Senior UI Engineer, Institutional Custody, Take Home Assignment

Overview

Please implement the UI below:

Transfer

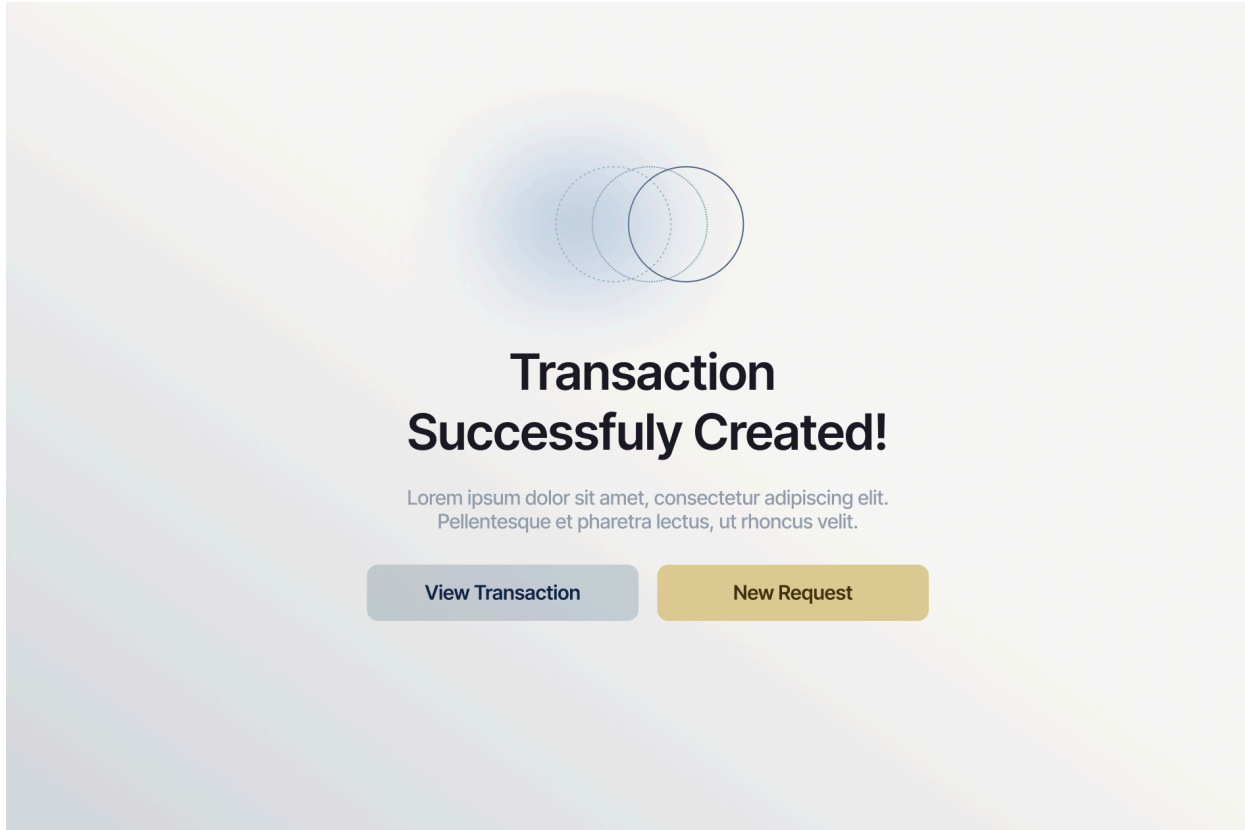|	
Asset	AVAX — Avalanche C-Chain
From	Account 3 — Aki's Test Vault
To	Aki's Test Vault — Avalanche P-Chain
Amount	0.00 AVAX MAX
	Available 18.931978602 AVAX
Fee	0.017 AVAX
Memo	Enter a memo

Start Over Submit Transfer

Please reference this [Figma file](#) for designs.

There are mock async functions to fetch data available for you in the take home skeleton.

NOTE: YOU ONLY NEED TO IMPLEMENT THE SCREENSHOTTED UI AND REQUIREMENTS STIPULATED BELOW.

Requirements

Please use the following libraries for the following functionality:
- *Components* - [Shadcn](#)
  - Use as necessary
- *Styling* - [Tailwind CSS](#)
- *Data Fetching* - [Tanstack Query](#)
- *Schemas* - [Zod](#)
  - Use as necessary, but we do expect a demonstration of proficiency with the library
- *Form State* - [Tanstack Form](#)
- *BigInt [formatting](#)/[parsing](#)* - Viem

NOTE: You're allowed to use other libraries as necessary, but you're not allowed to deviate from the stack above
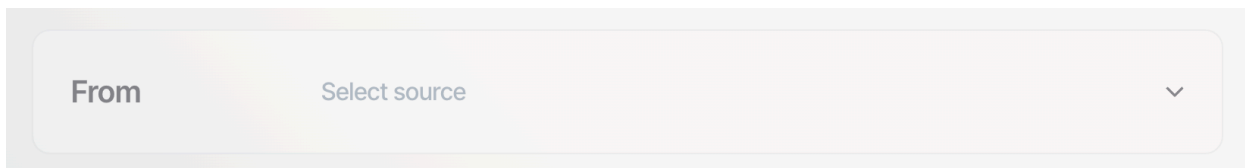
Stepper
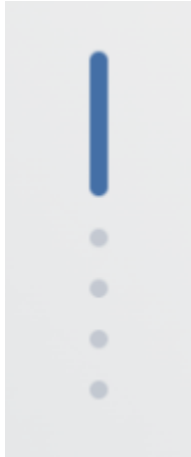
The current active step should be the last clicked field that isn't disabled.

Field UI States

The Figma file documents most of the field states, but the examples below are to fill gaps or discrepancies in the designs.
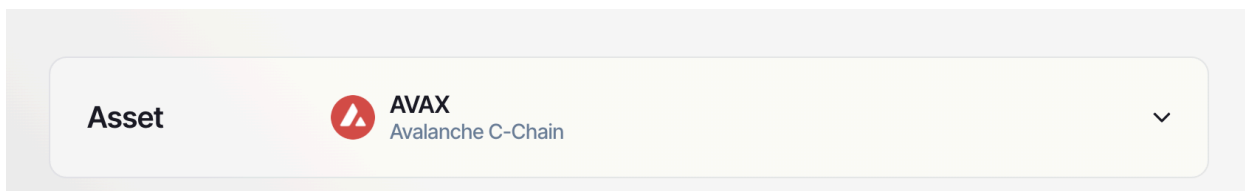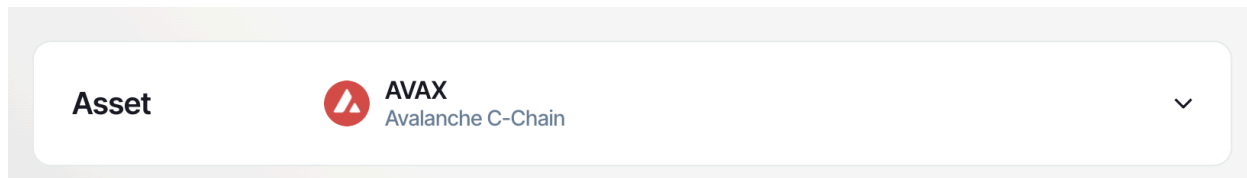
All Fields

Disabled

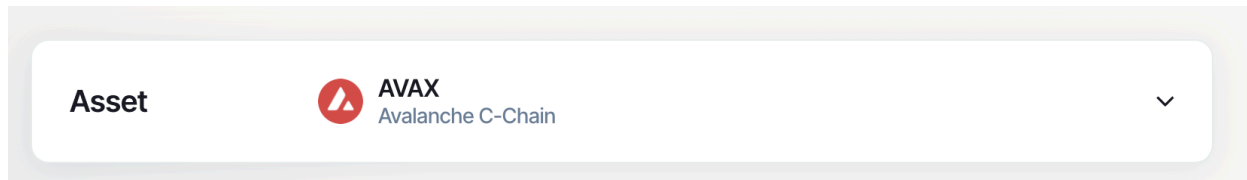If a field is disabled do not show the loading state.

Inert

On Hover

| Asset | ▲ **AVAX** Avalanche C-Chain | ⌄ |

Focus Within
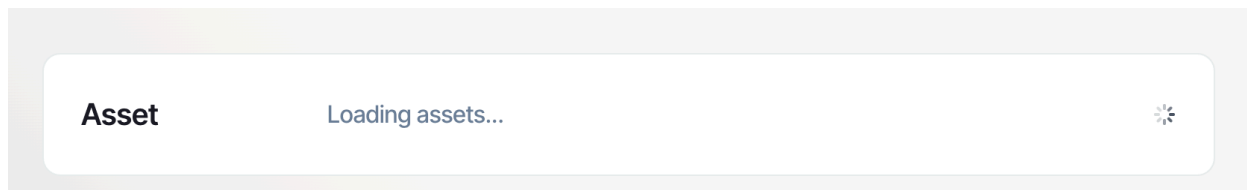
| Asset | ▲ **AVAX** Avalanche C-Chain | ⌄ |

Focus within means the interactive element within the field (button, input, etc) has been interacted with. Please note the box shadow.

NOTE: All fields are required. If any field is invalid after user interaction please show an error "<FIELD_NAME>" required
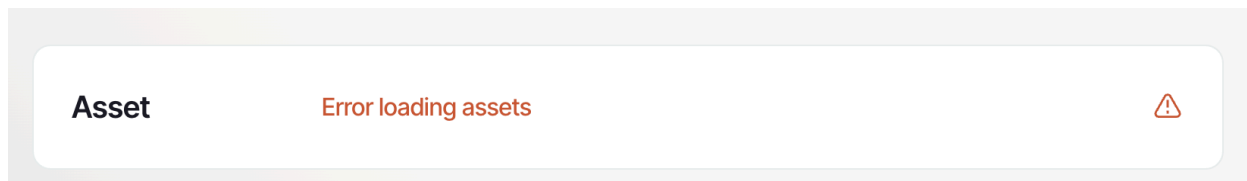
Accordion Select Fields

Loading

| Asset | Loading assets... | ⟳ |

Error

| Asset | Error loading assets | ⚠ |

NOTE: You only need to implement filtering as below. Please ignore all other filtering interfaces in the Figma file

From   Select source   ⌃

All 4   Aki's Test Vault 1   Krishna's Test Vault 1   Mike's BIP44 Vault 1

Account 0 Aki's Test Vault	37.974062606 AVAX $973.28
Account 0 Krishna's Test Vault	21.10 AVAX $540.79
Account 0 Mike's BIP44 Vault	1.60 AVAX $41.01
Account 0 Mobile Signer's Test Vault	3.999958927 AVAX $102.52

Amount Field

Loading

Amount   0.00   ⬤ AVAX   MAX

Available ⟳

Fee   ⟳

Error

Amount   0.00   ⬤ AVAX   MAX

Unable to load usable balance

Fee   1.000000001 AVAX

Amount   0.00   ⬤ AVAX   MAX

Insufficient balance for fee. Missing 0.007 AVAX

Fee   0.017 AVAX

Amount	0.00	⚠ AVAX	MAX
	Available -- AVAX		
Fee	Unable to load fee		

Other requirements

- Ensure the available balance factors in the fee
- Show "--" if either the balance or fee isn't available, and it isn't loading or there isn't an error
- Input formatting
  - Remove trailing 0s (0.00 -> 0)
  - Remove trailing "." (0. -> 0)
  - "," separated thousands places (1000 -> 1,000)
  - Ensure only 1 leading (001 -> 1, 00.1 -> 0.1)

Submission Instructions

- Please submit your completed work to a private StackBlitz shared with @iknowhtml and @mikeavax
  - Reference this documentation for how to upload a project

Closing Remarks

Please treat this assignment as a reflection of your best work, demonstrating your ability to deliver high-quality, production-ready code and documentation.

Use of AI is allowed.

Questions are encouraged. Please don't hesitate to reach out to aki.gao@avalabs.org and michael.inger@avalabs.org through email.

You have **up to 1 week** to start the assignment after receiving it.

 We look forward to reviewing your submission!