AUTHENTICATION

Our technology allows users to be reliably authenticated. The tokens used are typically cards, but this technology can be applied to other form factors like passports. The data on these cards can be validated by a secure server in a variety of ways, including anonymously to act as a CAPTCHA system.

Our standard playing card-based tokens feature large, disability-friendly text on the front and a QR code on the back. To validate it anonymously, the suit, number, and main alphanumeric characters from two cards is entered into the prompt, and the server verifies they come from the same deck, proving the request comes from a human with a deck of cards without needing to know who owns that deck. A specific registered user can be validated in much the same way using a single card since the server only needs to check the registered deck to ensure a match. Alternatively, cards can be verified using the QR code on the back which contains all the information on the face including the deck's serial number, providing an even more effective solution for blind users.

To prevent exploitation, the number of attempts will be limited, and decks or cards will also be locked out if they are used too often. Geographic validation can also be used to identify suspicious usage patterns, limiting the ability of remote attackers to exploit stolen card data without unduly impacting legitimate users on travel.