

Ministry of Health
Basic Requirement for Developing Single Sign-on Service at
Ministry of Health
Terms of Reference

A- BACKGROUND:

The purpose of Single Sign On service is to allow use of a single account across all the services being provided by the Ministry of Health (MoH). The Ministry of Health provides many public services from different areas at different locations. Many of the services across MoH are being digitized every day. Many services are only provided through online platforms. Therefore, SSO service will allow use of a single account to access all the services of MoH and sign into applications easily with use of sign in methods such as OTP sign in.

B- OBJECTIVES:

The objectives of the assignment are to design and deliver a Single Sign on Service with multiple sign in options.

C- SCOPE

Develop and deliver a Single Sign in Service as per the given requirement.

D- Basic Requirement

- a. System will have a login option for users with a simple and user-friendly screen.
- b. Manage multiple user types: multiple user types should be available in the system.
- c. System should allow verified users to sign in using an otp sent to a mobile phone or email.
- d. System should allow users to sign in using a signed link sent to phone or email.
- e. Users should be categorized into multiple levels based on the verification method used by the user. when a user attempts the initial registration system should crosscheck with provided multiple sources to verify the user. Depending on the verification sources, user verification level is defined.
- f. User federation. (Internal users and external users)



- g. Application Management.
 - i. Manage users access to client application
 - ii. application scope management
 - iii. Option to define minimum user level required to access the application
 - iv. List all available applications.
 - v. Update, add and delete applications token issued to.
- h. System should be integrated with efaas for login. users signing in through efaas will be verified automatically.
- i. LDAP integration
- j. user management
- k. client management
- l. audit log. Should include audit logs for all actions by the user. The logging approach must be scalable.
- m. OAuth grants
 - i. authorization code
 - ii. client credentials
 - iii. refresh token
 - iv. implicit flow
 - v. password grant
- n. Token Management
- o. password reset
- p. User verification mobile/email
- q. user verification level

E- Training

When delivering the project.

- a. . Training for Technical staff
- b. Training for administrative users
- c. General user training for selected staff

F- Technical Requirements

- a. application backend must be developed using Golang or rust



- b. application must be horizontally scalable (each component independently)
- c. Application user interface should be built using AngularJS or ReactJS.
- d. Databases should be on MySQL, PostgreSQL or MongoDB.
- e. The application must employ remedial caching layers to optimize response rates.
- f. Application must be version controlled.
- g. Applications must be responsive for various screen sizes.
- h. Application should be containerized. The repository must include necessary configuration files and technical user guide on how to use the application in containerized mode.

DELIVERABLES

- SRS document with detailed functional features and work flow diagrams.
- Technical documentation with deployment information, application dependencies and deployment environment setup.
- User documentation
- Admin user "User Documentation"
- SSO server with required features
- Source code of the application
- Deploy and test application
- Support for 6 months

RESPONSIBILITY OF CONSULTANT

- The selected party must submit SRS before commencement of work and get the contents in SRS approved by the Ministry.
- The selected party must get all features approved and provide support for any change required during the initial acceptance period.
- The selected party must provide attest 5 Months support after delivery of the project.
- The selected party must follow any other requirement or procedures included in this document.



RESPONSIBILITY OF CONTRACTOR

- Contractor (Ministry of Health) shall provide any API, secondary dataset and/or database to the consultant which is required to be integrated.
- Contractor shall monitor the process
- Contractor shall evaluate the application upon delivery and ensure that the system meets requirements.

ELIGIBILITY

The following are eligibility criteria with documented proof for this project.

- Contractor or firm (or team member/s) should have a developer with minimum academic qualification of Level 7 standard approved by Maldives Qualifications Authority in the field of Information Technology, Software Engineering, Computer Sciences', or relevant field.
- Contractor or firm (or team member/s) should have delivered at least three software development projects successfully.
- Must be a firms or businesses registered under Ministry of Economic development

Added Advantage

- Technical knowledge on emerging internet technology and trends would be an added advantage.
- Working knowledge of security technologies would be an added advantage.
- Ability to deliver results based on agreed deadlines
- Having worked on similar projects.

Marking Criteria

1. Price – 50% (Quotation with the lowest price will be awarded the highest point and for the rest, points would be awarded by (ratio)
2. Qualification in relevant field – Total 20% marks includes: -
 - Diploma –5%,
 - Degree – 10%,
 - Masters – 20%

3. Experience – 20% ‘Experience in software development’ (Each experience letter would be counted as 5%)
4. Duration – 10% (shortest duration 10%, then on ratio basis compared to the shortest duration)

Payment Schedule

Initial Payment	Upon delivering the deliverables	60%
Final Payment	Upon User acceptance after using the system for no more than 3 months	40%

Within the first 3 months after delivering the project and implementation, MoH shall assess the system and provide the feedback on features and bugs to be undertaken. Once after successfully delivering the system after amendment for comments, MoH shall provide an acceptance document to the contractor. After the acceptance is received, contractor may submit the invoice for 40% of “Final Payment”

(Please assure that if the below documents are not submitted the bid will be disqualified)

Submission requirement

Only business entities registered under Ministry of economic development are qualified for the submission.

1. CV of team members with past projects along with public url.
2. Team members Qualification (certificates)
3. Commitment letter of the Developer /Developers
4. Experience letters
5. ID card copy
6. GST registration copy (if registered)
7. SME registration copy / Company registration copy
8. Tax clearance report (2 months from the date of submission)
9. Quotation

10. Technical proposal addressing “Technical requirements” and “Deliverables”.
Technical proposal must include the proposed stack for each component. If contents in “Technical requirements” and “Deliverables” could not be verified from the proposal, submission will be disqualified.
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