



NIRA
NATIONAL IDENTIFICATION &
REGISTRATION AUTHORITY
HAY'ADDA AQOONSIGA IYO DIIWAANGELINTA QARANKA

Job Description	
Organization:	National Identification and Registration Authority
Position Title:	Solutions Architect
Reports to:	Director General
Duty Station:	National Identification and Registration Authority (NIRA), Mogadishu
Name of the Project	Somalia Capacity Advancement, Livelihood and Entrepreneurship, through Digital Uplift Project (SCALED-UP)
Project ID	P168115
Duration	12 months renewable upon performance

TERMS OF REFERENCE FOR SOLUTIONS ARCHITECT

Background:

The National Identification and Registration Authority (NIRA) is a Government Agency in Somalia, first established in 2020, with the aim of creating and maintaining the national identification system. NIRA is, inter alia, responsible for registering citizens and residents and for providing them with secure and verifiable credentials, including a unique identification number and a national identity card. It also serves as a trusted provider of identity verification and authentication services, promoting the use of the foundational identification system. With the establishment of NIRA Somalia, the government is committed to providing a reliable and efficient identification system that will enable individuals to access services and participate in the development of the country.

The Federal Government of Somalia is implementing the World Bank-financed Somalia Capacity Advancement, Livelihood and Entrepreneurship, through Digital Uplift Project (SCALED-UP) and intends to use part of the proceeds to hire a **Solutions Architect** (Individual Consultant) for the National Identification and Registration Authority.

Objective:

The Solutions Architect will play a crucial role in supporting the National Identification and Registration Authority (NIRA) of Somalia by designing and implementing innovative

technological solutions that align with NIRA's objectives, missions, and goals. The primary objectives of this position are to provide strategic guidance, design efficient solutions, and ensure seamless integration with the National ID system, while staying knowledgeable about emerging issues relevant to technological solutions for national identification systems. NIRA is actively recruiting Solutions Architect based in Mogadishu, Somalia.

Scope of Work:

Under the overall guidance from NIRA's Director General, the responsibilities of the Network Architect position will include but not limited to the following:

1. Responsibilities:

The Solutions Architect will undertake the following key responsibilities:

- Conduct a comprehensive analysis of NIRA's current technological landscape, evaluating its strengths, weaknesses, and areas for improvement, with a specific focus on aligning it with the requirements of the National ID system.
- Design, develop, and implement scalable and innovative technological identity management solutions that support the National ID system and address NIRA's current and future needs, considering aspects such as system architecture, software applications, data management, scalability, security, and integration capabilities.
- Collaborate closely with cross-functional teams, including IT, operations, and security personnel, to gather solution requirements and ensure seamless integration with existing systems and processes.
- Develop and maintain an architectural framework and standards that guide the selection, implementation, and integration of technological solutions, ensuring compliance with relevant industry best practices and standards.
- Evaluate and recommend emerging technologies, tools, and platforms that can enhance the efficiency, security, and effectiveness of NIRA's technological solutions and align with the organization's goals.
- Conduct feasibility studies and cost-benefit analyses to assess the viability and potential impact of proposed solutions, considering factors such as time, budget, resources, and technical feasibility.
- Ensure that all technological solutions adhere to data privacy and security regulations, including encryption, access controls, data protection, and disaster recovery strategies.
- Develop comprehensive solution documentation, including architecture diagrams, specifications, configuration guides, and user manuals, to facilitate effective solution management, troubleshooting, and knowledge transfer.
- Define and evolve software development processes, CI/CD pipelines, DevOps practices and quality standards.
- Provide technical guidance and leadership to project teams, ensuring the successful delivery of technology solutions within established timelines and quality standards.

- Stay informed about emerging trends, challenges, and best practices in the field of technological solutions, particularly in relation to national identification systems, and actively contribute to knowledge-sharing initiatives within NIRA
- Prepare reports, presentations, and other documents associated with solution architect as required by the management of NIRA.

2. Qualifications and Experience

The candidates should have the following desired qualifications:

- A master's degree in computer science, information technology, or a related field.
- At least 10 years of relevant experience in solution architecture, software development, and program management, similar role, with a strong track record of designing and implementing technological solutions, preferably in the public sector or international development organizations.
- Strong technical expertise across multiple technologies and frameworks such as Java, Golang, Python, Node.js, React, Angular, Spring Boot, etc.
- Strong analytical skills and ability to understand functional and non-functional requirements and translate them into robust technical designs.
- Experience working with government agencies, civil society organizations, and development partners.
- Deep expertise in key architectural patterns and practices like microservices, event-driven architecture, clean code, TDD, etc.
- Experience gathering business/system requirements, evaluating alternative solutions, weighing trade-offs and making sound architectural decisions.
- Excellent problem solving, critical thinking and troubleshooting abilities, able to resolve complex technical issues.
- Ability to develop high-level and low-level system architectures, detailed designs, interface specs.
- Knowledge of DevOps practices, CI/CD, infrastructure as code, cloud platforms and containerization tools.
- Strong organizational and project management skills.
- Fluency in English and Somali languages (both written and spoken).

Deliverables:

- Technological landscape analysis report: A comprehensive report assessing NIRA's current technological landscape, identifying strengths, weaknesses, and areas for improvement in alignment with the National ID system.
- Technological solution design and implementation: Design, development, and implementation of scalable and innovative technological solutions that support the National ID system and address NIRA's needs, including architecture diagrams, specifications, and configuration guides.

- Architectural frameworks and standards: Development and maintenance of architectural frameworks and standards for technological solutions, ensuring compliance with industry best practices and standards.
- Emerging technologies recommendations: Assessment reports and recommendations on emerging technologies, tools, and platforms that can enhance NIRA's technological solutions and align with organizational goals.
- Feasibility and costbenefit analyses: Feasibility studies and cost-benefit analyses for proposed technological solutions, providing insights into their viability, potential impact, and alignment with NIRA's objectives.
- Solution documentation package: Comprehensive documentation for technological solutions, including architecture diagrams, specifications, configuration guides, and user manuals, facilitating effective solution management, troubleshooting, and knowledge transfer.
- Technical guidance and leadership: Provision of technical guidance and leadership to project teams, ensuring successful delivery of technology solutions within established timelines and quality standards.
- Knowledge sharing initiatives: Active participation in knowledge-sharing initiatives within NIRA, including sharing insights, best practices, and emerging trends related to technological solutions for national identification systems.
- Progress reports and presentations: Regular reports and presentations outlining the progress, achievements, and challenges related to technological solution design and implementation.
- Work closely with the relevant stakeholders, including government agencies, development partners, and civil society organizations, to ensure effective coordination and cooperation in the implementation of NIRA's software development plan.