long dateMillis = date.getTime()
70
71 println("Date.getTime() value: " + dateMillis)
72 println("Expected millis (unixTime * 1000): " + (unixTime * 1000))
73
74 // Cek sama atau tidak
75 if (dateMillis == unixTime * 1000) {
76     println("Check PASSED: date.getTime() matches unixTime * 1000")
77 } else {
78     println("Check FAILED: date.getTime() DOES NOT match unixTime * 1000")
79 }
80
81 // Load JSON Schema from File
82 File schemaFile = new File("/Users/deagn/Katalon Studio/Testing_API/Include/scripts/groovy/schemas/pollution.schema.json ")
83
84 //def schemaContent = new JsonSlurper().parseText(schemaContent)
85 def schemaContent = new JsonSlurper().parseText(schemaFile.text)
86
87 // Convert to JSONObject
88 def schemaObject = new JSONObject(schemaContent)
89 def responseObject = new JSONObject(new JsonSlurper().parseText(responseBody))
90
91 // Load schema validator
92 Schema schema = Schemaloader.load(schemaObject)
93
94 // Validate response terhadap schema
95 try {
96     schema.validate(responseObject) // Melakukan validasi schema
97     println("JSON Schema Validation: SUCCESS") // Jika validasi berhasil
98 } catch (org.everit.json.schema.ValidationException e) {
99     // Menangkap dan mencetak semua pesan error dari validasi
100     println("Validation failed with these errors: " + e.getAllMessages())
101 }
102
```

Manual Script Variables Variables (Script mode) Data Binding Integration Properties

Problems Event Log Console Log Viewer Self-healing Insights

Runs: 1/1 Passes: 1 Failures: 0 Errors: 0 Skips: 0

14 - println("Date.getTime() value: " + dateMillis) (0.004s) 04-29-2025 12:32:14 AM Test Cases/Air_Pollution

15 - println("Expected millis (unixTime * 1000): " + (unixTime * 1000)) (0.001s) Elapsed time: 1.338s

16 - if (dateMillis == unixTime * 1000) (0.002s) Test Cases/Air_Pollution

17 - schemaFile = new java.io.File("/Users/deagn/Katalon Studio/Testing_API/Include/scripts/groovy/schemas/pollution.schema.json ") (0.003s)

18 - schemaContent = new org.json.JSONObject(schemaContent) (0.005s)

19 - responseObject = new org.json.JSONObject(new groovy.json.JsonSlurper().parseText(responseBody)) (0.005s)

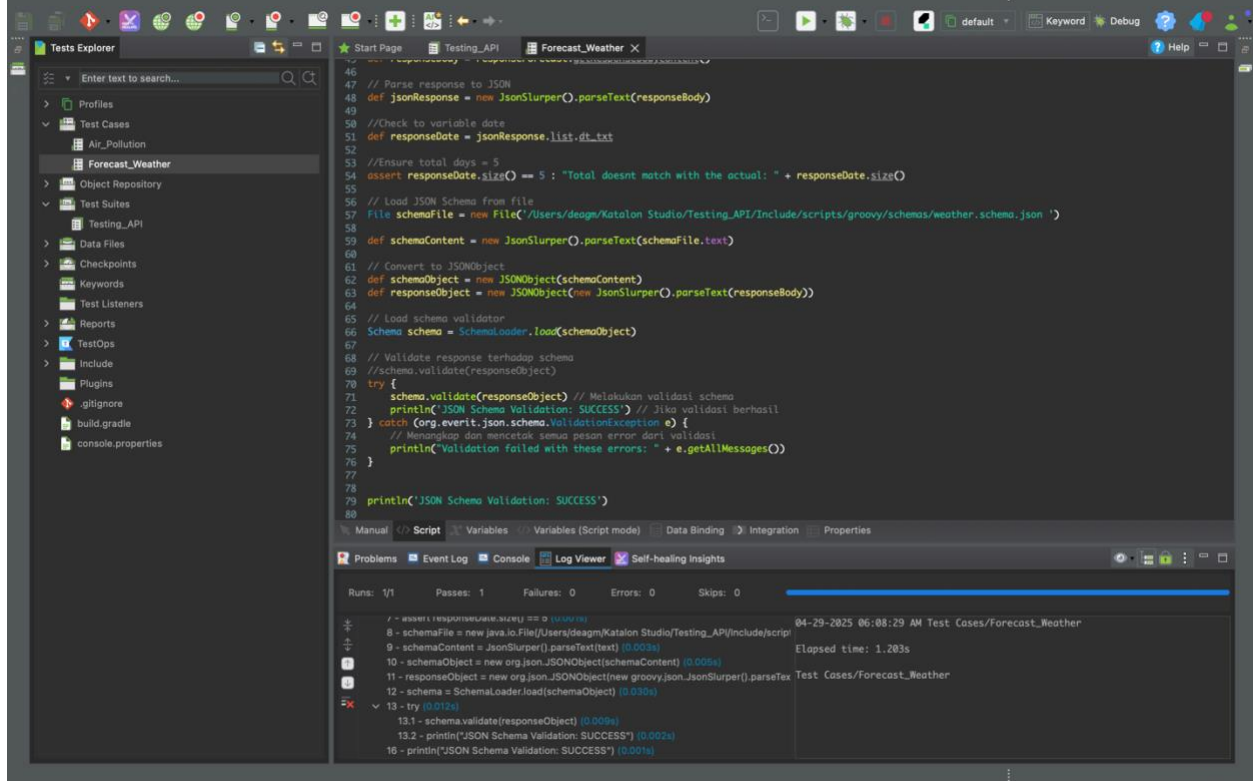
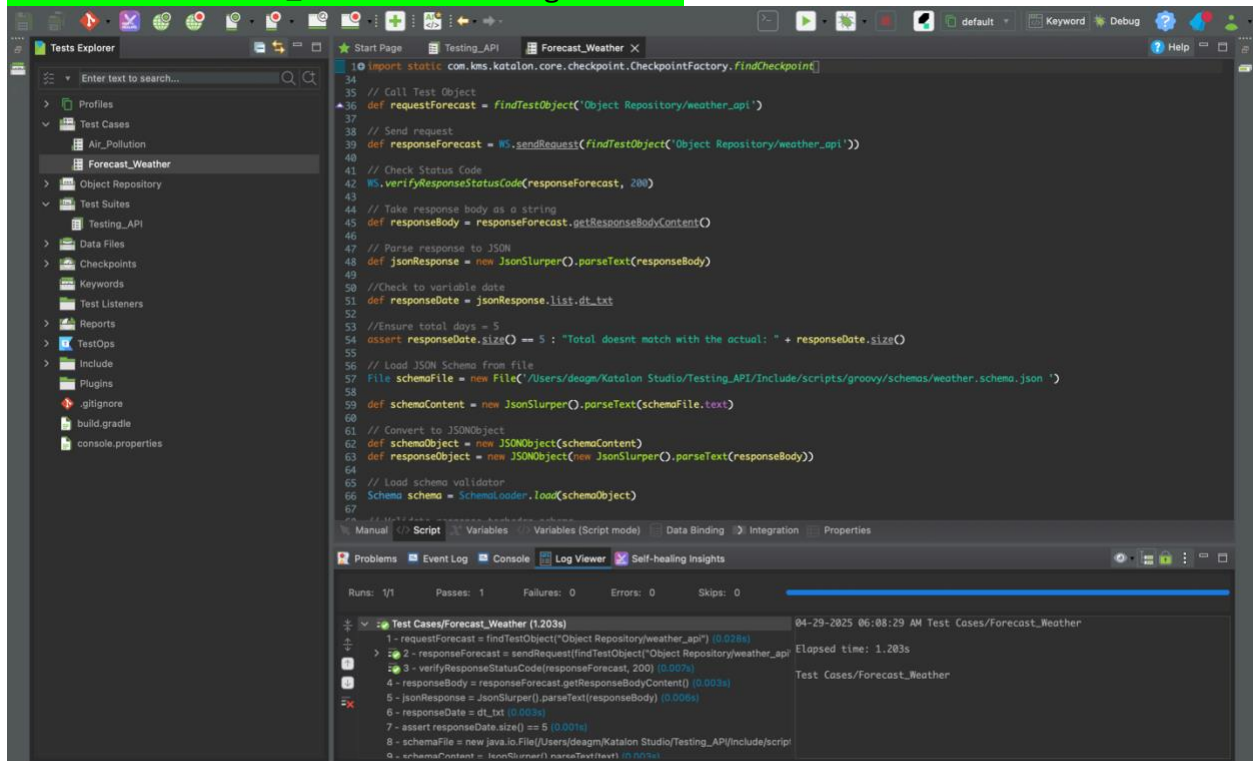
20 - schema = Schemaloader.load(schemaObject) (0.023s)

21 - try (0.010s)

22 - println("JSON Schema Validation: SUCCESS") (0.001s)

Writable Smart Insert 67:1:3029

Test Cases/Forecast_Weather – Running Success



There's an error

```

70 try {
71     schema.validate(responseObject) // Melakukan validasi schema
72     println('JSON Schema Validation: SUCCESS') // Jika validasi berhasil
73 } catch (org.everit.json.schema.ValidationException e) {
74     // Menangkap dan mencetak semua pesan error dari validasi
75     println("Validation failed with these errors: " + e.getAllMessages())
76 }
77

```

Then I should fix this first on JSON Schema

```

    "$ref": "#/definitions/Sys"
  },
  "dt_txt": {
    "type": "string",
    "format": "date-time"
  }
}

```

JSON Schema Format after I fixed, change the format that suites with the response, cause format date-time combination need the string to follow **standard ISO 8601(2025-04-28T18:00:00Z)**, but the result on the response only **yyyy-MM-dd HH:mm:s**, so I changd the validation on schema.

```

    "$ref": "#/definitions/Sys"
  },
  "dt_txt": {
    "type": "string",
    "pattern": "^\\d{4}-\\d{2}-\\d{2} \\d{2}:\\d{2}:\\d{2}$"
  }
}

```

Test Suites/Testing_API – **Running Success**

The screenshot displays the IntelliJ IDEA IDE interface during a successful test run. The sidebar on the left shows the project structure with 'Testing_API' selected. The main window is divided into two panes. The top pane, titled 'Execution Information', contains a table with the following data:

No.	ID	Description	Flakiness (%)	Latest Run	Avg. Duration	Run
1	Test Cases/Forecast_Weather		0.00	✓	1s	✓
2	Test Cases/Air_Pollution		0.00	✓	1s	✓

The bottom pane shows the 'Console' output, indicating that the tests passed successfully. The output includes the following information:

```

Runs: 2/2    Passes: 2    Failures: 0    Errors: 0    Skips: 0
Test Suites/Testing_API (4.888s)
  hostname = deagm - 192.168.1.3
  os = Mac OS X 64bit
  hostAddress = 192.168.1.3
  katalonVersion = 9.5.0.217
  > Test Cases/Forecast_Weather (1.096s)
  > Test Cases/Air_Pollution (0.487s)
  > exportKatalonReports (3.22%)
Elapsed time: 1.645s

```