

Instant messaging app for Obyte [GRANT]

What?

We propose to build a mobile-only instant messaging app like many other IM apps (Whatsapp, Viber, Messenger, Telegram, Signal, WeChat, Skype, Slack, Discord) available already out there, but the difference is that it will have Obyte cryptocurrency wallet built-in before many other messaging apps add these features to their existing apps.

Messaging apps are social apps, which is a very competitive area and many features in social apps get released in waves, meaning that these companies add certain features after some other app has already done it and that feature became a success. Some of the examples are Snapchat filters, Instagram Stories, voice calls, team chats, chatbots, end-to-end encryption. We believe the next thing that many messaging apps and social apps are going to add is cryptocurrency payments. If that will not happen this year, it will definitely happen next year when Facebook launches Libra cryptocurrency.

Why?

Obyte official wallet is very powerful as a demonstration what Obyte platform can do, but it is not user-focused (it's more like from developer to developer) and it is too complicated for somebody who has little experience with cryptocurrency wallets. Also, some of the most powerful Obyte features like P2P betting and conditional payments are hidden behind the action of pairing 2 devices. By making the app as a messaging app first (not cryptocurrency wallet first), which will have cryptocurrency wallet built-in, it will appeal more to users who are familiar with messaging apps but are not yet familiar with cryptocurrencies. Pairing with somebody should be as easy as accepting somebody to your contact list and making a sports bet or cryptocurrency price bet should not be done on a generic form that can be used for any smart-contract - that is not user-friendly. The UX/UI should be designed around what the user expects from the app in order to do it, not what the developer needs from the user to fill in.

How?

The mobile-only messaging app doesn't need to be fully featured Obyte demonstration and it should only focus on those users who use chatting apps need, we would a new app with React Native and initially we would only need the following features for the MVP (minimum viable product):

- Generating seed words for new users.

- List of chats and individual chats
- Pairing with QR code, NFC tag (Android) and deep-link on website
- Generating new address for every new payment request
- Sending payment to contact, QR code, NFC tag (Android) or deep-link on website
- Receiving payment from anyone, wallet balance and history
- Sign message feature (also for request address function)
- Ability to do P2P Bitcoin exchange smart-contract
- Ability to do P2P cryptocurrency price bet smart-contract
- Ability to do P2P sports bet smart-contract
- Showing signed smart-contracts
- Setup dedicated Obyte hub and in-app push notifications

Some of the code logic could be copied from BIoT wallet, which is written in React, but the UI code needs to be rewritten in React Native. Code for doing the smart-contracts can be copied from official Obyte wallet but needs to be redesigned and rewritten for the messaging app.

When?

The development will be divided into 4 stages:

- **Milestone I - 16 August:** forking BIoT wallet or starting clean, first mockups from UX/UI designer, branding. [Payment on finish: 3000 EUR]
- **Milestone II - 2 September:** designs from UX/UI designer, chat list, individual chats, pairing, requesting/sending/receiving bytes. [Payment on finish: 9000 EUR]
- **Milestone III - 19 September:** P2P exchange, P2P cryptocurrency betting, P2P sports betting. [Payment on finish: 8000 EUR]
- **Milestone IV - 25 September:** testing, polishing, unexpected features and releasing to app stores. [Payment on finish: 5000 EUR]

Where?

The project will be open source under MIT license and will be publicly available on Github by the time of releasing it to app stores.

Who?

Bind Creative is a creative software development consultancy specialising in engaging, forward-thinking technology and products. We provide analysis, strategy, development services and fully managed projects to established companies, early-stage start-ups and

agencies around the globe. Focusing on creativity, data and experiences, we help our clients bring new product vision to market.

People who will work on this project:

- **Alvar Laigna (Technical lead)** - As a software architect, Alvar is responsible for the architecture vision, software design and realization. Alvar has over 17 years of professional experience in software development. He has worked with organizations across many industries to aid in implementing the right technologies to meet business needs.
- **Kristjan Pikk (UX/UI designer)** - Kristjan is an experienced graphic designer. Giving his best to learn to combine business and user goals through impactful design.
- **Daniel Laanpere (React Native developer)** - Daniel is the lead React & React Native developer. With more than 7 years of experience in leading, and managing highly talented teams of product development specialists, he has helped build and scale successful businesses in finance, social media, social networks, and search.
- **Kristen Sepp (React Native developer)** - Kristen is React Native, React and Front-End engineer. He is using his deep understanding of JavaScript, HTML, and CSS to create optimal, user-friendly interface for our customers.
- **Tarmo Annus (Obyte advisor)** - Tarmo has over 10 years experience with web technologies and is Obyte core team member. For this project, he will make sure that the developers get all the know-how that is needed to build an instant messaging app with Obyte wallet features built-in.

Risk assessment

The main risk is that some tasks may take longer than expected, but this risk is managed by assigning more than one React Native developer to the project and with the possibility to assign another developer to project in case one of them gets sick.

Future developments

Here are some of the features that will not be developed within this grant proposal, but could be developed in the future:

- Restoring funds with seed words (it will suggest to use official wallet until then)
- Bot store (deep-linking to bots will be still working)
- Finding messaging app users around you using WLAN or Bluetooth
- Private profiles
- Group chats

- Photo uploads in chats
- Multi-signature wallets
- Prosaic contracts



Project: Crypto Chat project.mp
Date: Wed 24.07.19

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress