



Ministry of Digital Economy
Project Management Unit (PMU)

Job Descriptions

1. **Title: Software Architect** - 4 vacancies
2. **Introduction:** Technical Oversight and Design: Responsible for providing technical leadership and guidance, ensuring the technical feasibility and soundness of solutions, and defining the overall technical architecture. Software Architects will be primarily involved in: * Maintaining Essential Common Services, ensuring their stability and eventual transition. * Providing technical oversight to the Interim Project Unit. * Potentially contributing to the early design of systems for DEA/GovTech (as needed).
3. **Duration:** 2-month service contract
4. **Job Descriptions :**

1. Software Architect – Digital Initiatives

Position	Software Architect – Digital Initiatives
Location	Ministry of Digital Economy (MoDE)
Reporting to	Head of PMU
Objective	<p>The objective of this role is to provide technical and architectural expertise to the PMU for the successful design, implementation, and transition of digital initiatives. The Software Architect will:</p> <ul style="list-style-type: none">● Develop architectural frameworks for core DPIs.● Ensure alignment with technical and business requirements.● Provide strategic guidance for technology adoption.● Support the transition to DEA/GovTech through structured handover.
Key Responsibilities	<p>The applicant shall report to the Head of PMU or the relevant Technical Lead and will be responsible for the following:</p> <p>(i) Solution Design</p> <ul style="list-style-type: none">● Provide architectural guidance and design support for new digital initiatives.● Develop architectural frameworks for core DPIs.● Ensure scalability, security, and performance of proposed solutions. <p>(ii) Technology Evaluation</p> <ul style="list-style-type: none">● Evaluate and recommend appropriate technologies for implementing digital initiatives.● Conduct technical feasibility studies and recommend best-fit solutions. <p>(iii) Technical Oversight</p> <ul style="list-style-type: none">● Provide technical oversight and guidance to development teams.● Ensure alignment with architectural guidelines and technical standards.

	<ul style="list-style-type: none"> Identify and mitigate technical risks. <p>(iv) Documentation</p> <ul style="list-style-type: none"> Prepare and maintain comprehensive architectural documentation. Develop design blueprints and technical specifications. Document system dependencies and integration points. <p>(v) Stakeholder Support</p> <ul style="list-style-type: none"> Provide technical support and guidance to stakeholders. Work with government agencies, vendors, and internal teams to address architectural requirements. Participate in technical discussions and reviews.
Qualifications and Experience	<p>Experience:</p> <ul style="list-style-type: none"> Minimum 7 years experience in software architecture and design. Proven track record of successful delivery of complex software solutions. Experience working with government organisations and large-scale public sector projects is desirable. <p>Knowledge:</p> <ul style="list-style-type: none"> Strong understanding of digital technologies and software development methodologies. Experience with microservices, cloud computing, and enterprise architecture. Knowledge of digital platforms and Digital Public Infrastructure (DPI).
Technical Skills	<ul style="list-style-type: none"> Expertise in relevant technologies such as cloud infrastructure, APIs, microservices, and containerisation. Proficient in architectural frameworks such as TOGAF. Strong analytical and problem-solving skills. Ability to design scalable, secure, and high-performance solutions.
Non-Technical Skills	<ul style="list-style-type: none"> Excellent communication and interpersonal skills. Ability to work independently and collaboratively with stakeholders. Strong organisational and time-management skills.
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 architecture certifications such as TOGAF, AWS Certified Solutions Architect, or equivalent are desirable.

2. Software Architect – Project Management Unit

Position	Software Architect – Project Management Unit
Location	Ministry of Digital Economy (MoDE)
Reporting to	Head of PMU

Objective	<p>The objective of this role is to provide technical and architectural expertise to the PMU for the successful design, implementation, and transition of digital initiatives. The Software Architect will:</p> <ul style="list-style-type: none"> ● Design the overall architecture for new software systems. ● Ensure alignment with technical and business requirements. ● Validate the technical aspects of ongoing and future tenders. ● Provide strategic guidance for technology adoption. ● Support the maintenance of essential common services
Key Responsibilities	<p>The applicant shall report to the Head of PMU or the relevant sectoral head and will be responsible for the following:</p> <p>(i) Solution Architecture</p> <ul style="list-style-type: none"> ● Design the overall architecture for new software systems and applications. ● Develop architectural frameworks for critical initiatives such as: <ul style="list-style-type: none"> ○ SLUDI (Sri Lanka Unique Digital Identity) ○ PM Tool (Project Management Tool) ○ ERP (Enterprise Resource Planning) ● Ensure the designed architecture is scalable, secure, and high-performing. <p>(ii) Technical Guidance</p> <ul style="list-style-type: none"> ● Provide technical oversight and guidance to development teams. ● Ensure alignment with architectural guidelines and technical standards. ● Identify and mitigate technical risks. <p>(iii) Tender Validation</p> <ul style="list-style-type: none"> ● Review and validate the technical aspects of ongoing and upcoming tenders related to software development. ● Ensure proposed solutions meet technical, security, and performance standards. ● Provide technical input for tender evaluation and selection processes. <p>(iv) Technology Evaluation</p> <ul style="list-style-type: none"> ● Evaluate and recommend appropriate technologies and platforms for new projects. ● Conduct technical feasibility studies and recommend best-fit solutions. ● Identify emerging technologies that align with PMU's strategic objectives. <p>(v) Maintenance of Essential Common Services</p> <ul style="list-style-type: none"> ● Provide architectural support for the maintenance and enhancement of 10 Common Services. ● Ensure common services meet performance and security benchmarks. ● Establish guidelines for long-term maintenance and scalability.

Qualifications and Experience	Experience: <ul style="list-style-type: none"> • Minimum of 7 years of experience in software development, with at least 3–5 years in a software architecture role. • Experience with government projects is a plus. • Proven track record of successful delivery of complex software solutions. Knowledge: <ul style="list-style-type: none"> • Deep understanding of software architecture principles, design patterns, and best practices. • Familiarity with various technologies and platforms, including open-source and proprietary solutions. • Experience in designing scalable, secure, and high-performance systems.
Technical Skills	<ul style="list-style-type: none"> • Expertise in relevant programming languages and frameworks. • Experience with cloud technologies (e.g., AWS, Azure, GCP). • Strong understanding of database design and management. • Experience with API design and integration. • Knowledge of microservices architecture and containerization. • Familiarity with DevOps practices and CI/CD pipelines.
Non-Technical Skills	<ul style="list-style-type: none"> • Excellent communication and interpersonal skills. • Strong leadership and problem-solving skills. • Ability to work independently and collaboratively with stakeholders. • Strong organizational and time-management skills.
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 architecture certifications such as: <ul style="list-style-type: none"> ○ AWS Certified Solutions Architect ○ TOGAF ○ Microsoft Certified: Azure Solutions Architect Expert ○ Google Professional Cloud Architect

3. Software Architect – Project Handover

Position	Software Architect – Project Handover
Location	Ministry of Digital Economy (MoDE)
Reporting to	Head of PMU

Objective	<p>To ensure the successful handover of digital projects, including:</p> <ul style="list-style-type: none"> • Technical due diligence of projects being handed over. • Assessment and completion of technical documentation. • Ensuring smooth knowledge transfer to receiving organizations. • Providing technical support during the handover process. • Facilitating post-handover technical support.
Key Responsibilities	<p>The applicant shall report to the Head of PMU or the relevant sectoral head and will be responsible for the following:</p> <p>(i) Technical Due Diligence</p> <ul style="list-style-type: none"> • Review the technical architecture of projects being handed over. • Identify gaps, inconsistencies, and areas of improvement in the existing architecture. • Ensure alignment with technical and business requirements. <p>(ii) Documentation Review</p> <ul style="list-style-type: none"> • Assess the completeness and accuracy of technical documentation. • Identify missing or outdated information and recommend corrective actions. • Ensure that documentation covers system design, implementation, and maintenance guidelines. <p>(iii) Knowledge Transfer</p> <ul style="list-style-type: none"> • Facilitate structured knowledge transfer sessions with technical staff. • Ensure that receiving organizations and the PMU have a clear understanding of the system architecture, dependencies, and maintenance requirements. • Develop knowledge transfer frameworks and guidelines. <p>(iv) Technical Support</p> <ul style="list-style-type: none"> • Provide technical oversight during the handover process. • Address technical challenges and roadblocks encountered during the transition. • Ensure the stability and continuity of services during the handover period. <p>(v) Handover Support</p> <ul style="list-style-type: none"> • Support receiving organizations in adopting and maintaining the handed-over systems. • Monitor post-handover performance and provide technical assistance as needed. • Develop a transition plan to ensure long-term stability and scalability.
Qualifications and Experience	<p>Experience:</p> <ul style="list-style-type: none"> • Minimum of 7 years of experience in software development, with at least 3–5 years in a software architecture role. • Experience with government projects is a plus. • Proven track record of successful delivery of complex software solutions. <p>Knowledge:</p> <ul style="list-style-type: none"> • Broad understanding of software architecture principles, design patterns, and best practices. • Familiarity with various software technologies and platforms, including open-source and proprietary solutions. • Experience in designing scalable, secure, and high-performance systems.

Technical Skills	<ul style="list-style-type: none"> ● Expertise in relevant programming languages and frameworks. ● Experience with cloud technologies (e.g., AWS, Azure, GCP). ● Strong understanding of database design and management. ● Experience with API design and integration. ● Knowledge of microservices architecture and containerisation. ● Familiarity with DevOps practices and CI/CD pipelines.
Non-Technical Skills	<ul style="list-style-type: none"> ● Excellent communication and interpersonal skills. ● Strong knowledge transfer and training skills. ● Strong leadership and problem-solving skills. ● Ability to work independently and collaboratively with stakeholders. ● Strong organizational and time-management skills.
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 architecture certifications such as: <ul style="list-style-type: none"> ○ AWS Certified Solutions Architect ○ TOGAF ○ Microsoft Certified: Azure Solutions Architect Expert ○ Google Professional Cloud Architect

4. Software Architect – Maintenance of Essential Common Services

Position	Software Architect – Maintenance of Essential Common Services
Location	Ministry of Digital Economy (MoDE)
Reporting to	Head of PMU
Objective	<p>To ensure the ongoing stability and eventual transition of essential common services, including:</p> <ul style="list-style-type: none"> ● Providing technical oversight for 10 essential common services. ● Addressing complex technical issues and ensuring service continuity. ● Contributing to the technical aspects of the transition plan for these services. ● Ensuring that technical documentation is up-to-date and comprehensive. ● Supporting the phased transition to new organisations or teams.
Key Responsibilities	<p>The candidate shall report to the Head of PMU or the relevant sectoral head and will be responsible for the following:</p> <p>(i) Technical Oversight</p> <ul style="list-style-type: none"> ● Provide technical oversight and guidance for the maintenance of 10 essential common services. ● Ensure alignment with established technical standards and best practices.

	<ul style="list-style-type: none"> ● Monitor service performance and recommend improvements. <p>(ii) Issue Resolution</p> <ul style="list-style-type: none"> ● Provide software architecture support to resolve complex technical issues. ● Act as the technical escalation point for critical issues. ● Ensure rapid identification and resolution of service disruptions. <p>(iii) Transition Planning</p> <ul style="list-style-type: none"> ● Contribute to the technical aspects of the transition plan for essential common services. ● Develop guidelines for the smooth transition of services to new organisations or teams. ● Identify risks and mitigation strategies related to service transition. <p>(iv) Documentation</p> <ul style="list-style-type: none"> ● Ensure that technical documentation for the services is up-to-date and accurate. ● Develop and maintain architectural guidelines, implementation details, and maintenance procedures. ● Ensure that documentation is accessible to relevant stakeholders. <p>(v) Maintenance</p> <ul style="list-style-type: none"> ● Oversee the routine maintenance of essential common services. ● Ensure proper versioning, updates, and patch management. ● Monitor security and performance to prevent service disruptions.
Qualifications and Experience	<p>Experience:</p> <ul style="list-style-type: none"> ● Minimum of 7 years of experience in software development, with at least 3–5 years in a software architecture role. ● Experience with maintaining and scaling complex software systems. ● Experience with government or large-scale enterprise projects is preferred. <p>Knowledge:</p> <ul style="list-style-type: none"> ● Broad and in-depth knowledge of software architecture principles, design patterns, and best practices. ● Familiarity with technologies and platforms used in essential common services. ● Understanding of performance monitoring, security standards, and system integration.
Technical Skills	<ul style="list-style-type: none"> ● Expertise in relevant programming languages and frameworks. ● Experience with cloud technologies (e.g., AWS, Azure, GCP). ● Strong understanding of database design and management. ● Experience with API design and integration. ● Knowledge of microservices architecture and containerisation. ● Familiarity with DevOps practices and CI/CD pipelines.
Non-Technical Skills	<ul style="list-style-type: none"> ● Excellent communication and interpersonal skills. ● Strong problem-solving and analytical skills. ● Ability to work independently and collaboratively with stakeholders. ● Strong leadership and decision-making skills.
Educational Requirements	<ul style="list-style-type: none"> ● Bachelor's degree in Project Management, Business Administration, Information Technology, Public Administration, or a related field.

Certifications (Optional)	<ul style="list-style-type: none"> ● Relevant architecture certifications such as: <ul style="list-style-type: none"> ○ AWS Certified Solutions Architect ○ TOGAF ○ Microsoft Certified: Azure Solutions Architect Expert ○ Google Professional Cloud Architect
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