



Quality Assurance (QA) Engineer – Web Applications

40 hours per week. Permanent contract

Department:	Cadet Digital Services	Level:	B2
Reporting to:	System Design Manager	Location:	Home Based

Job Description

Purpose of the Post

Ensuring the quality, reliability, and performance of our web applications through rigorous testing and quality assurance practices. The QA Engineer will be responsible for designing, developing, and executing test plans and automated scripts that identify and mitigate software defects. Working closely with development, product, and support teams, the QA Engineer will help deliver high-quality web applications that meet the needs of our users and align with our goals. This role is essential in maintaining product integrity, enhancing user experience, and supporting the continuous improvement of our software solutions through proactive, detailed quality assurance processes.

Principal Responsibilities

- Perform comprehensive manual testing of web applications to verify functionality, usability, and performance standards.
- Develop, implement, and maintain automated test scripts using tools such as Cypress or Selenium WebDriver to streamline and enhance testing efficiency.
- Collaborate with development and project teams throughout the Software Development Life Cycle (SDLC), ensuring adherence to Agile and SCRUM methodologies.
- Utilise test management and bug-tracking tools (e.g., Azure DevOps, JIRA) to document test cases, track defects, and manage end-to-end testing processes.
- Partner closely with developers to ensure seamless integration and architecture of web applications using technologies such as HTML5, CSS, and JavaScript.
- Analyse test results to identify issues, collaborate with developers to resolve them, and optimise performance and user experience.
- Apply knowledge of Oracle Application Express (APEX) in the testing and troubleshooting of web applications.
- Actively participate in Agile ceremonies, contributing to team alignment and continuous improvement.

Quality Assurance (QA) Engineer – 01 October 2024

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- Develop and maintain comprehensive test documentation, including test plans, test cases, and test summaries, to support knowledge sharing and improve test coverage.
- Ensure the quality and security of web applications by performing both functional and non-functional testing, including regression, integration, smoke, and load testing.
- Conduct root cause analysis for identified defects, helping to prevent recurrence and improve overall code quality.
- Stay current with industry best practices and emerging technologies in QA and testing, and proactively recommend process improvements.
- Act as a QA advocate within the development team, providing feedback on potential risks and promoting best practices for robust code quality.

Key Competencies

Criteria	Essential	Desirable	Methods of assessment
Qualifications and Training	<ul style="list-style-type: none"> ▪ Good general education ▪ Evidence of continuing personal and professional development 	<ul style="list-style-type: none"> ▪ Bachelor's degree in computer science, Information Technology, Software Engineering, or a related field. 	Covering letter, interview, references, certificates
Experience and knowledge	<ul style="list-style-type: none"> ▪ Proven experience in manual testing of web applications. ▪ Solid understanding of SDLC, Agile, and SCRUM methodologies. ▪ Experience with test management and bug tracking tools. (e.g. Azure DevOps or JIRA). 	<ul style="list-style-type: none"> ▪ Creating and running automated testing scripts projects. ▪ Experience with Cypress or Selenium Web Driver ▪ Knowledge of core web technologies such as HTML5, CSS, JavaScript, and web application architecture. ▪ Familiarity with Oracle Application Express (APEX) 	Covering letter, interview, references

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<p>Skills and ability</p>	<ul style="list-style-type: none">▪ Strong ability to analyse testing outcomes, identify root causes of issues, and work collaboratively to find effective solutions.▪ Excellent verbal and written communication skills to convey testing results, issues, and recommendations▪ Willingness to learn new tools, adapt to changing technologies, and continuously improve testing methods.		<p>Covering letter, interview, references</p>
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