

# NFT Test Automation Lead



## Key purpose of the role

The NFT Test Automation Lead is responsible for in-depth and traceable automated test design, creation of automated test scripts, test execution, analysing test results and maintaining a defect register. As part of a cross-functional software delivery team, this role works closely with Architects, Software Engineers, Business Analysts, Application Support teams and Project Managers to achieve quality outcomes and ultimately contribute to ASX's vision and strategy.



## Your responsibilities

- Design, implement and maintain Non-Functional test assets to ensure desired level of quality and test coverage.
- Take technical responsibility across all stages and iterations of test automation development for a project.
- Responsible for Project test planning & approach, using own in-depth technical analysis of non-functional specifications, requirements and solution architecture.
- Accountable for test planning, execution, monitoring, reporting for efficient delivery timelines.
- Monitor, measure, control and report to management on Test progress, product quality, test results and test completion
- Responsible for test deliverables that include the Test Plan, Test Scripts, Test Cases, Test Summary and Key Testing Metrics, test estimates and defect management.
- To define, design, drive and deliver all testing work for Non-Functional Tests that include Performance, Alert and Monitoring tests, Disaster Recovery Testing, Backup Restoration Testing and Resiliency Testing
- Collaborates across parties involved in product, systems or service design and development to enable comprehensive test coverage. Identifies improvements in requirements, design or specification processes to increase the effectiveness and efficiency of testing.
- Provide reports on progress, anomalies and risks & issues associated with the overall project or release. You'll also report on system quality and collect metrics on tests and results.
- Provide advice and guidance to support the implementation of the ASX Software Testing Policy and Guidelines and organisational Test Automation standards, tailoring processes, and reviewing and improving usage and application of methods & tools.
- Advise and apply best test engineering practice, and supporting tools and technologies to specific features and projects
- Being an active member of the QE&T Community of Practice (CoP).

## ASX values

We put the market first

We stand up for what's right

We achieve more together

We drive positive change



## Your experience and qualifications

### Must have

- Worked in an environment with a structured test process, performing automated System and System Integration testing.
- Proven experience in test design based on in-depth technical and requirements analysis.
- Created and maintained automated test code and scripts, run automated tests and interpreted & reviewed results from automated test runs.
- Worked as part of an agile, cross-functional team.
- Hands-on experience with CI/CD related processes, DevOps and tools.
- Experience using Atlassian tools like JIRA, confluence, bit bucket etc. to create test artefacts.
- Sound technical understanding of Performance Engineering, Non Functional testing and analytics.
- Strong technical experience in working with testing tools such as Jmeter & Gatling.
- Demonstrable working experience in Java/any scripting Language, test automation frameworks, Oracle, SQL Server, AppDynamics, and Elastic Search.
- High-level understanding of Client-Server Architecture including load balancers and firewalls in an enterprise infrastructure.
- Demonstrable working experience in setting performance test framework for large-scale web applications, SOA, micro services and JMS messaging using industry standards and Open source tools.
- Demonstrable ability to analyse complex technical requirements, review architecture documents and solution design, and determine appropriate performance test approach and best engineering practices based on technical design.
- Demonstrable working experience in code repository & version control tools such as Stash & Git
- Ability to debug complex performance issues with respect to code or capacity with limited analytics available.
- Demonstrable working experience where vendor product delivery (Hosted in cloud) is involved and has validated its integration to legacy systems with regards to all Non Functional attributes (including security)
- Experience in cloud technologies (AWS, Google) where application have been successfully validated with regards to non-functional aspects.

### Nice to have

- Experience with Cucumber or Specflow.
- Exposure to non-functional testing, such as performance and load testing.
- Capital markets domain experience.
- Experience with testing micro-services and/or container- based architectures.
- Knowledge of messaging protocols, such as FpML, SWIFT or FIX.
- Strong interpersonal and stakeholder management skills.
- Continuous improvement mindset.

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## Skills required for the role

Skill	Skill Indicators & Behaviours
<p><b>Testing - Investigating products, systems and services to assess behaviour and whether this meets specified or unspecified requirements and characteristics.</b></p>	<ul style="list-style-type: none"> <li>• Selects appropriate testing approach, including manual and automated testing.</li> <li>• Develops and executes test plans and test cases. Implements scalable and reliable automated tests and frameworks.</li> <li>• Collaborates across parties involved in product, systems or service design and development to enable comprehensive test coverage. Identifies improvements in requirements, design or specification processes to increase the effectiveness and efficiency of testing.</li> <li>• Analyses and reports on test activities, results, issues and risks, including the work of others.</li> </ul>
<p><b>Programming/Software Development - Developing software components to deliver value to stakeholders.</b></p>	<ul style="list-style-type: none"> <li>• Designs, codes, verifies, tests, documents, amends and refactors simple programs/scripts.</li> <li>• Applies agreed standards and tools to achieve a well-engineered result.</li> <li>• Monitors and reports on progress. Identifies issues related to software development activities. Proposes practical solutions to resolve issues.</li> <li>• Collaborates in reviews of work with others as appropriate.</li> </ul>
<p><b>Methods and Tools - Ensuring methods and tools are adopted and used effectively throughout the organisation.</b></p>	<ul style="list-style-type: none"> <li>• Provides advice, guidance and expertise to promote adoption of methods and tools and adherence to policies and standards.</li> <li>• Evaluates and selects appropriate methods and tools in line with agreed policies and standards.</li> <li>• Contributes to organisational policies, standards, and guidelines for methods and tools.</li> <li>• Implements methods and tools at programme, project and team levels including selection and tailoring in line with agreed standards.</li> <li>• Manages reviews of the benefits and value of methods and tools.</li> <li>• Identifies and recommends improvements.</li> </ul>
<p><b>Requirements Definition and Management - Managing requirements through the entire delivery and operational life cycle.</b></p>	<ul style="list-style-type: none"> <li>• Defines and manages scoping, requirements definition and prioritisation activities for initiatives of medium size and complexity.</li> <li>• Contributes to selecting the requirements approach.</li> <li>• Facilitates input from stakeholders, provides constructive challenge and enables effective prioritisation of requirements.</li> <li>• Establishes requirements base-lines, obtains formal agreement to requirements, and ensures traceability to source.</li> </ul>
<p><b>Systems Development Management - Planning, estimating and executing systems development work to time, budget and quality targets.</b></p>	<ul style="list-style-type: none"> <li>• Plans and drives systems development projects which support the organisation's objectives and plans.</li> <li>• Selects, adopts and adapts appropriate systems development methods, tools and techniques.</li> <li>• Ensures that stakeholders are aware of required resources and that they are made available.</li> <li>• Facilitates availability and optimum utilisation of resources.</li> <li>• Monitors and reports on the progress of development projects.</li> <li>• Ensures projects are carried out in accordance with agreed architectures, standards, methods and tools and addresses security and privacy requirements. Develops road maps to communicate future development activity.</li> </ul>

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