

Ministry of Digital Economy
Project Management Unit (PMU)

Job Description

1. **Title: Technical Lead** - 4 vacancies
2. **Introduction:** A Software Development Tech Lead oversees the technical direction of a development team, ensuring best practices in coding, design, and architecture. They collaborate with product managers and stakeholders to define requirements and deliver high-quality solutions. The role involves mentoring developers, reviewing code, and solving complex technical challenges. They also ensure the timely delivery of projects while maintaining team productivity and morale.
3. **Duration:** 2-month service contract
4. **Job Descriptions :**

1. Technical Lead - Project Management Unit

Position	Technical Lead - Project Management Unit
Location	Ministry of Digital Economy (MoDE)
Reporting to	Head of PMU
Objective	<p>To provide technical leadership and expertise to development teams within the PMU, specifically focusing on:</p> <ul style="list-style-type: none">• Managing projects formerly owned by ICTA and new projects identified by the PMU.• Ensuring code quality and adherence to best practices.• Defining and guiding the implementation strategy for new software systems.• Supporting the maintenance of essential common services.• Facilitating the transition of key initiatives to GovTech.

Key Responsibilities	<p>The candidate shall report to the Head of PMU or the relevant sectoral head during standard office hours and will be responsible for the following tasks:</p> <p>(i) Technical Guidance</p> <ul style="list-style-type: none"> ● Provide technical guidance and mentorship to software development teams. ● Establish and enforce development standards and best practices. ● Ensure alignment of technical strategies with organisational objectives. <p>(ii) Code Review</p> <ul style="list-style-type: none"> ● Conduct code reviews to maintain code quality and consistency. ● Identify and address performance bottlenecks and security vulnerabilities. ● Implement automated code review processes where applicable. <p>(iii) Implementation Strategy</p> <ul style="list-style-type: none"> ● Define and guide the implementation strategy for new software systems. ● Oversee the execution of critical initiatives, including SLUDI (Sri Lanka Unified Digital Identity). ● Ensure seamless integration of new systems with existing infrastructure. <p>(iv) Troubleshooting</p> <ul style="list-style-type: none"> ● Assist in troubleshooting and resolving complex technical issues. ● Act as an escalation point for critical technical problems. ● Develop and implement strategies for quick resolution of system failures. <p>(v) Maintenance of Essential Common Services</p> <ul style="list-style-type: none"> ● Provide technical lead assistance for the maintenance of 10 essential common services. ● Ensure the stability, performance, and security of essential services. ● Guide the team on best practices for maintenance and version control.
Qualifications and Experience	<p>Experience:</p> <ul style="list-style-type: none"> ● Minimum of 5 years of experience in software development. ● At least 3 years of demonstrated experience in a technical leadership role. ● Experience managing large-scale government or enterprise-level projects is preferred. <p>Knowledge:</p> <ul style="list-style-type: none"> ● Deep understanding of software development principles, methodologies, and best practices. ● Broad knowledge of system design, architecture patterns, and integration strategies. ● Familiarity with government digital infrastructure and data security standards is an advantage.
Technical Skills	<ul style="list-style-type: none"> ● Expertise in relevant programming languages (e.g., Java, Python, JavaScript). ● Strong understanding of software architecture and design patterns. ● Experience with code review tools and processes. ● Knowledge of DevOps practices and CI/CD pipelines. ● Experience with cloud platforms (e.g., AWS, Azure, GCP).
Non-Technical Skills	<ul style="list-style-type: none"> ● Excellent communication, leadership, and mentoring skills. ● Ability to work independently and collaboratively with diverse teams. ● Strong analytical and problem-solving skills. ● Adaptability to changing project requirements and priorities.

Educational Requirements	<ul style="list-style-type: none"> ● Bachelor's degree in Computer Science, Software Engineering, or a related field.
Certifications (Optional)	<ul style="list-style-type: none"> ● Relevant technical certifications such as: <ul style="list-style-type: none"> ○ AWS Certified Solutions Architect ○ TOGAF ○ Microsoft Certified: Azure Solutions Architect Expert ○ Google Professional Cloud Architect

2. Technical Lead – Maintenance of Essential Common Services

Position	Technical Lead – Maintenance of Essential Common Services
Location	Ministry of Digital Economy (MoDE)
Reporting to	Head of PMU
Objective	<p>To provide technical leadership and support for maintaining and transitioning essential common services, specifically focusing on:</p> <ul style="list-style-type: none"> ● Ensuring the continued operation and maintenance of essential services. ● Providing technical oversight and troubleshooting support. ● Implementing updates, patches, and configurations. ● Facilitating the transition of essential services to a new structure.
Key Responsibilities	<p>The candidate shall report to the Head of PMU or the Software Architect during standard office hours and will be responsible for the following tasks:</p> <p>(i) Technical Support</p> <ul style="list-style-type: none"> ● Provide hands-on technical support for the operation and maintenance of essential services. ● Monitor system performance and availability. ● Recommend improvements to enhance service performance and stability. <p>(ii) Issue Resolution</p> <ul style="list-style-type: none"> ● Lead the troubleshooting and resolution of technical issues. ● Identify root causes and implement permanent fixes to prevent recurrence. ● Collaborate with relevant stakeholders to address complex issues. <p>(iii) Implementation</p> <ul style="list-style-type: none"> ● Implement necessary updates, patches, and configurations. ● Ensure compatibility with existing infrastructure and applications. ● Test updates to confirm successful deployment. <p>(iv) Transition Assistance</p> <ul style="list-style-type: none"> ● Assist with the technical aspects of transitioning the services to the new structure. ● Provide technical documentation and training to support the transition. ● Ensure minimal disruption during the transition process. <p>(v) Maintenance</p> <ul style="list-style-type: none"> ● Ensure the stability, performance, and security of essential services. ● Maintain version control and change management records. ● Perform regular system health checks and preventive maintenance.

Qualifications and Experience	<p>Experience:</p> <ul style="list-style-type: none"> • Minimum of 5 years of experience in software development. • At least 3 years of demonstrated experience in a technical leadership role. • Solid experience in IT operations and system administration. • Proven experience in managing and maintaining large-scale IT infrastructure or enterprise applications. <p>Knowledge:</p> <ul style="list-style-type: none"> • Deep understanding of the systems and technologies used in essential services. • Familiarity with system monitoring, performance tuning, and troubleshooting.
Technical Skills	<ul style="list-style-type: none"> • Expertise in relevant technologies used in the essential services. • Strong understanding of system integration and network protocols. • Experience with security, backup, and recovery solutions. • Proficiency in scripting and automation tools.
Non-Technical Skills	<ul style="list-style-type: none"> • Strong problem-solving skills and analytical thinking. • Effective communication and interpersonal skills. • Ability to work independently and collaboratively with cross-functional teams.
Educational Requirements	<ul style="list-style-type: none"> • Bachelor's degree in Computer Science, Information Technology, or a related field.
Certifications (Optional)	<ul style="list-style-type: none"> • Relevant technical certifications such as: <ul style="list-style-type: none"> ○ Microsoft Certified: Azure Administrator ○ AWS Certified SysOps Administrator ○ Red Hat Certified Engineer (RHCE) ○ Certified Kubernetes Administrator (CKA)