The CocktailDB API – Non-Functional Testing

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# **Project Overview**

**The project consists of non-functional testing plan for TheCocktailDB API. Document has been created for Derivco** **between 05-11-2021 and 08-11-2021.**

# **Non-functional Tests - API**

1. **Security and Authorization**
   * **Whether API is designed according to correct security principles like Unauthorized Access, Sanctioning Fuzzy input, Data leaks etc.**
     + **Positive scenario: ensure API responds to correct authorization via all agreed authorization methods as defined in specification document**
     + **Negative scenario: ensure API refuses all unauthorized calls**
   * **Role Permissions: ensure that specific endpoints are exposed to user based on role. API should refuse calls to endpoints which are not permitted for user’s role**
   * **Protocol: check HTTP/HTTPS according to specification document**
2. **Performance**
   * **Check API response time, latency etc in terms of load.**
3. **Load Testing / Stress Testing**
   * **Check the capacity limit points and ensure the API performs as expected under load, and fails gracefully under stress**

# **Framework for NON-FUNCTIONAL test**

1. Test Environment: Dedicated test environment needs to be setup to execute and maintain non-functional tests
2. Test data setup: Analysis and planning is required to setup test data like reusable data, non-reusable data.
3. Performance testing tool: There are many performance testing tools which can be used like JMeter or LoadRunner. This can be determined based on requirement.
4. Performance monitoring tool: Monitoring tools are essential to evaluate and monitor performance and behaviour of the application. There are many tools available like AppDynamics, Datalog etc.
5. Test scripts creation/execution
6. Analysis of test results
7. Report/Display test results

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