



Ministry of Economic Development
Male',
Republic of Maldives

ދިވެހިސަރުކާރުގެ ގެޒެޓް
ސަރުކާރުގެ ގެޒެޓް
ދިވެހިސަރުކާރުގެ ގެޒެޓް

National Single Window Project Software Engineer

01 June 2022

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TERMS OF REFERENCE

Contract	<i>Software Engineer</i>		
Project	<i>National Single Window Project</i>		
Expertise	<i>Expertise in software development</i>		
Source	<i>National</i>	Category	<i>Independent</i>

Objective/Purpose of the Assignment:

The National Single Window project will leverage information and communication technology (ICT) to streamline border control procedures. This will enable traders and other service providers to transact business using electronic forms.

In addition, the project will facilitate sharing of harmonized data to enable automated processing of documents across stakeholder systems. This will contribute to the government's sectoral strategy to establish a single window system for international trade facilitation.

The project is aligned with the following impacts: (i) Top 40 ranking on the World Bank Ease of Doing Business Index achieved by 2025; and (ii) Faster, cheaper, and more predictable cross-border trade in the South Asia Sub-regional Economic Cooperation (SASEC) sub-region achieved.

The project will contribute to achieve the following outcomes:

- An electronic platform that allows parties involved in trade and transport to lodge standard information and documents with a single entry point to fulfill all import and export related statutory requirements.
- Streamlined and enhanced international trade procedures between the private sector and border control line agencies.
- Sharing of harmonized data to enable automated processing of documents across stakeholder IT systems.
- Leverage information and communication technology (ICT) to provide online access to carry out cross border trade and efficiency in the clearance of cargo.

Scope of Work:

Role - Under the guidance of the Project Manager and IT Specialist:

- Design code, test, install, maintain, and retrofit software programs
- Analyse code non-conformities and develop code enhancements
- Provide technical assistance and information to other team members of PMU and



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stakeholder teams

- Building new systems with technologies such as .NET / .NET Core/ ASP.NET / C# / SQL / Web API
- Displays initiative, sets challenging targets and willingly accepts new work assignments related to NSW and blockchain pilot implementation.
- Support in the roll out of data harmonization framework in CBRA systems and any other MED managed IT system.
- Develop understanding of international trade procedures so as to contribute on aspects relating to the effective use of ICT towards NSW project objectives.
- Advise implementing agencies and the NSW operator on matters relating to the interface of systems of implementing agencies with the NSW.
- Support implementation of blockchain pilot activities and capacity building activities under the NSW project.
- Participate and actively contribute to project coordination meetings.
- Familiarize with ADB and Maldivian Government laws, regulations, rules, procedures and requirements in procuring all IT equipment and services for the NSW project.
- Assist in regular reporting to ADB and the Maldivian Government
- Assist in undertaking project risk assessment, and work with project staff to minimize risk exposure levels with regard to project implementation.
- All other tasks assigned by MED and international project management specialists in relation to NSW project.

Detailed Tasks:

- Assist the Project Manager and IT Specialist in coordination with various implementing agencies (CBRA's) and consultants for effective implementation of the project.
- Assist in the implementation of the data harmonization framework in the CBRA IT systems supported under the project.
- Provide professional/technical advice to the Project Management unit and the Steering Committee in the implementation of the project.
- Prepare progress monitoring reports of the IT infrastructure procurement, under the guidance of the Project Manager and Project IT Specialist
- Assist to coordinate coding and testing activities and evaluate and verify various alternatives before making technical recommendations and resolving technical issues
- Design code, test, install, maintain, and retrofit software programs and maintain



clear workplans and timelines associated with these tasks

- Maintaining continuously high-quality coding standards
- Provide support in the implementation of NSW system, block chain pilot and capacity building activities under the project.
- Provide support to the Project Manager and IT Specialist in planning, monitoring and assisting the ongoing software development projects
- Provide support in bringing any quick enhancements to existing CBRA systems supported by the project.
- Provide support to the Project Manager in the procurement of IT related equipment or services procured under the NSW project in line with the Government Laws, regulations, rules and procedures as well as ADB procurement guidelines
- Other tasks requested by the Government and international project management specialist for the implementation of NSW.

Qualifications and experience required for the position are:

- A Master's Degree in Software Engineering or related IT qualification with a minimum of 3 years relevant experience.
or
- A Bachelor's Degree in Software Engineering or related IT qualification with 7-10 years relevant experience.
- Proven experience in the following development related technologies
 - .NET C# / ASP.NET (Core)/
 - Web API (RESTful APIs)
 - JavaScript
 - MS SQL Server
 - Version control (Git or TFS)

Output/Reporting Requirements:

- Draft monitoring reports for review to the project manager.
- Archive all project related documents, consultant reports, and draft replies pertaining to the development of the software.
- Archive, document and maintain any code developed
- Any other deliverable as defined by donor and MED, from time to time.
- The Software Engineer will report directly to the Project Manager of the PMU on a daily basis on the tasks assigned to him/her and work closely under the guidance of the IT Specialist.



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Others:

Successful candidate will be paid an all-inclusive monthly fee, depending on qualification and experience in accordance with the Policy Set by Pay commission on setting a salary framework for staff hired under donor/grant-funded projects.

Salary package (all inclusive) – MVR 30,000.00 monthly.

Selection Criteria

Candidates will be evaluated based on education (20%), experience (30%), interview (25%) and practical test result (25%).

Places of Assignment:	Days Estimated Dates	(dd/mm/yyyy)
Ministry of Economic Development, Male', Maldives	June 2022 to Dec 2023	