Scrambler Password

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What is Scrambler Password?

Purpose

- A different and potentially more secure method for a user to login to a website
- Users are able to sign up or login
- Users select a provided image that is then separated into 9 squares
- The movement of these squares, the scrambling, is the user's password
- 9! (362880) available password combinations
- Created for web platform environment

Tech Platform

- Front End:
  - Next.js
  - HTML
  - CSS
- Back End:
  - Next.js
  - Firebase Hosting
  - Firebase Realtime Database
  - Firebase Cloud FireStore

New User Story Board

John Clicks Sign Up

Login   Sign Up

John fills in his information

Name: _____
Username: _____

Sign Up

John Selects an Image

Select

John Scrambles the Image

1	2	3
4	5	6
7	8	9

→

9	2	1
4	7	6
8	5	3

Set Password

John Successfully Creates an Account

Account Creation Successful.

Existing User Story Board

John Clicks Login

Login   Sign Up
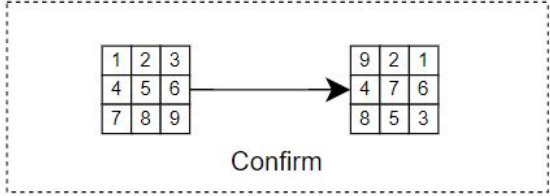
John enters his Username

Username: _____

Login

John Scrambles the Image

1	2	3
4	5	6
7	8	9

→

9	2	1
4	7	6
8	5	3

Confirm

John is prompted to retry Scrambler

Error: Retry

1	2	3
4	5	6
7	8	9

→

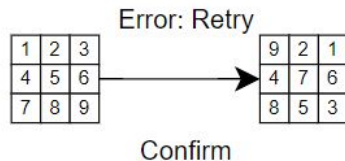| 9 | 2 | 1 |
| 4 | 7 | 6 |
| 8 | 5 | 3 |

Confirm

John Successfully Logs in

Welcome, John.