بسم الله الرحمن الرحيم

TERMS OF REFERENCE

1. Introduction

Post: Software Engineer

Post type: Contract (Initial contract shall be for a period of 2 (two) years. The contract can be extended based on performance.)

Location/Department: Maldives Customs Service Head office

2. Reporting Relationships:

The Software Engineer will report to the Head of Information System and Communication Section and/or other designated supervisors.

3. Overall scope of work:

The Software Engineer is responsible for designing, developing, testing, implementing, and maintaining software applications and systems to support the organization's operational and administrative requirements. The role involves ensuring software quality, system reliability, security, and performance while providing technical support and contributing to the continuous improvement of existing systems.

4. Main responsibilities:

- Gather and document detailed requirements in software requirement specification documents.
- Analyze user requirements and translate them into technical specifications and software solutions.
- Design, develop, test, and maintain software applications in accordance with organizational requirements.
- Develop, modify, and enhance existing applications, systems, and modules.
- Write clean, efficient, maintainable, and secure code in accordance with established coding standards.
- Writing and optimizing SQL queries.
- Integrate software applications with existing systems, databases, and third-party services where required.
- Conduct unit testing, integration testing, debugging, and troubleshooting to ensure software quality.
- Identify, investigate, and resolve software errors, bugs, and performance issues.

- Prepare and maintain technical documentation, user guides, and maintenance records.
- Implement appropriate software security measures and ensure compliance with organizational IT policies.
- Collaborate with users and technical staff to identify system improvements and implement solutions.
- Provide technical support and guidance to users regarding software-related issues.
- Monitor application performance and recommend improvements to enhance system efficiency and reliability.
- Participate in software deployment, system upgrades, data migration, and implementation activities.
- Maintain version control using CI/CD tools such as GitHub, and follow established software development and change management procedure.
- Participate in code reviews, both reviewing peers' code and incorporating feedback to improve code quality.
- Apply established design patterns and architectural guidelines under the guidance of senior engineers.
- Perform other duties related to software development and information technology as assigned by the supervisor.

5. Desired Skills & Competencies:

- Strong programming and software development skills.
- Knowledge of programming using AI tools.
- Knowledge and experience in programming using C#, Java, and Python.
- Analytical thinking and problem-solving abilities.
- Knowledge of RDBMS including writing SQL queries and query optimization.
- Knowledge of software testing, debugging, and quality assurance.
- Ability to develop secure, reliable, and scalable software solutions.
- Understanding of system architecture, APIs, and software integration.
- Knowledge of operating systems, including Windows and Linux.
- Strong commitment to deliver quality work.
- Ability to work independently and collaboratively as part of a team.
- Good written and verbal communication skills.
- Ability to understand user requirements and provide appropriate technical solutions.
- Effective time management and ability to meet deadlines.
- Willingness to learn new technologies and continuously improve technical skills.
- High standards of professionalism, confidentiality, and integrity.