

QA Engineer assignment: API testing

Solution URL on GitHub

https://github.com/Abokhalifa/com.payconiq

Features of the solution of Gists

- 1. Written in Java using Rest-Assured framework.
- 2. Design pattern like Page Object Model
- 3. Data driven tests from external data source
- 4. TestNg is used as a testing framework.
- 5. Basic CRUD functions of are included.
- 6. Autonomous tests that do not depend on one another.
- 7. Modular solution with Maven dependencies

Future Plan

- 1. Cover more tests based on **POISED** test strategy.
- 2. Handle exceptions.
- 3. Cover Negative, Security and Performance.
- 4. Improve the test report.

Test strategy

- o <u>POISED</u> API test strategy is considered.
- A mix of unit, integration, and system end-to-end tests are included.
- \circ Performance \rightarrow To be covered in a later sprint.
- \circ Security \rightarrow To be covered in a later sprint.
- Negative tests → This is crucial in API testing and will be covered in a later sprint.

- Programming skills

 Inheritance and encapsulation are included among classes to improve reusability and extendibility.

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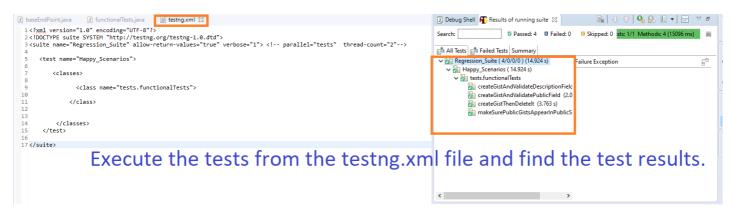
- How you test APIs
 - Same as in Test Strategy section above
- The maintainability of the solution
 - Separation of concerns is considered to isolate responsibilities of each class and hence more easier debugging is guaranteed.
- Show good structuring of tests for reusability /naming convention
 - Clear and up to the point folder structures
 - Consistent naming convention is used from the common practice of java naming convention
 - o A design pattern like the Pag Object Model is used

Instruction to run the solution

- Make sure Maven installs the dependencies in the POM.xml file. To install the dependencies, right click the project directory → Maven → Update Project or simply Alt + F5.
- 2. Make sure to add TestNg framework.
- 3. Make sure the folder structure is something like the below image:

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- 4. Set the "Token" parameter @ "baseEndPoint" class before using the app
- 5. Execute the tests from testing.xml and see the results as shown below.



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