

TELEGRAM BOT

TLDR: [\(Quickly skip over Slides\)](#)

General Idea

A telegram bot (Endubis Wallet) payment system for quick and low-fee payments for small, everyday items, and storage of ADA.

The proposed Telegram bot will be implemented in Ethiopia to provide better p2p buying and easy trading options.

Endubis Wallet will be a messenger-based software solution for trading and buying ADA. A client-side application based on existing infrastructure, Endubis Wallet is built on Telegram messenger with principles of decentralization. Endubis focuses on optimizing usability and security for users looking to easily move ADA for use in different markets. Whether needs are compensating someone for a small freelance gig, tipping a barista, or purchase of tickets in various events, Endubis Wallet users can send funds to its destination using only Telegram usernames.

About Telegram

In such a sensitive political space, Telegram offers end-to-end encryption as well as a self-destruct timer that can remove messages without a trace. There's also the option of checking your secret chats using an image that serves as an encryption key. The app's programming interface also allows developers to create tailor-made interfaces for free instead of the one-size-fits-all functions of apps like WhatsApp. Telegram, which currently supports eight languages, is also expanding the number of languages developers can build into the apps. It also supports external language packs which help localize content and messaging.

Sutikno et al. (2016) compared WhatsApp, Viber and Telegram. The result shows that Telegram offers better backup features and security than WhatsApp and Viber. The authors added that Telegram is the best messenger platform among those three apps.

Telegram in Ethiopia

Telegram is one of the most popular communication platforms in [Ethiopia](#), more than WhatsApp and Viber. One reason could be that gaining access to the internet is still very difficult in Ethiopia, with internet penetration at just 15% for its over 105 million population.

Part of the problem is that data is expensive and not competitive, given the government's monopoly over all mobile and internet services through the state-owned Ethio Telecom.

The digital finance services delivery system is still in its infancy in Ethiopia, and the country has a long way to go in building its e-commerce system. But Telegram has allowed retailers and entrepreneurs a cost-effective way to promote products and provide timely and consistent information to customers. Users are also able to pay for goods and services.

Bot Features and Requirements

Our Telegram wallet will allow anyone in Ethiopia to easily hold ADA or ADA to local currency. Users will also be able to purchase cryptocurrency with local fiat money (ETB).

Overall, buying cryptocurrency can be confusing for many users in Ethiopia, as none of the buying options work in Ethiopia. With the integration with local bak telegram bots such as @Amole and @telebirr, users in Ethiopia can become verified to purchase cryptocurrency with their local currency within minutes. Endubis Wallet is focused on community and evolution to continue to optimize financial technology for users to easily and safely manage their fiat and digital assets at their own pace based on individual needs.

The Telegram bot is required to provide information such as current market price, trading options with local currency, sending ADA to friends via username, and staking options.

Risks

- Technical Obstacles

Telegram API Performance Limitations

Currently, Telegram is limited to sending a maximum of 100 requests per second to the backend. Whenever the Telegram API detects a request has not been processed, it will start to repeatedly resend the request, flooding the backend on its own.

- Industry and Market Risks

There are no laws regarding cryptocurrency in Ethiopia. This could easily change as adoption grows.

Deployment and Marketing

The design of the bot will take approximately 2 weeks and a beta version can be released within 2 months. Initial users will be gathered through promotion in various cryptocurrency Telegram

groups and Tech events happening regularly in Addis Ababa. We will expand this through a referral program and various incentives for using their ADA in real-world functions.

Milestones and Reporting

1. Analysis and design stage - Week 1
2. UI/UX Design - Week 2
3. Backend Design - Week 3-4
4. Integration with payment platforms - Week 4-5
5. Alfa testing - Week 6
6. User Registration - Week 7
7. P2P trading options - Week 8
8. Beta Testing - Week 8-12
9. Loans and Credits Options- Weeks 12-15

Sustainability

The wallet will sustain itself through the staking and loan features it will offer for ADA holders.