xxRFP-2022-012

Wallets & the xx Messenger

This xx foundation request for proposals will fund the integration of payments with the xx Messenger. This request will focus on the user having a wallet which may be registered on the messenger. Registration will be done via an extant API. You may refer to the Architecture section for more detail. Cryptocurrency integration is part of [xxRFP-2022-013](#).

The xx foundation is offering a competitive bidding process to complete this work, with independently compensated phases. The [selection process](#) will analyze each phase individually according to the response contents, the proposed compensation, and the proposed final deliverable dates and contents. Proposers are expected to propose for all phases.

Requirements

The xx foundation requests the creation of a wallet which adheres to our provided API. It will be the decision of the proposer whether this wallet should be built from scratch or based on an existing wallet implementation. Regardless of this decision, this wallet will, at minimum, provide the ability for a user to send and receive cryptocurrency. Additional wallet features such as holding multiple addresses, a chain explorer, etc. are not considered minimum requirements. However, proposals containing additional wallet features may be weighed more heavily upon review by the xx foundation.

This proposal will require the definition and implementation of a wallet that adheres to the extant API. There will need to be a demonstration that the proposed wallet may be successfully registered using the API. The wallet must adhere to the minimum features previously mentioned.

Architecture

The architecture for wallet and the cryptocurrency backend is documented in the [Payments Mechanism for xx messenger document](#), in the Architecture section. The proposed API for the wallet registration can be found in that document as well, under the API section.

As per the referred document, the API as specified is subject to change during implementation. As of writing, the API has not been implemented. Contact the xx foundation for more information on the latest version of the API.

Phases

You may propose your own phases, but the following phases are desired:

Phase 1: Proof of Concept—Implement the basic version of your proposed design and submit a final design. This should include final versions of any cryptographic primitives (if applicable) and fully explained versions of all data structures and sub-protocols.

Phase 2: Software — A functionable demonstration of the proposal, which will have two connected milestones:

a: Command Line Tools —Fully functional command line tools which fully exercise your proposed system without a user interface.

Submission Instructions

Proposers should submit their proposals, in English, to the following website:

- https://xxfoundation.org/archive/xx-foundation-announces-the-xx-dapps-grant-program

Note that proposals are divided into 2 parts: An anonymized technical proposal and a staffing proposal. The technical proposal will be posted online and should not contain any identifying information about your organization or staff. The staffing proposal will contain resumes and additional evidence for why you and your team are qualified to do the work you propose.