

# The Elsie Toolkit



The [Elsie](#) is more than a currency. It is a secure application environment built on existing and specially developed hardware and software networks and protocols.

This module will cover both current capabilities and plans. The specification will be detailed in the [VIP Treasury](#) business plan, and development could follow a different path than the one specified here.

In the current release, accounts are associated with individuals, but group accounts are essential for cellular democracy and business partnerships. Accounts can also be associated with multiple identities, and each identity in an account can have different [access rights](#).

Accounts hold Elsies and U.S. Dollars. Any money movement between accounts is a transaction recorded and saved for 100 years.

The default currency during Phases I and II is the "[Peg](#)." The Peg is any combination of U.S. dollars or Elsies at the peg. During Phase I, the peg is fixed at 1:1, so the two currencies are perfectly exchangeable.

Merchants who accept Pegs for all online transactions are given a free listing in the Elsie Toolkit shopping app. Those who accept Pegs for in-store transactions via a QR code or biometric identity will be highlighted.

## Invoices

Most transactions are done through invoices. There are three use cases, with the first two supported in the initial release.

1. The user follows a link to the merchant's website from their account. The URL is appended with a coded string that is good for several hours. The merchant calls an invoice template library for each line item as the user fills the shopping cart or at checkout. A function is called that creates an invoice

on the user's account with the template and coded string. The user is notified and pays the invoice to complete the transaction.

2. An invoice template is created in-store at the cash register. The user displays a representation of the current coded string for their account on their smartphone. The merchant camera picks up the representation, and the function to create an invoice on the user's account is called. The user is notified and pays the invoice to complete the transaction.
3. An invoice template is created in-store at the cash register. The user enters biometrics, obtains the coded string, and creates an invoice on their account. The user is logged in to their account on the merchant screen and taken directly to the invoice page. Once the user has paid or deleted the invoice, they are automatically logged out. (This third option is not supported in the initial version of the Elsie Toolkit).

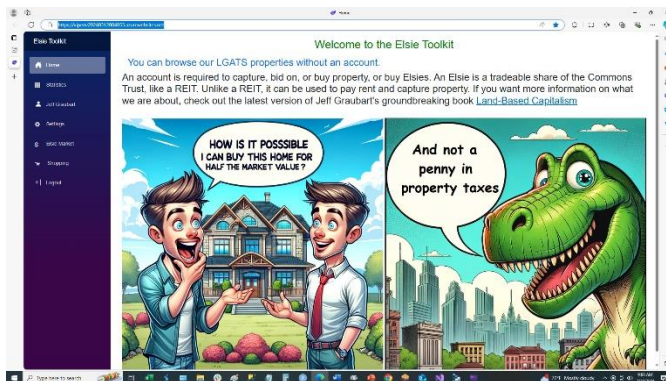
## Earmarking

An account can be [earmarked](#). An earmarked account can only purchase a defined set of products. Another entity typically creates earmarked accounts within a space. Earmarking is not supported in the initial version of the Elsie Toolkit.

Funds can be moved from an earmarked account to a more restrictively earmarked account but not to a less restrictive one. Other restrictions could apply. Only a purchase transaction for an item covered by the earmark can move the currency into the merchant's earmark-free account.

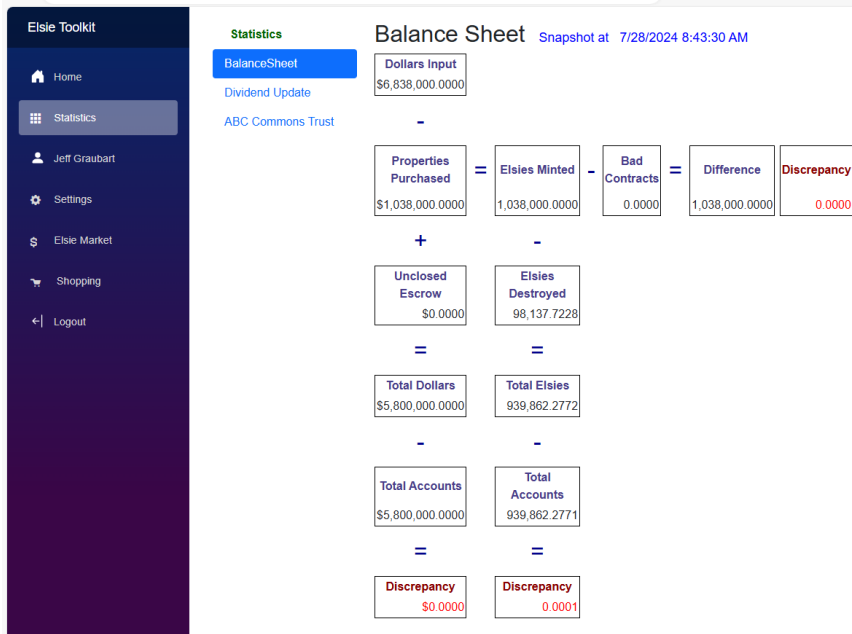
The creator of an earmarked account can set an expiration date at which the money returns to a non-earmarked account. For a complete discussion, see the module [Earmarking](#).

## Features of the Current Toolkit



Even without logging in, the home page gives users access to [LGATS](#).

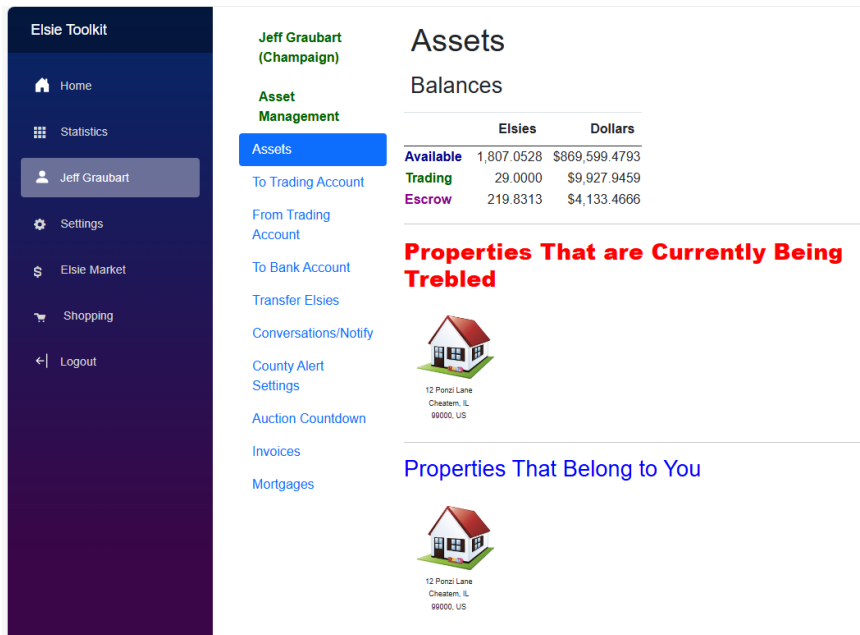
There are also links to the online version of this book, and if we have a sponsor for the day, their advertisement might replace the default graphic.



Statistics are also available without a login. The balance sheet shows Elsie and U.S. Dollars in the system and any discrepancies, such as the .0001 Elsie discrepancy between Total Accounts and Total Elsie due to a roundoff error in the code.

Dividend Update shows dividend statistics for

the last 30 days, and ABC Commons Trust shows the daily trust distributions and any associated Elsie Market trades.



The user's home page is only available after logging in. It displays assets, including currencies and properties.

There are many possible property categories, although this poor user's only property is being trebled.

Other submenu items

on the home page include moving available funds to and from the trading account, moving U.S. dollars to and from a bank account, and transferring Elsie to other users without an invoice. The system highlights the conversation and notification portal menu item if there are new messages from other users or new system alerts.

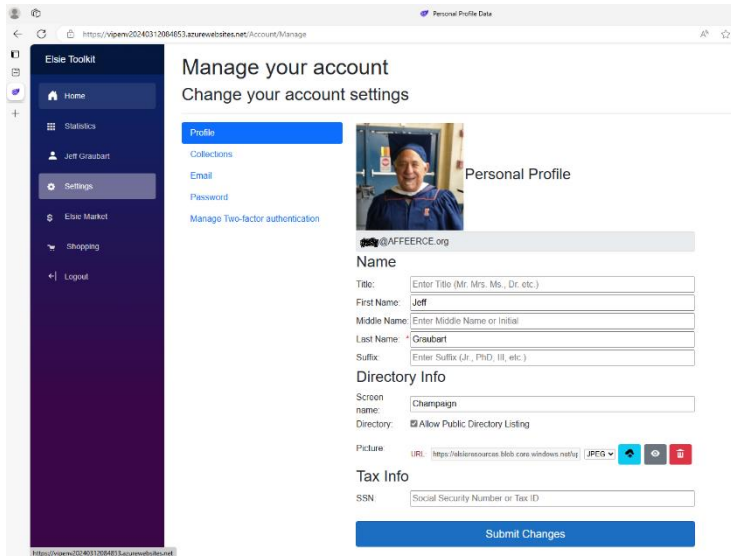
The screenshot displays the 'Conversations' interface. On the left, a sidebar lists navigation items: 'Jeff Graubart (Champaign) Asset Management', 'Assets', 'To Trading Account', 'From Trading Account', 'To Bank Account', 'Transfer Elsie's', 'Conversations/Notify' (highlighted), 'County Alert Settings', 'Auction Countdown', 'Invoices', and 'Mortgages'. The main content area is titled 'Conversations' and includes a 'Notifications' section with a red bar stating 'You Have New Alerts'. Below this is a '- Find Conversation Partner' button and a 'Find Conversation Partner' section with a 'Select recipient from user directory (type leading letters)' prompt and input fields for 'Last Name' and 'First Name', along with a 'Show Alerts' button. A chat history section shows a conversation with Lynn Ho-Chen, including a profile picture and two messages: 'I am buying it back' and 'And now I will sell it back to you!!!'.

Jeff Graubart and Lynn Ho-Chen had a not-too-brilliant conversation during property sales testing. Jeff should click on his “You have New Alerts” button. It is probably a deadline for matching the treble.

County Alert Settings allows the user to register for alerts by county for property events, such as treble, auction, for sale, etc. Auction Countdown is a live countdown to the next auction. The number of bidders in the auction is dynamically updated, and the winner and winning bid are announced.

The Invoices menu item displays unpaid and paid invoices and allows invoices to be paid or, in many cases, deleted. The system will highlight this tab if there are any unpaid invoices.

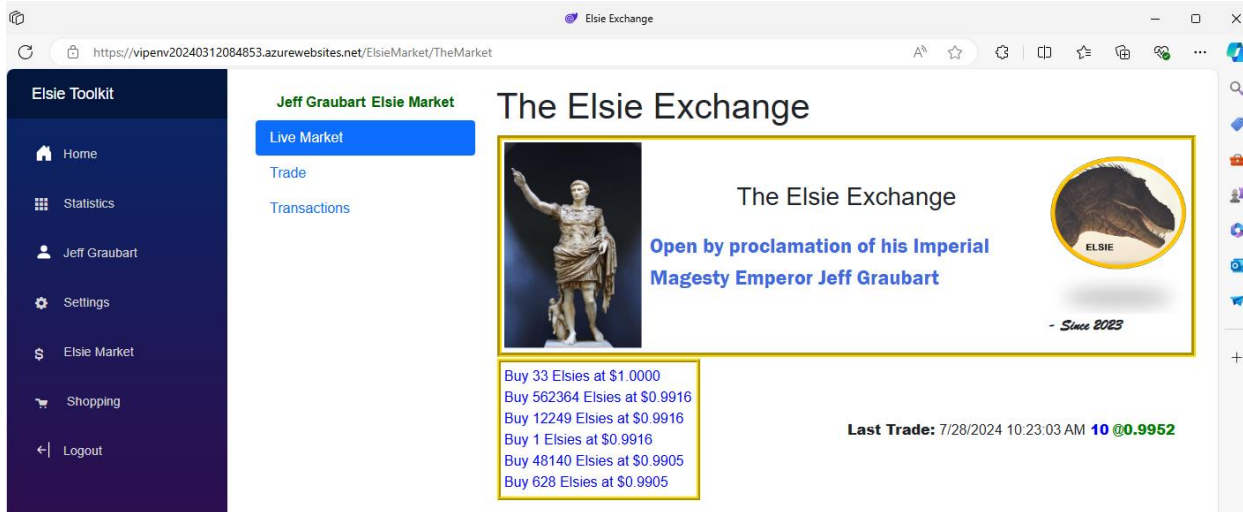
The Mortgages menu item will show the details of any outstanding property mortgage, including the principal balance, interest rate, next payment date, payment amount, and number of payments remaining.



The settings menu under the profile tab allows a person to specify a unique name, including the screen name in parenthesis after the full name. The profile picture and tax info for those who buy or sell property or trade on the Elsie Exchange.

The collections sub-menu lets a person enter multiple street addresses, email addresses, and phone numbers.

The Email submenu item allows one to change the login identifier. Password lets a person update their password, and "Manage Two-factor Authentication" does just that.



My name is a placeholder for the person paying the world's highest ground rent, who has the right to call themselves emperor (or empress). Although they have no official political power, their name and picture will be widespread, such as in this proclamation opening the Elsie Exchange.

The six closest buy and sell open orders are displayed. In this testing environment, there is a severe Elsie shortage. There are only buyers of Elsies and no sellers. In an implementation environment, this is only possible if property sources dry up. Notice that one bidder will pay the total peg price for 33 Elsies.

The final menu item, "Shopping," is not being shown because there were no test retail outlets at this time.

## Future Enhancements

1. Owner-defined scheduled events (transactions, alerts, etc.)
2. Owner-defined transaction reporting
3. Group accounts with individual access rights
4. VIP enforced budgets
5. Contract signing, including multiple signatories
6. Automated contract enforcement
7. Programmable applications (with AI verification)
8. AI interface
9. Cellular democracy support, including voting, local conversations, and online debates
10. Full support for Earth Dividend distribution, including programmable sovereignty rules
11. The granting of access rights to authorized persons
12. Support for exile
13. Support for access-right restrictions in sovereignties