User and Installation Guide

Scott Van der Wiel
Robin Kay
Jack Schroer
Taewoong Won

1. **Introduction**

The product should be downloadable from the github and then should be able to run offline and generate a private key and a public key pair. The user should have a good feel for the user interface, as it is self explanatory and intuitive. A main factor into how the wallet works with the bitcoin blockchain relies on the implementation of the public key api from bitcoin. This will allow all transactions that the user does through the blockchain with their public key which was generated from our wallet, to be considered real transactions on the public ledger, the blockchain. This wallet only generates a private key and a public key pair for storage. To conduct actual bitcoin transactions, users should use this wallet in combination to other online wallets that are capable of making actual transaction with the key pair generated from this wallet.

2. **Installation and Build Guide Details**
    a. Install Java on your computer
    b. Download JAR file from GitHub
    c. Run JAR file

3. **User's Guide**

- Upon opening the program for the first time, the first password that you enter will be the password that is saved to open the wallet in the future.
- Once password is entered, the wallet interface will open.
- From here, there are three tabs the user can cycle through: key management, transaction management, and cold storage.
- Key Management: User has the ability to generate a new key pair, or view their public / private keys.
- Transaction Management: User can either sign a transaction with their private key, upload a transaction to the text area, or export a transaction to a text file.
- Cold Storage: When the user selects display keys, the keys will appear in the text fields. The user can then select export, and the keys will be written into a text file.

4. **Gallery Maintenance**

There are three tabs the user can cycle through in Testudo: key management, transaction management, and cold storage. User can simply move to a tab by clicking the tab they want.

5. **Known Issues and Vulnerabilities**

The current code is capable of all functions of an offline wallet except for executing transactions online. Due to time constraints and refactoring, the creators did not have time to make this a full service online wallet, and instead focused on key generation, password protection, and transferring keys into cold storage.