

Job Description of Software Developers

Number of position: Four

Duty station: ICAP SI Project Head Office, Addis Ababa

Position Summary:

The Software developers will work with the project stakeholders and end users to undertake implementation of an OpenMRS HIV Reference Implementation (OHRI) with a focus on driving data exchange and interoperability across the HIS systems to improve efficiencies for providing patient care, improving program monitoring and leveraging analytics for data driven decision making. They will be responsible for designing and co-leading the technical approach for developing and eventually implementing OHRI. To ensure bi-directional data exchange between electronic medical records systems and aggregate systems and patient's tracker system, the Software developers will bring expertise to activities related to developing standards-based (HL7, FHIR) interoperability between EMR, Lab, and Case Based Surveillance systems and development of program workflows within OHRI. They also support other existing systems such as ERM-ART, EMR-Pharmacy, DHIS2, REDCap and Viral load dashboard. The Software developers will also provide technical support regarding software development and updates, implementation, maintenance and capacity building activities among all supported project sites. They will be responsible for testing and installing software solutions.

Duties and Responsibilities:

- Analyse detailed customer requirements and coming up with a solid systems architecture and design including participation in development of a thorough functional requirements document
- Determine operational feasibility by evaluating analysis, problem definition, requirements, solution development and proposed solutions
- Provide technical support regarding software development and updates, implementation, maintenance and capacity building activities among all supported project sites.
- Undertake stress, performance, functional, scalability testing of the system
- writing and executing test scripts, running manual and automated tests, testing in different environments
- Prepare and install solutions by determining and designing system specifications, standards and programming
- Prepare reports, manuals and other documentation on the status, operation and maintenance of software
- Develop a system for data migration from the old to the newly developed system and support the process of data migration

- Identify any gaps between system requirements or end-user needs and the existing systems and provide support to enhance the system accordingly
- Develop and refine integration between applications
- Support, version tracking, packaging application software and support releases of final product
- Research and evaluate a variety of eHealth application software products
- Collect user feedbacks and timely address through enhancing the system
- Work collaboratively with FMOH, RHBs, facilities, funder, and other stakeholders to achieve goals
- Complete performance reports regularly
- Carry out other tasks as required

QUALIFICATION AND WORK EXPERIENCE

- B.Sc. degree in software engineering, software development, or appropriate field of study and more than 3 years of experience in software and systems design.
- Strong experience in software systems architecture and design
- Hands on experience using Spring, Hibernate, JQuery, Liquibase, Git, Restful web services, Maven
- Experience with React and Micro-frontends-based architectures
- Experience in developing data-driven applications utilizing significant relational database engines as part of the overall application architecture (experience with any or all of the following highly desirable: PostgreSQL, MySQL, Oracle, MS SQL Server)
- Proficiency developing and troubleshooting complex software systems that run in mixed environments including Linux, Unix and/or Windows on desktop, server, tablet, and mobile systems
- Experience on setting up and optimizing a CI/CD pipeline.
- Proficiency using Docker, Kubernetes.
- Experience working on ELK Stack.
- Strong experience using Integrated Development Environments (IDEs) including Visual Studio, Eclipse, Net beans, etc.
- Experience working within a large team.
- Ability to work with customers/benefitters/domain specialists to define and execute on functional requirements
- Experience working in health-related software