



دولة فلسطين  
وزارة التعليم والتعليم العالي

الجامعة الإسلامية

الجامعة الإسلامية - غزة

(IUL)221-ASS/221/2022/70

03 أيار 2022

الجامعة الإسلامية

الجامعة الإسلامية - غزة

الجامعة الإسلامية



## ***Terms of Reference for the Development of Reporting Module of ‘GEMEN’, E-council (Population) Portal***

### **Introduction**

Recording every life event is important to produce most accurate and complete maintenance of a national civil registration system in a country. Birth and deaths records have been maintained by local authority and they carry out the registration process of birth and issuance of birth and death certificate. In order to improve the recording of such live events and improve the day-to-day function of Councils, Local Government Authority (LGA) has rolled out ‘GEMEN’ module in July 2020. Today, any birth that occurs in the country is entered into the system through the health facility and Councils can easy view and issue birth certificate. The same goes for death.

Improving the quality of administrative data related to civil registration are the most reliable data sources for the monitoring of Sustainable Development Goals (SDG) and other national priorities. GEMEN system rolled out currently lacks the reporting module to generate the necessary reports on births and deaths.

Accordingly, the Local Government Authority seeks the service of software developer to develop the reporting module for E-council’s GEMEN Portal. This would include working with the team to generate required data tables by relevant agencies by given frequency, data extraction required for further analysis of VRS data, integration of GEMEN with district health information system (DHIS), customize table, and dash board with agency/public interface.

With assistance from UNICEF Maldives, the Local Government Authority wishes to hire One (01) energetic, self-motivated, organized and enthusiastic Developer to develop a reporting Module for E-council’s GEMEN Portal. This portal is a population manager which is used in all health facilities to record birth and death of the people, all councils use those records to generate certificates / registrations and DNR uses same information to generate official identification of individuals.

### **Objectives, Key Tasks And Responsibilities**

The objective is to generate reports in various formats required by the Gemen stake holders and develop a dashboard for the records captured by Gemen Portal. This will require the programmer to work closely with the stakeholders to achieve the following tasks:

- Plan, design and develop a reporting module to generate configurable reports in excel and PDF formats from E-council GEMEN Portal together with Dashboard for public and agencies separately.
- Study and understand complex software application systems to propose best possible ways to integrate APIs with other software.
- Design and develop high performance applications and APIs for the needs of integrating with different applications used to analyze GEMEN data.
- Train, assist and work with other developers at NCIT to ensure smooth handover of works to other developers before completion of contract.
- Work with end users and project team for timely resolution of application issues.
- Write, revise and maintain software program documentation, operations documentation, user guides and manuals in accordance with standards.
- Design and develop systems using TDD approach to development.

## **Deliverables**

- Proposed plan and design of reporting module (2 weeks from date of recruitment).
- Completed development of reporting module with customizable reports in excel and PDF formats and dashboards for public and agencies separately.
- Completed development of applications and APIs for integration with external systems.
- Documentation of development of modules, APIs and applications
- User guides and manuals

## **Primary Expertise, Qualification And Competencies:**

### **Educational Background and Work Experience**

The following mandatory qualifications and expertise will apply to the person/staff assigned for the project, from both individuals (sole proprietors) and companies/firms.

- MNQF level 9 qualification in related field (Information Technology / Software Development / Software Engineering) along with at least 2 years of experience in PHP and HTML5/CSS/JavaScript;

or

- MNQF level 7 or 8 qualification in related field (Information Technology / Software Development / Software Engineering) along with at least 4 years of experience in PHP and HTML5/CSS/JavaScript;

and

- Experience in Source Control (Git).

### **Added Advantage**

- Experience working with PHP Yii Framework
- Higher degree in Software Engineering / IT or related field
- Strong programming background with knowledge in modular based programming and use of emerging trends (e.g.: use of Ajax technologies)
- Good graphics skills and knowledge in UI design to improve usability
- Mobile Application Development skills for both IOS and Android
- Working knowledge of REST/RESTFUL API's
- Knowledge in full software development cycle including project formulating, version control and maintenance after deployment
- Project Management Skills - Good planning, scheduling, and analytic skills
- Good writing skills in Dhivehi and English
- Preferences would be given to individuals with demonstrated skills in implementing unit testing and integration testing
- Excellent communication skills
- Strong background in industry best practices and modern design patterns

### **Personal Skills & Competencies**

- Strong commitment and willing to work outside normal working hours when required
- Strong interpersonal skills
- Ability to asses and communicate issues clearly
- Strong problem-solving skills
- Attention to detail
- Strong time management skills
- Ability to work under pressure and deliver project objectives

## **Work Arrangement**

- The developer will be managed by LGA and will work under the supervision of NCIT. The outputs and deliverables will be assessed by LGA and NCIT.
- The developer will be stationed at NCIT.

## **Expected Input and Services by both Parties**

### Developer:

- Fulfill the milestones in the contract
- Consult with stakeholders at various stages of development and ensure their requirement is fulfilled
- Communicate complications in the assigned works
- Communicate with LGA and NCIT regarding work arrangements as necessary

### LGA:

- Brief on the project tasks and expected deliverables
- Review and comment on assigned tasks and completed deliverables
- Making payments according to the completion of deliverables
- Facilitate necessary meetings required by the developer

### NCIT:

- Provide the relevant documents as required
- Review and comment on completed deliverables
- Monitor assigned tasks of developer and report to LGA

## **Duration**

- 5 months

## **Contents of Job Application**

The job applications should comprise of the following documentation. Late submission of any of the documents will not be accepted.

- Letter requesting for the job,
- Copy of identification card,
- Copies of academic certificates (accredited),
- CV,
- Copies of references produced by previous employers.

## **Further Information**

Further information will be provided upon request through email to [info@lga.gov.mv](mailto:info@lga.gov.mv).

In this context, the Local Government Authority invites interested candidates to send applications, along with relevant documents to:

Due Date: 15th August 2022 14:30















