



**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**

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

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

## 2. Software Architect – Project Management Unit

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

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

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

### 3. Software Architect – Project Handover

<b>Position</b>	Software Architect – Project Handover
<b>Location</b>	Ministry of Digital Economy (MoDE)
<b>Reporting to</b>	Head of PMU
<b>Objective</b>	To ensure the successful handover of digital projects, including: <ul style="list-style-type: none"> <li>● Technical due diligence of projects being handed over.</li> <li>● Assessment and completion of technical documentation.</li> <li>● Ensuring smooth knowledge transfer to receiving organizations.</li> <li>● Providing technical support during the handover process.</li> </ul>

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

<b>Non-Technical Skills</b>	<ul style="list-style-type: none"> <li>● Excellent communication and interpersonal skills.</li> <li>● Strong knowledge transfer and training skills.</li> <li>● Strong leadership and problem-solving skills.</li> <li>● Ability to work independently and collaboratively with stakeholders.</li> <li>● Strong organizational and time-management skills.</li> </ul>
<b>Educational Requirements</b>	<ul style="list-style-type: none"> <li>● Bachelor's degree in Computer Science, Software Engineering, or a related field.</li> </ul>
<b>Certifications (Optional)</b>	<ul style="list-style-type: none"> <li>● Relevant architecture certifications such as: <ul style="list-style-type: none"> <li>○ AWS Certified Solutions Architect</li> <li>○ TOGAF</li> <li>○ Microsoft Certified: Azure Solutions Architect Expert</li> <li>○ Google Professional Cloud Architect</li> </ul> </li> </ul>

#### 4. Software Architect – Maintenance of Essential Common Services

<b>Position</b>	Software Architect – Maintenance of Essential Common Services
<b>Location</b>	Ministry of Digital Economy (MoDE)
<b>Reporting to</b>	Head of PMU
<b>Objective</b>	<p>To ensure the ongoing stability and eventual transition of essential common services, including:</p> <ul style="list-style-type: none"> <li>● Providing technical oversight for 10 essential common services.</li> <li>● Addressing complex technical issues and ensuring service continuity.</li> <li>● Contributing to the technical aspects of the transition plan for these services.</li> <li>● Ensuring that technical documentation is up-to-date and comprehensive.</li> <li>● Supporting the phased transition to new organisations or teams.</li> </ul>
<b>Key Responsibilities</b>	<p>The candidate shall report to the Head of PMU or the relevant sectoral head and will be responsible for the following:</p> <p><b>(i) Technical Oversight</b></p> <ul style="list-style-type: none"> <li>● Provide technical oversight and guidance for the maintenance of 10 essential common services.</li> <li>● Ensure alignment with established technical standards and best practices.</li> <li>● Monitor service performance and recommend improvements.</li> </ul> <p><b>(ii) Issue Resolution</b></p> <ul style="list-style-type: none"> <li>● Provide software architecture support to resolve complex technical issues.</li> <li>● Act as the technical escalation point for critical issues.</li> <li>● Ensure rapid identification and resolution of service disruptions.</li> </ul> <p><b>(iii) Transition Planning</b></p> <ul style="list-style-type: none"> <li>● Contribute to the technical aspects of the transition plan for essential common services.</li> </ul>

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