

**Modernization of Government Services  
in the Republic of Moldova  
Project ID No. P148537**

**TERMS OF REFERENCE  
NATIONAL CONSULTANT - DEVOPS ENGINEER**

**I. Background**

The Government of Moldova is determined to fundamentally change the way how public services are provided in Moldova through a variety of interventions for modernization of service delivery, which combat corruption, foster a customer care culture, enhance access, as well as increases efficiency in the Moldovan public administration.

From 2006 to 2013, Moldova modernized its civil service legislation and administrative processes under the Central Public Administration Reform (CPAR), supported by the World Bank's administered CPAR Multi-Donor Trust Fund.

In July 2016, the Government of Moldova approved the Public Administration Reform Strategy for 2016-2020<sup>1</sup>, that kept the modernization of public services delivery process among its main objectives.

To achieve the stated objectives, the Government requested the World Bank's assistance for a PAR operation, that became effective in June 2018, called Modernization of Government Services Project (hereafter *MGSP* or *the Project*).

The design of the project takes into account the objectives of the Government of Moldova for inter-sectorial digitalization and makes extensive use of institutional and technological achievements of Governance e-Transformation Project (GeT) implemented by the Government of Moldova and World Bank in the period between November 2011- December 2016.

This year, the new Executive issued its governing National Development Plan 2023 – 2025<sup>2</sup> that sets modernization of administrative services and access of population to electronic public services as one of its major objectives. The recently approved Public Administration Reform Strategy 2023 – 2030<sup>3</sup> reconfirms the determination of the Government to modernize the administrative service delivery system by improving access to public services through various channels, their efficiency, reduction of unnecessary administrative burdens and cost of services for both beneficiaries and service providers, ensuring a stable level of quality of administrative services. The last, but definitely not the least, the Government Action Plan for 2023<sup>4</sup> through its envisaged actions counts on MGSP support to continue expanding the development of electronic services and digital transformation at various inter-sectorial level.

Therefore, MGSP continues to play a very important role in achieving the high level objectives set up by the Government. The project aims to improve access, efficiency and quality of delivery of selected administrative services through the following components:

**1. Administrative Service Modernization**

The key activities under this component focus on re-engineering a group of government to citizen and government to business administrative services; piloting of one-stop-shops for public service delivery in selected locations and rolling out at national level; increasing public awareness on and advocacy for administrative services, with a particular highlight on e-services.

**2. Digital Platform and Services**

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<sup>1</sup> <http://lex.justice.md/index.php?action=view&view=doc&lang=1&id=366209>

<sup>2</sup> [HG89/2023 \(legis.md\)](#)

<sup>3</sup> [HG126/2023 \(legis.md\)](#)

<sup>4</sup> [HG90/2023 \(legis.md\)](#)

The main objective of this component is to digitalize selected re-engineered government services; complete and strengthen a common infrastructure and mechanisms for rapid deployment of ICT-enabled public services; introduce government wide IT Management and Cyber Security standards and procedures. The component finances the procurement of additional shared computing infrastructure elements, digitization of services needed to deliver Government services electronically, as well as the development of a learning management system to mainstream the new digital infrastructure and the modernized services within the government.

### **3. Service Delivery Model Implementation**

The objective of this component is to ensure that the institutional capabilities of key government agencies are aligned with and support the new model of public services delivery.

### **4. Project Management**

This component supports the Project Implementation Unit (PIU), based in the e-Governance Agency (eGA) and ensures the activity of the core e-Governance Agency team.

#### **Current situation in the sector**

The MGSP project is designed to reuse centralized infrastructures and platforms developed by the Government of Moldova in the framework of the first Governance e-Transformation Project. Major reusable components of the e-government infrastructure are listed below:

- MCloud – private government cloud computing platform
- MConnect – data exchange platform
- MPass – government electronic identity service
- MSign – government digital signature service
- MPay – government payment service
- MNotify – government notification service
- MPower – government authorization service
- MLog – government journaling service
- Public Service Portal – government portal for public services for citizens and business.

In the context of public services modernization, the Government is reviewing the existing infrastructures, platforms and centralized services (i.e. e-government infrastructure) in order to enhance them with new functionality as well as extend the infrastructure with brand new reusable components and services which will lead to better electronic public services.

In line with the above, the e-Governance Agency is adopting Agile and DevOps practices to streamline systems' development, collect feedback, improve systems' observability and automate operations for better service quality and response times in case of incidents.

The eGA already made significant progress in this area by containerizing several existing services and making new developments in cloud-native manner. The eGA cloud-native infrastructure currently includes automated CI/CD tools for deployment to Kubernetes using helm and several operators such as Prometheus/Grafana for real-time monitoring and alerting, cert-manager for automated certificate provisioning, EFK stack for log centralization, etc. The eGA plans to continuously improve and extend this stack.

## **II. Objectives**

The e-Governance Agency seeks to recruit an experienced national consultant for the position of DevOps Engineer to support the eGA in provisioning and maintaining automated deployment, operational tools and implement reusable PaaS services that support e-government infrastructure, sectorial services, as well as the environments on which they operate.

### **III. Scope of Work**

The DevOps Engineer will be part of the eGA core team and will primarily support the automation of deployment and IT operations of eGA operated governmental reusable services, such as MConnect, MPass, MSign, MPay and other services. The position includes tasks from the whole lifecycle, starting with investigating alternatives and proposing appropriate solutions, implementing their initial deployment, optimizing their maintenance, as well as automating the operational aspects of the tools, including logging, tracing, monitoring and alerting.

The final intent of the assignment is to support eGA in defining an efficient architecture for IT operations and reusable PaaS services. This approach has a broad impact on the whole lifecycle of products development.

#### Main activities and responsibilities of the DevOps Engineer:

- Implement automation tools and PaaS services;
- Maintain and optimize automation tools and PaaS services;
- Implement automated deployment, upgrade/downgrade, backup, log collection, monitoring, alerting and other reusable services;
- Monitor the industry for new tools or optimization of deployment for existing tools;
- Investigate alternatives for automation tools and PaaS Services;
- Provide technical consultancy on development projects on matters related to optimization of automated deployment and IT operations;
- Take part in procurement of goods and services by drafting Terms of Reference, technical specifications, contributing to development of bidding documentation, participating in offer evaluations and reporting;
- Other duties as assigned.

### **IV. Outputs**

The outputs of the DevOps Engineer will include the following but will not be limited to:

1. Automation tools implemented in an efficient manner and reported;
2. Technical evaluation notes and reports;
3. General operational requirements for product development;
4. Quarterly Activity Reports.

### **V. Timing**

This is a full-time assignment expected to commence in July 2023 with a three-month trial period. The contract may be extended subject to the Consultant's good performance and the same fee rate.

### **VI. Institutional arrangements**

The Consultant will work for eGA and will report to and work under the direct supervision of the Chief Digital Officer and Senior Enterprise Architect.

The Consultant will undergo an internal evaluation of performance using an individual standard Performance Evaluation Form that will be completed and updated by the Consultant, discussed with and approved by eGA, every 12 months. The first evaluation will cover the trial period.

### **VII. Resources**

The e-Governance Agency will provide working space, office equipment and communication facilities, as well as any other necessary means and support for Consultant in order to carry out this assignment.

## **VIII. Skills and Qualification requirements**

### **Mandatory qualifications:**

- University degree in areas such as computer sciences, engineering, telecommunications or related;
- Minimum 3 years of experience in IT area;
- Experience with DevOps and/or System/Network Administration;
- Experience working with source control systems, CI/CD, unit test and code coverage tools, containers and container orchestration (Kubernetes);
- Knowledge of logging, tracing, monitoring and alerting tools;
- Knowledge of network protocols and administration;
- Knowledge of database administration (MSSQL, PostgreSQL, Elasticsearch);
- Ability to effectively communicate and write in English and Romanian languages. Communication in Russian is an advantage.

### **Preferred requirements**

- Experience with Azure DevOps or .NET technologies;
- Experience with automated security tools;
- Certifications in DevOps, virtualization and container technologies, network administration, Linux and Windows system administration.