

# Lesotho Public Financial Management Hackathon

## Frequently Asked Questions

### How is a digital signature different from an electronic signature?

An electronic signature is a broad term for any electronic process that indicates acceptance of an agreement or a record.

A digital signature refers to a more secure electronic signature that is generated using a digital certificate and cryptographically bound to the document using public key infrastructure (PKI).

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### How long does the proposal document need to be?

Proposals should be a maximum of ten pages in length.

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### What needs to be in the proposal document?

A team needs to articulate the following aspects

- A clear approach to a solution to develop a digital signature using the national digital infrastructure.
  - There must be an indication of technologies to be used.
  - Highlight security considerations if any
  - A high-level architecture is also required to provide an overview of the utility
  - Team skills composition to show experience and capability to prototype the digital signature
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### Will we be provided with APIs ahead of time?

Teams will be provided with the data structure (JSON format) of the National Identify Infrastructure to know what data is available, the format and how to make queries on the data.

Only the top 5 teams will work with the APIs against a test environment that will be setup for the hackathon.

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### Can a team use external APIs and resources?

The digital signature must be created to authenticate onto the National Identity Infrastructure managed by the Ministry of Home Affairs in Lesotho of which APIs will be provided to authenticate with a 12-long numeric ID number.

A team shall use Open-Source technologies to develop the digital signature prototype and produce APIs to help integrate with other systems/services.

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**What criteria will be used to assess the proposal?**

The selection criteria for the top 10 proposals will include an assessment of how the team approached the development of the digital signature utility.

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**What if a team can't find all the specific skill sets members?**

A team might fit the skills reflected, and as such, it is required to indicate any related skills, experience, and capability to fit development needs.

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**What architecture framework should a team use?**

It is recommended that teams use the C4 Model and highlight the system Contexts and Containers based on the C4 Model.

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**Can a company apply to participate in the Hackathon?**

A company is allowed to enter a team but shall not be directly involved in the set preparation or setup of the infrastructure including that will be set up for the hackathon and the IFMIS system.

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**Do we have to focus on the Finance Ministry, or can we choose another as a use case?**

For the hackathon, a team may choose any ministry in Lesotho to prototype the solution and authorize a user against.

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**Is it real time coding? How is the hackathon laid out?**

The top 5 successful teams will be selected by the 10th of January 2023 and will go through a work sprint session to prepare development with the mentors. During the hackathon, 24 -26 January 2023, teams will focus on writing code, testing and implementing the digital signature prototype. The Teams can code the prototype as in advance as they want.

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**To whom does the Intellectual Property belong?**

The Intellectual Property belongs to the hackathon host- Government of Lesotho. At the end of the hackathon, the prototype and the source code of the solutions will be handed over to the Ministry of Finance in Lesotho for implementation.

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**What if some of the team members are based outside of Africa?**

Travels and accommodation will be provided to participants in Sub-Saharan Africa. A team may not have more than 3 participants who are outside Africa and own provisions must be made to get to a Sub-Saharan Africa country. Accommodation may be provided on the twin sharing basis.

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**Are we allowed to have less than 5 members in a team?**

Each team is expected to reflect a set of skills outlined below and as such, a team should have 5 members who will complement the development of the utility.

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**Can I be in more than one team?**

A participant is only allowed to be in one team only.

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**Can a team provide more than one solution?**

No, a team is only allowed to submit one solution for the hackathon.

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**Having been match-made, I'm I allowed to change team members?**

A participant may no longer change a team beyond 15 December 2022, 23:59PM.

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**What type of a solution are we expected to produce?**

A digital signature utility is required, and this may be an info form of a web service with a user interface to provide authentication and redirect mechanisms.

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