Job Description	
Position	Principal Engineer, Test Automation
Department	Quality Assurance
Division	Information Services

SUMMARY OF RESPONSIBILITIES

This role is the Subject Matter Expert (SME) in the automated testing domain. It is important that the SME comes with strong development skill and DevOps methodologies to optimize the application testing capabilities towards scalability, readability, maintainability, stability and speed in deployment.

The role plays a significant role in driving internal adoption of in-house manual testing to automate testing. Therefore, this role will involve in leading and co-leading the design, development and delivery of the automation test tools, scripts and code covering both on-premise and on-cloud deployment of all application in the organisation.

As the SME, this role is expected to assist Head of QA in mentoring QA Team in technical upskilling.

KEY AREAS OF RESPONSIBILITIES

- Provide end to end testing to PayNet applications.
- Own, lead and managing test automation and solution and production issues by working closely with key stakeholders.
- Document test procedure, guidelines and lead knowledge sharing sessions.
- Responsible in implementing the testing and ensure more stable applications to the organisation in achieving adoption in DevSecOps.
- Responsible in implementing and architecting the state-of-the-art software testing and transforming to future-state automated testing.
- To inculcate the best practices, operational discipline and guidelines across the systems team.
- Responsible for the development of automate tests for all software testing as part of the application development lifecycle.
- Establish a framework for necessary contributions from various departments and facilitate their collaboration.
- Document and monitor testing outcomes and establish steps to remedy problems.
- Analyse current technologies used within the company and develop innovative steps to improve testing procedures.
- Detailed understanding of how to properly document test cases and create effective and focused testing plan.
- Assist other department engineers in creating practical automated test suits that are aligned with the proposed testing framework and tools.
- Provide detailed specifications for proposed solutions including time and scope involved.
- Responsible for the continuous maintenance of existing test scripts and code.
- To participate in other working groups of small projects undertaken by the division on issues with regards to Systems Architecture & Design with a focus around test driven development, test automation and test coverage.
- Drive and coordinate across teams to design automated repetitive tests to streamline testing process.

<u>Enterprise Risk Management</u>

General
- Understands and applies controls effectively to manage key risks and provides suggestions to improve the controls, wherever possible.
- Promptly escalates risks and incidents to senior management in accordance to existing procedures.
- Comply to relevant regulations, guidelines and procedures.

On appointment as Project Manager
- Responsible for project management related tasks i.e. planning, implementation, monitoring and reporting of progress, risks and issues.
- Develop Request for Proposal, evaluate and obtain necessary approval for the award of tender, where applicable.

QUALIFICATIONS

Minimum Qualifications
- Bachelor's Degree in Computer Science, Information Systems Technology, or Software Engineering
- Minimum 6 years relevant experience in Information Technology with proven technical capabilities in designing, developing and delivering QA Automation strategy, framework and implementation.
- Relevant work experience in the Financial Services and/or Technology sectors would be an added advantage.

Technical Qualifications
- Experience in software testing. In depth know-how on test processes i.e. test plan preparation, test execution, bug defect escalation, test report etc.
- Detailed oriented and adept at anticipating user behaviour and innovative in identifying opportunities for improvement/problem-solving
- Mature experiences with programming script languages such as Python, Java, and Ruby on Rails, *etc.*
- Good experience with Selenium test automation, Robot Framework, Rest API, Postman, SoapUI, Git, Pivotal Tracker, etc.
- Detailed knowledge of application functions, bug fixing, and testing protocols, SAFe, Agile/Hybrid Agile, and DevOps
- Familiar and have good understanding in DevSecOps architecture such as Jenkins, Dockers and Ansible
- Good programming skills including automation systems and databases.
- Good understanding in virtualization and/or cloud technology such as AWS, GCP or Azure

Additional Desirable Skills

- Experience in testing as part continuous integration/continuous delivery (CI/CD) process. Regression test run triage, digital quality gates, issue escalation etc.
- ISTQB or similar test certification.
- Experience in non-functional testing i.e. load/performance, stability/soak, robustness and security testing and the non-functional test automation.
- Stay ahead of emerging technologies and trends with broad understanding of computer systems and software standards.