ANASTASIA LABS

Money Kit Web UI functionality

Version 1.1 – November 2024

Contents

Web UI functionality

1. Connect Wallet

1.1. Purpose:

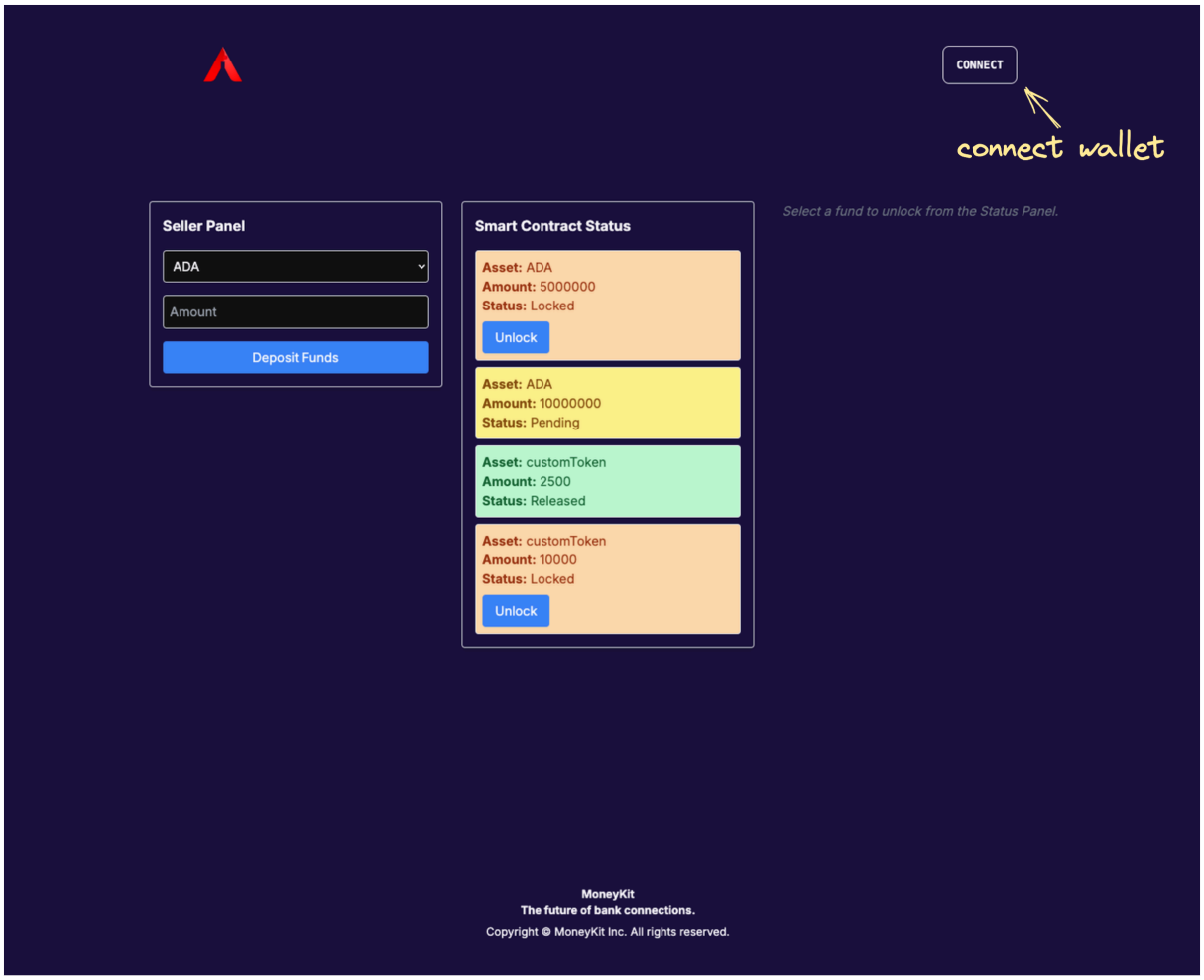
Allow users to connect their Cardano-compatible wallet (e.g., Nami, Eternl) to interact with the DApp.

1.2. Key Features:

- Detect available wallets and display options for connecting.
- Restrict connections to the correct network (Mainnet or Testnet).
- Display the connected wallet's address and network type after successful connection.

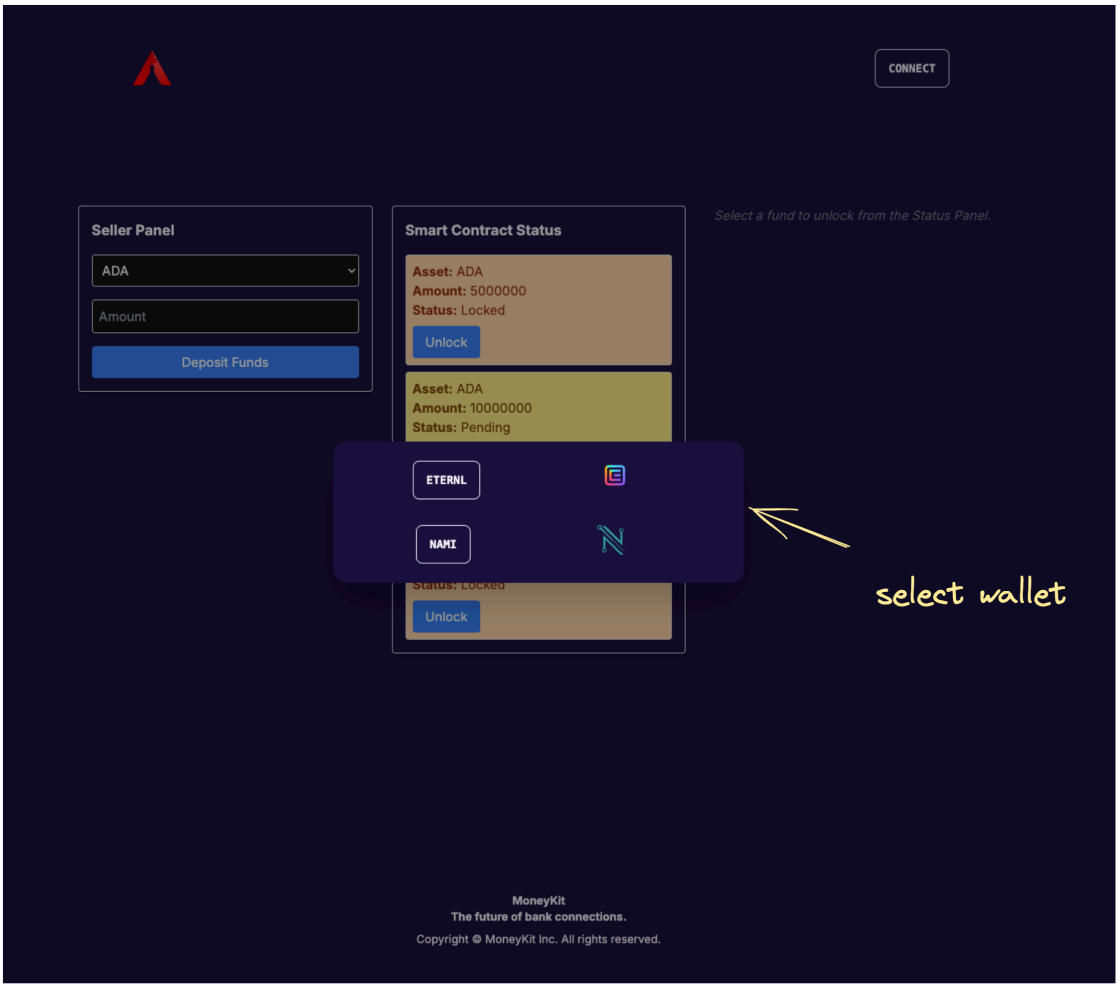
1.3. UI Workflow:

1.3.1. Display a "Connect Wallet" button.



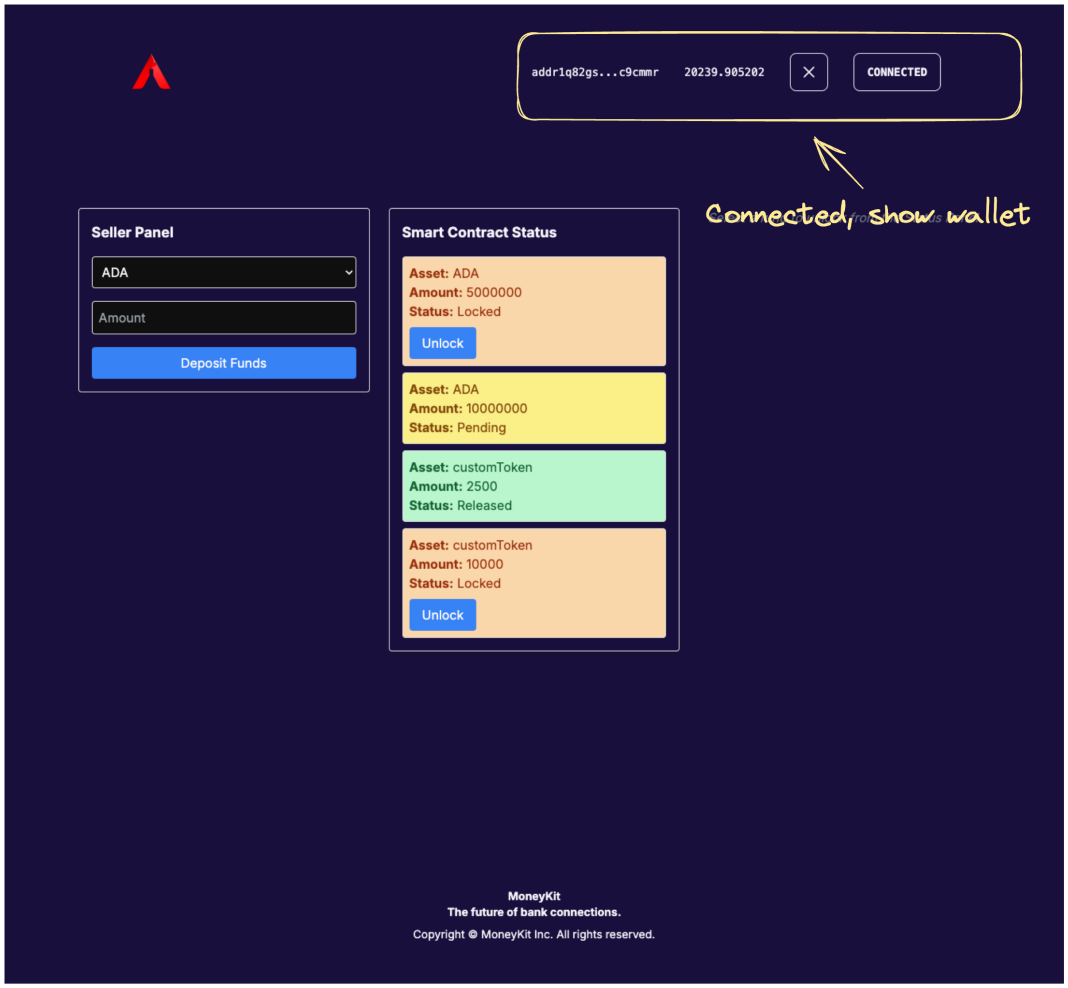
1.3.2. When clicked:

- If a compatible wallet is available, prompt the user to connect.
- If no wallet is detected, display a message guiding the user to install one.



1.3.3. After connection:

- Show the wallet address and network type.
- Maintain connection status across the UI.



2. Sell (Seller Panel)

2.1. Purpose:

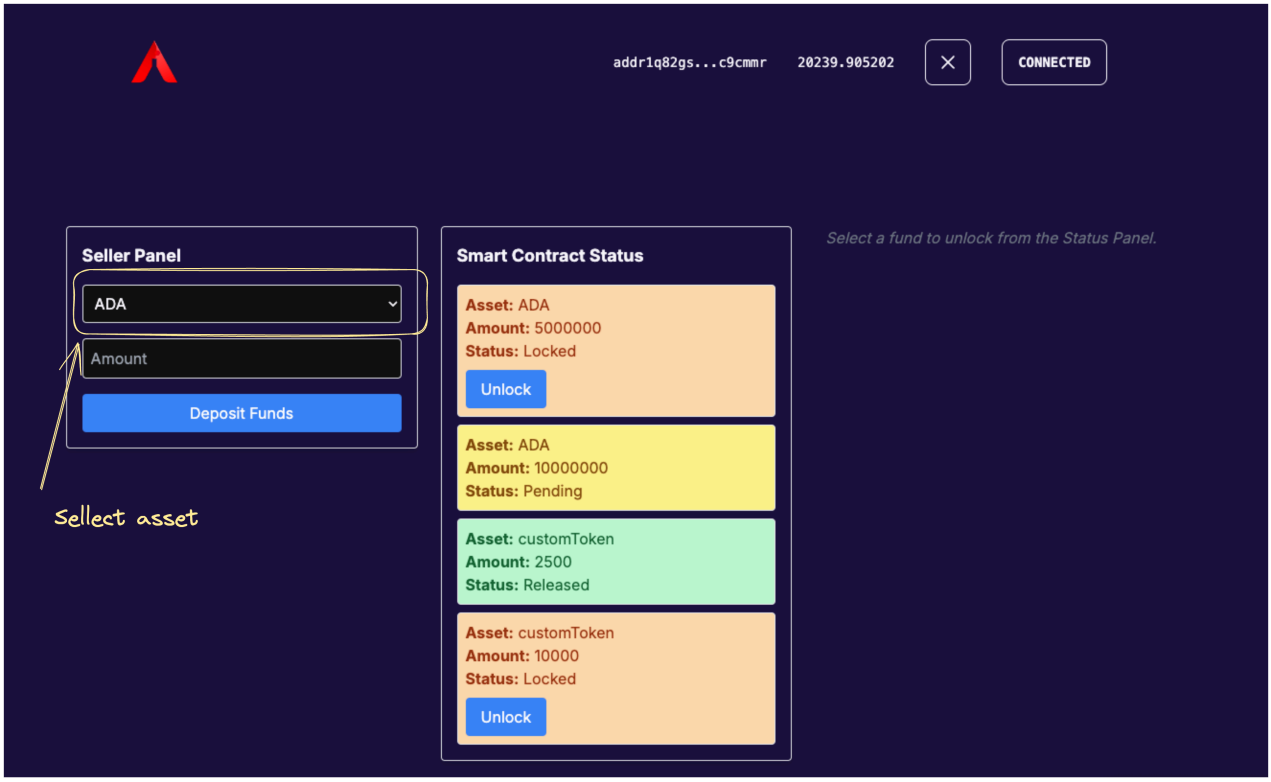
Enable sellers to deposit funds into the smart contract for selling cryptocurrency in exchange for fiat payment.

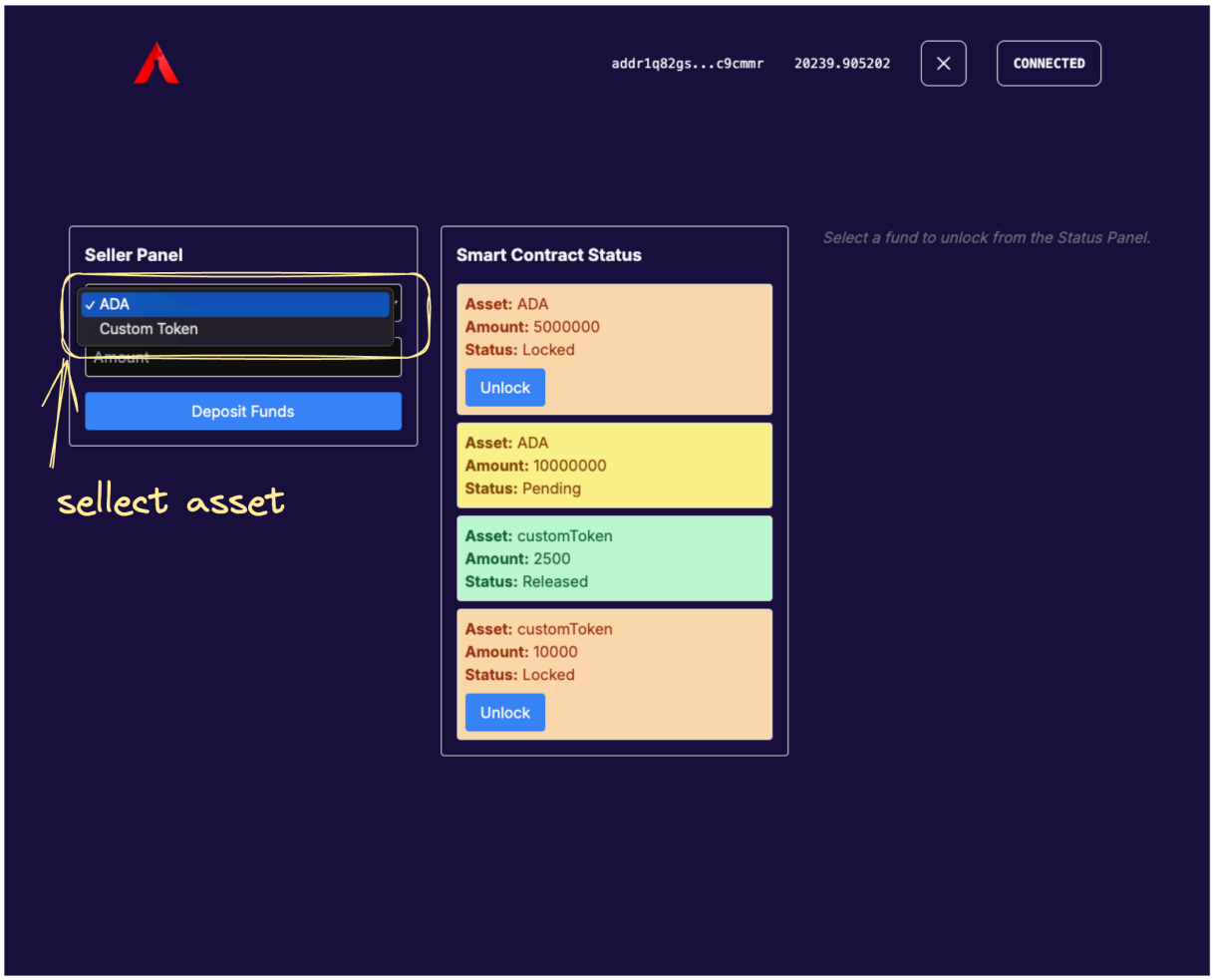
2.2. Key Features:

- Input Fields:
  - Select the type of asset to sell (e.g., ADA, custom tokens).
  - Specify the amount to sell.
- Deposit Button:
  - Trigger a transaction to lock funds in the smart contract.
- Wallet Interaction:
  - Integrate with the wallet for signing and submitting the transaction.
- Feedback:
  - Show transaction status (pending, success, or failure).

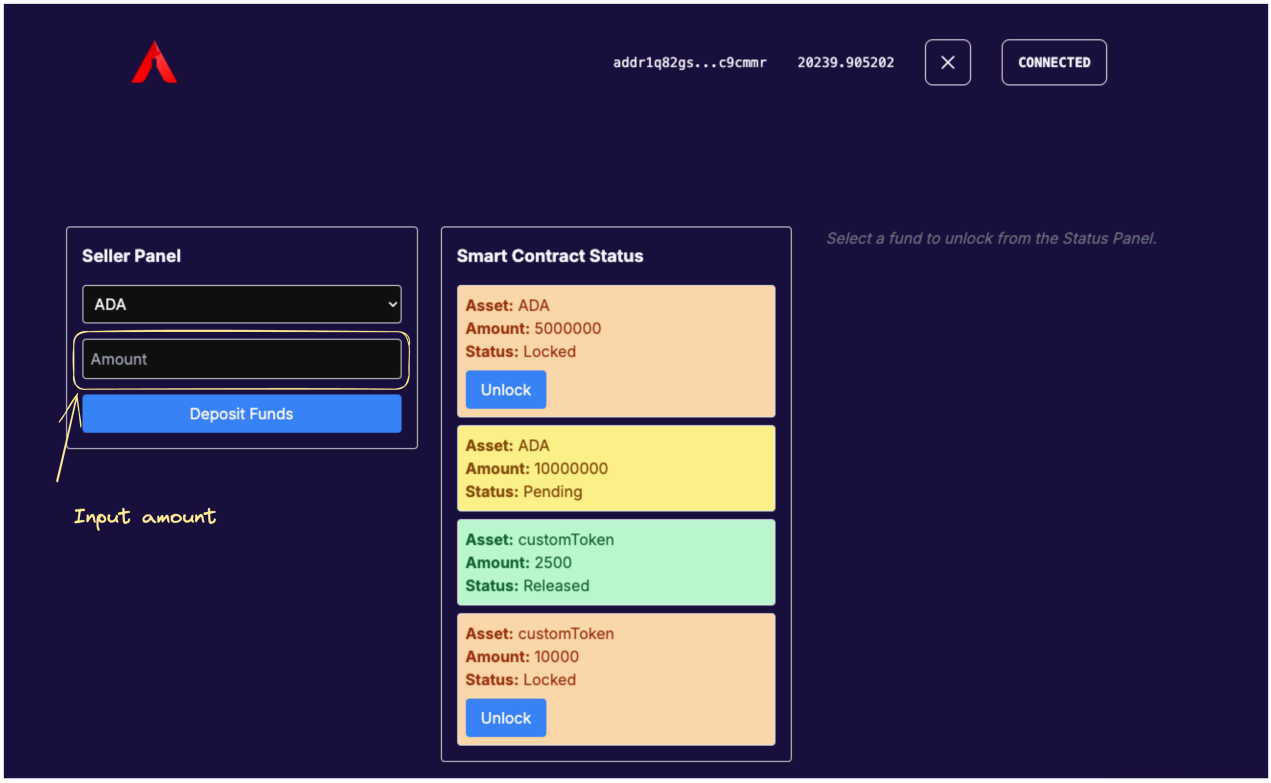
2.3. UI Workflow:

1. Input asset type (e.g., ADA or custom token).





2. Input the amount to sell.



3. Click “Deposit Funds”:

3. Transaction Status (Status Panel)

3.1. Purpose:

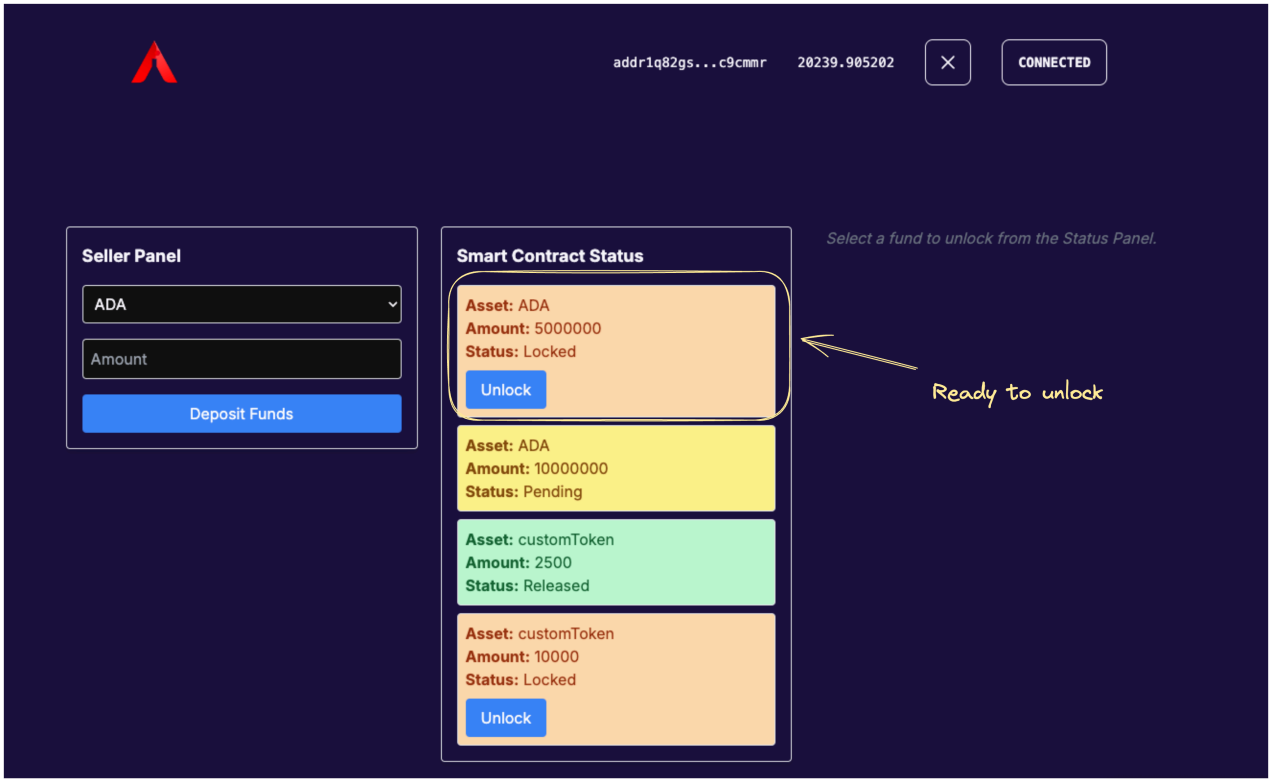
Provide an overview of all transactions, including funds currently locked, pending, or released.

3.2. Key Features:

- List of Transactions:
  - Show transaction details:
    - Asset Type
    - Amount
    - Status (e.g., Pending, Locked, Released)
- Actionable Status:
  - Include an “Unlock” button for locked transactions.
- Real-Time Updates:
  - Fetch and update transaction data periodically or on user action.

3.3. UI Workflow:

1. Display a scrollable list of transactions with these columns:
   - Asset Type
   - Amount
   - Status
2. Status-Based Actions:
   - Pending: No actions available.
   - Locked: Show an “Unlock” button to open the Buyer Panel.
   - Released: Marked as completed, no further actions.
3. Display a “No transactions yet” message if the list is empty.



4. Buy (Buyer Panel)

4.1. Purpose:

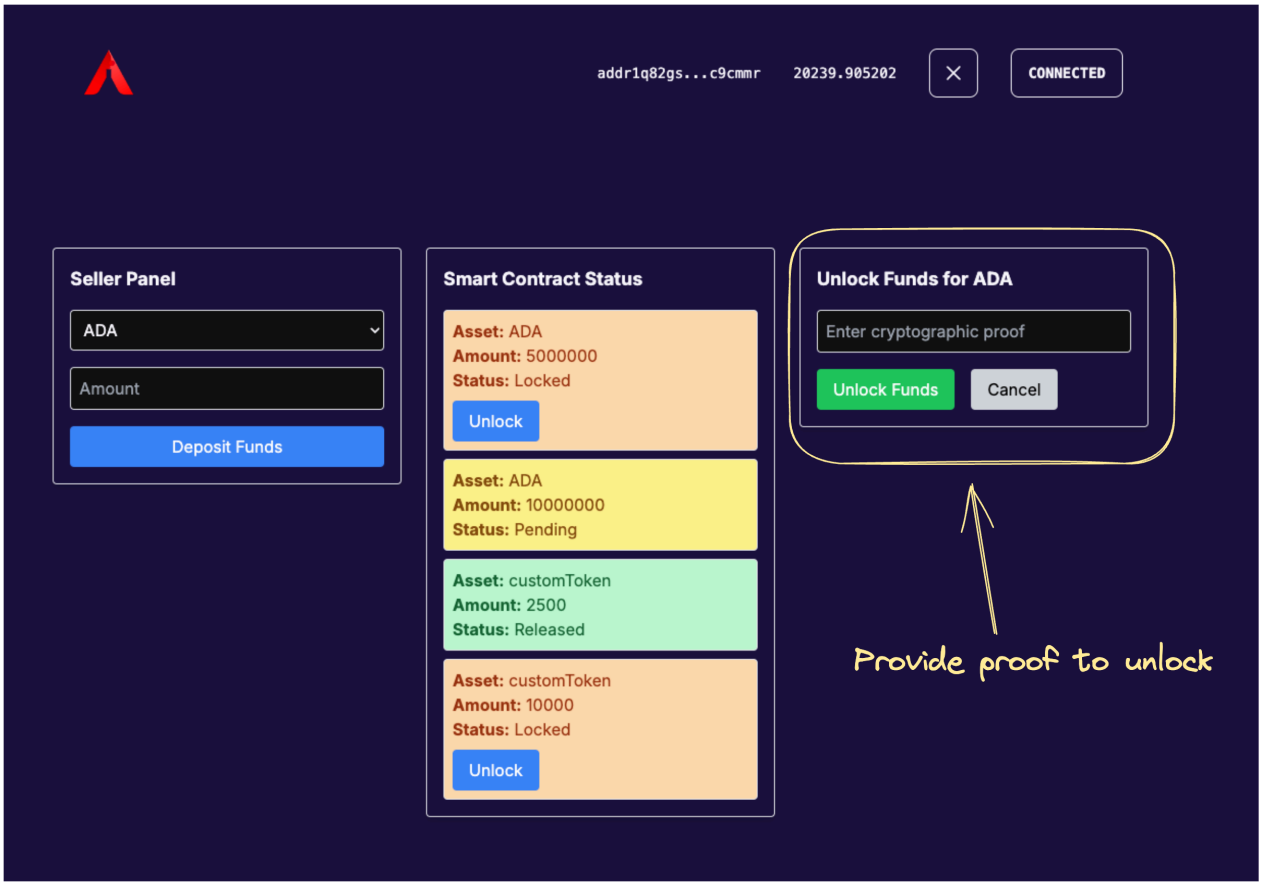
Allow buyers to provide cryptographic proof of fiat payment and unlock funds in the smart contract.

4.2. Key Features:

- Unlock Button:
  - Appears for locked transactions in the Status Panel.
  - Opens the Buyer Panel for the selected transaction.
- Proof Submission:
  - Input field to paste/upload cryptographic proof.
- Wallet Interaction:
  - Use the wallet to sign and submit proof to the smart contract.
- Feedback:
  - Display success or failure messages for the transaction.

4.3. UI Workflow:

1. Click “Unlock” for a locked transaction in the Status Panel.
2. Enter cryptographic proof in the input field.
3. Click “Unlock Funds”:
   - Wallet opens for signing and submitting proof.
   - Funds are unlocked and transferred to the buyer.
4. Display success message with transaction hash.



5. Summary of User Flows

Feature	User Action	Outcome
Connect Wallet	Click 'Connect Wallet' button.	Wallet connects, UI shows wallet address and network.
Sell (Seller Panel)	Input asset type/amount, click 'Deposit Funds'.	Funds are locked in the smart contract, status updates in the Status Panel.
Transaction Status	View transactions in Status Panel.	User sees transaction statuses and can unlock locked funds.
Buy (Buyer Panel)	Click 'Unlock', provide proof, confirm unlock.	Funds are unlocked and transferred to the buyer.

6. Technology Stack

- Frontend:
  - React.js with Next.js for fast, server-rendered UI.
  - TailwindCSS for styling.
- Backend:
  - Node.js/Express API to fetch transaction data and handle proof submissions.
- Blockchain:
  - Lucid library for Cardano wallet integration.
  - Cardano smart contract for locking and releasing funds.