



AUTHORS

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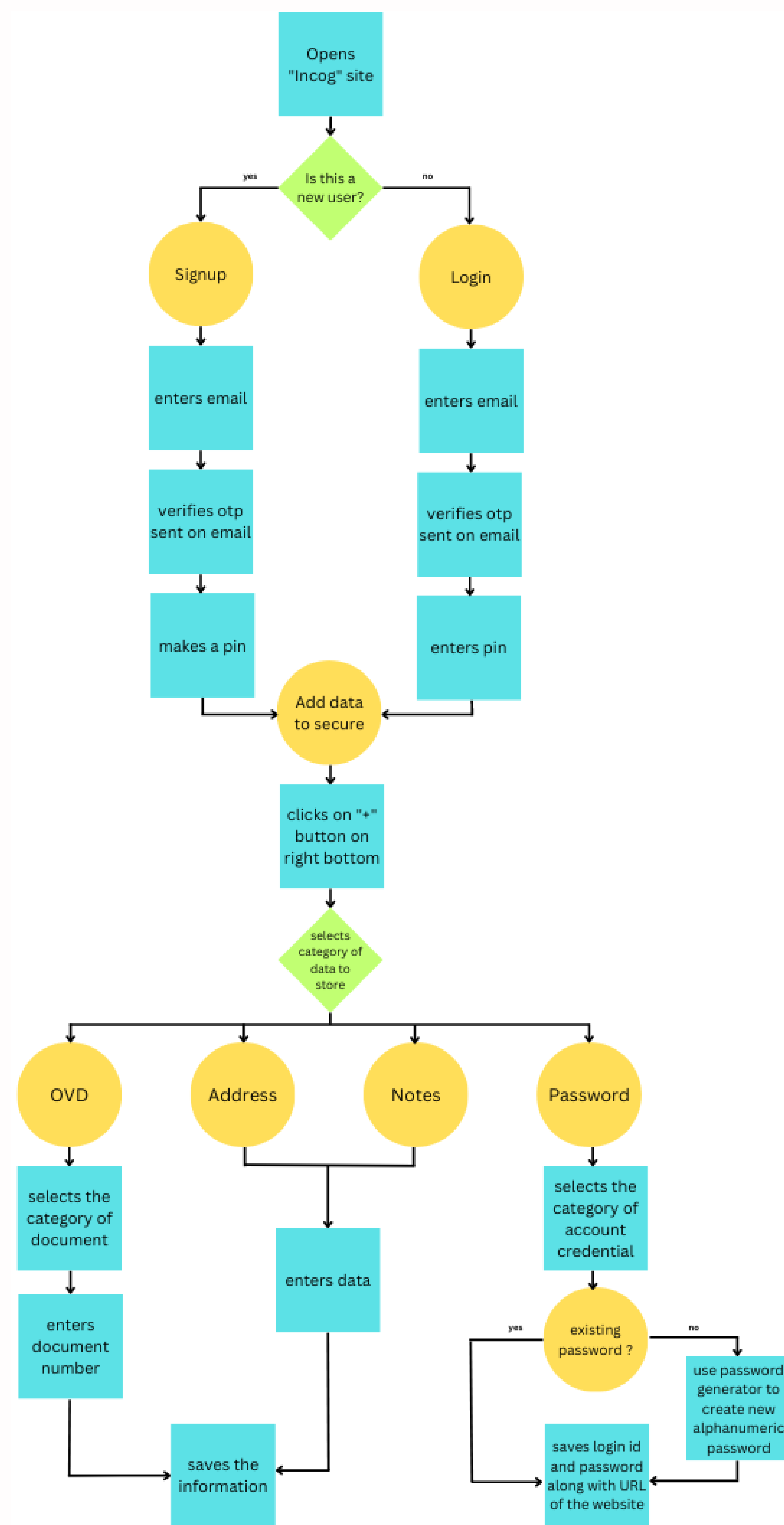
INCOGSAFE

COURSE

Usable Security and Privacy
(Team Project)
Team Name: Incog

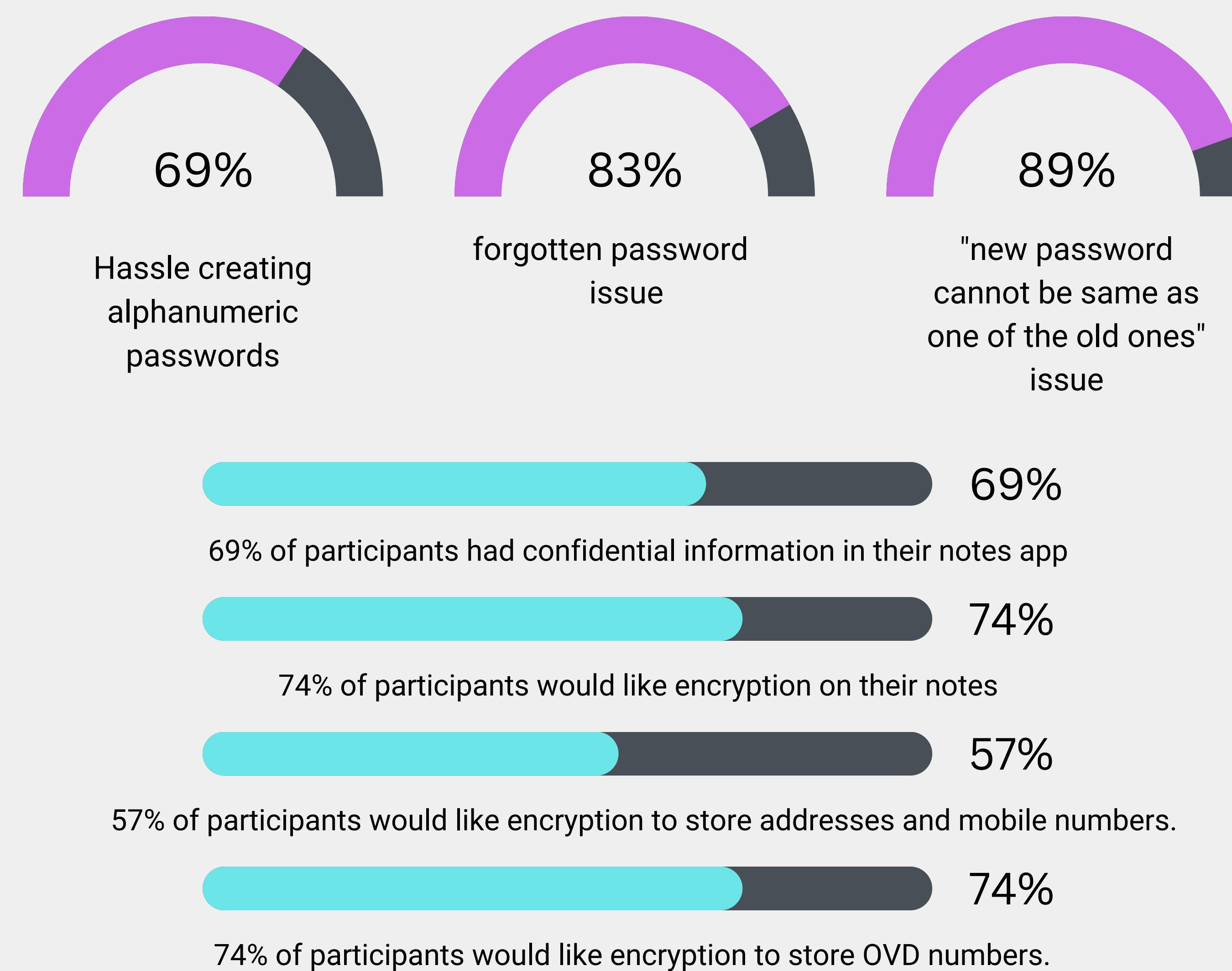
IncogSafe - a password manager designed to store and manage confidential information.
The application will use encryption algorithms to protect the information stored in the system, ensuring that only authorized users can access them.

WORKFLOW



PRIMARY RESEARCH

Online Survey



SECONDARY RESEARCH

Literature Review and Competitor Analysis

The three papers we reviewed for our literature review were:

- "Usability, security, and trust in password managers: A quest for user-centric properties and features"
- The Factors Influencing the Use of Password Managers by Hussain Alshahrani
- "It Basically Started Using Me:" An Observational Study of Password Manager Usage by Sean Oesch, Scott Routi, James Simmons, and Anuj Gautam

Summarising the findings of these papers we concluded that password managers can increase password security and facilitate users' password management. Password managers need to be more effective, but there are still usability and user behavior issues that need to be resolved.

| Competitor's Analysis | 1Password | Dashlane |
|-----------------------|---------------------|----------|
| Two-factor login | ✓ | ✗ |
| OVD number security | ✓ | ✓ |
| Notes security | ✓ | ✓ |
| Login type | Password secret key | Password |

DESIGN THEMES

Color Pallette



Blue is often associated with **trust, reliability, and security**. This can help instill confidence in users that their sensitive information is being stored and managed securely.

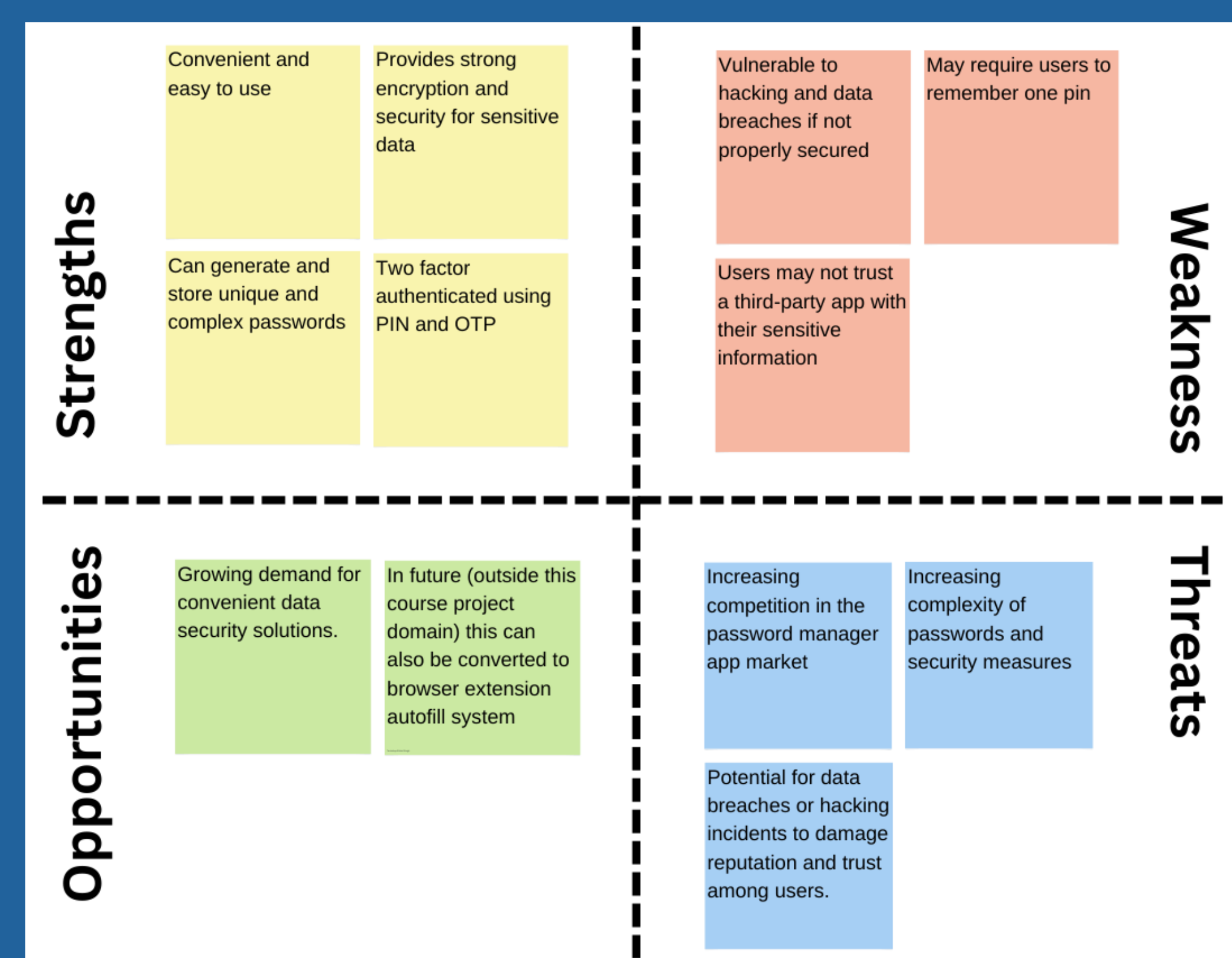
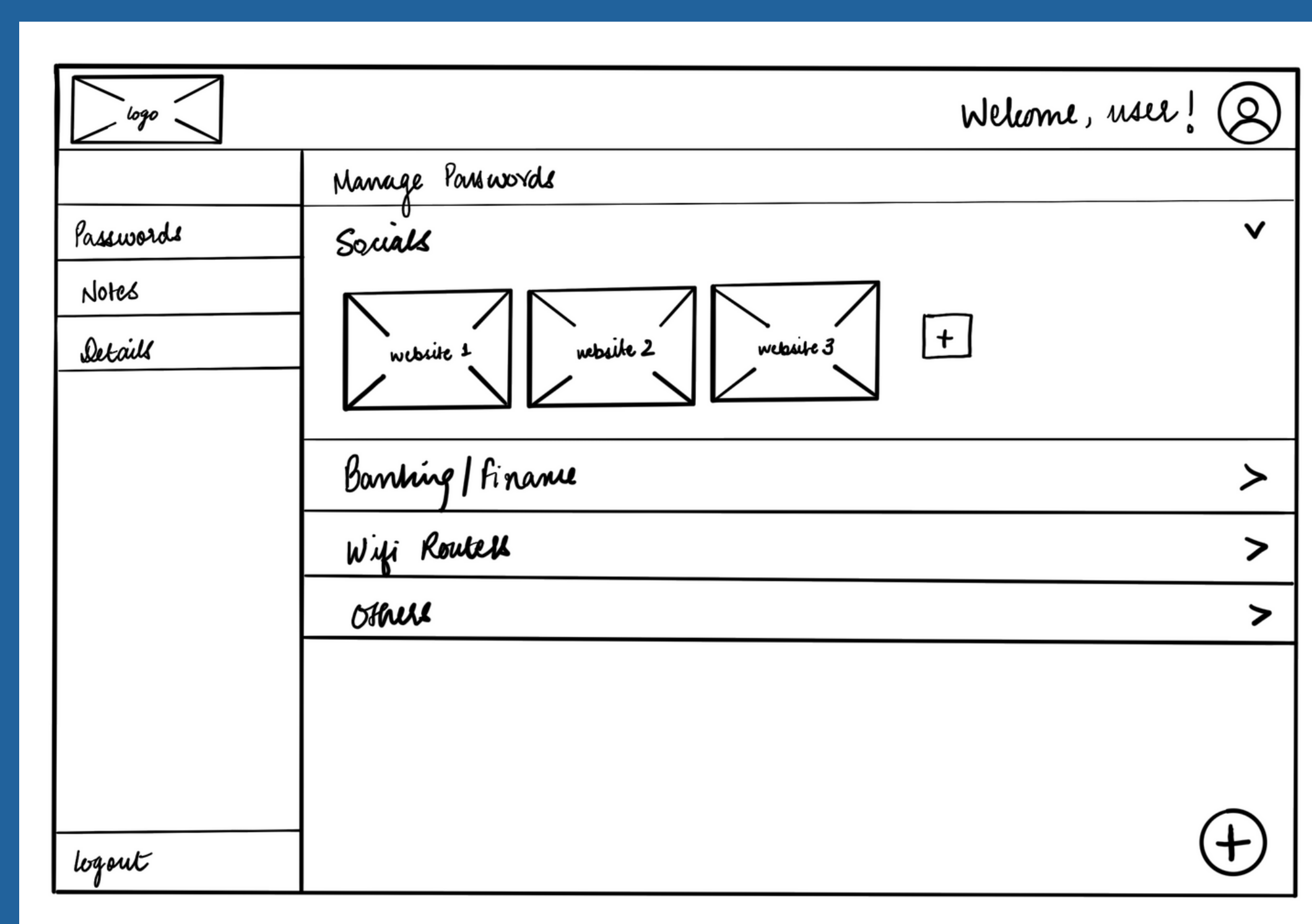
Blue is also known to have a **calming effect**, which can help reduce the anxiety or stress that users may feel when managing their passwords. We chose to keep shades of blue on our website interface to **promote consistency** across the interface.

We went with a white or light background rather than dark, as white promotes **positivity, cleanliness** and also **clarity** which is essential when it comes to handling sensitive information.

ROBOTO font

We choose sans-serif font as they offer better **readability, simplicity, and consistency** with other web standards. They are easy to read on screen and have a **clean and modern look**. Roboto is a Google font that was specifically designed for digital interfaces. It has a simple and clean look and is optimized for readability on screens.

LOFI PROTOTYPE



References

<https://www.sciencedirect.com/science/article/abs/pii/S1574013718302533>
<https://journals.naust.edu.sa/index.php/JISCR/article/view/1939>
<https://dl.acm.org/doi/10.1145/3491102.3517534>



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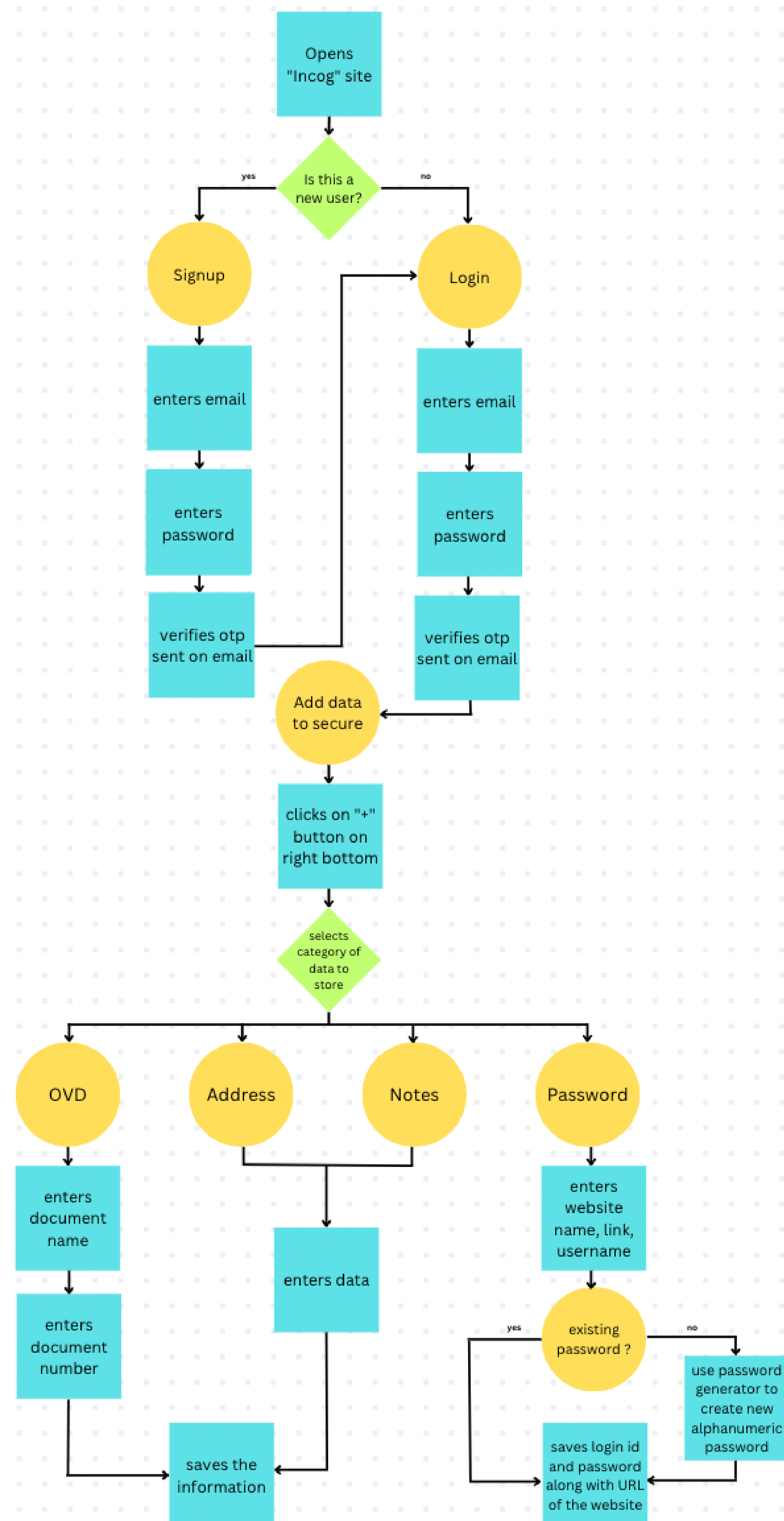
COURSE

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WORKFLOW



SECURITY

OTP Based login:

- The One time numeric password is sent on the users registered email ID.
- The numeric password for verification is only valid for 2 minutes.
- Verification is always needed after login.

TLS/SSL certificate:

- TLS/SSL certificates are used to establish a secure and encrypted connection between a web server and a web browser, ensuring that the data transmitted between them is protected from interception and tampering.

FEATURES

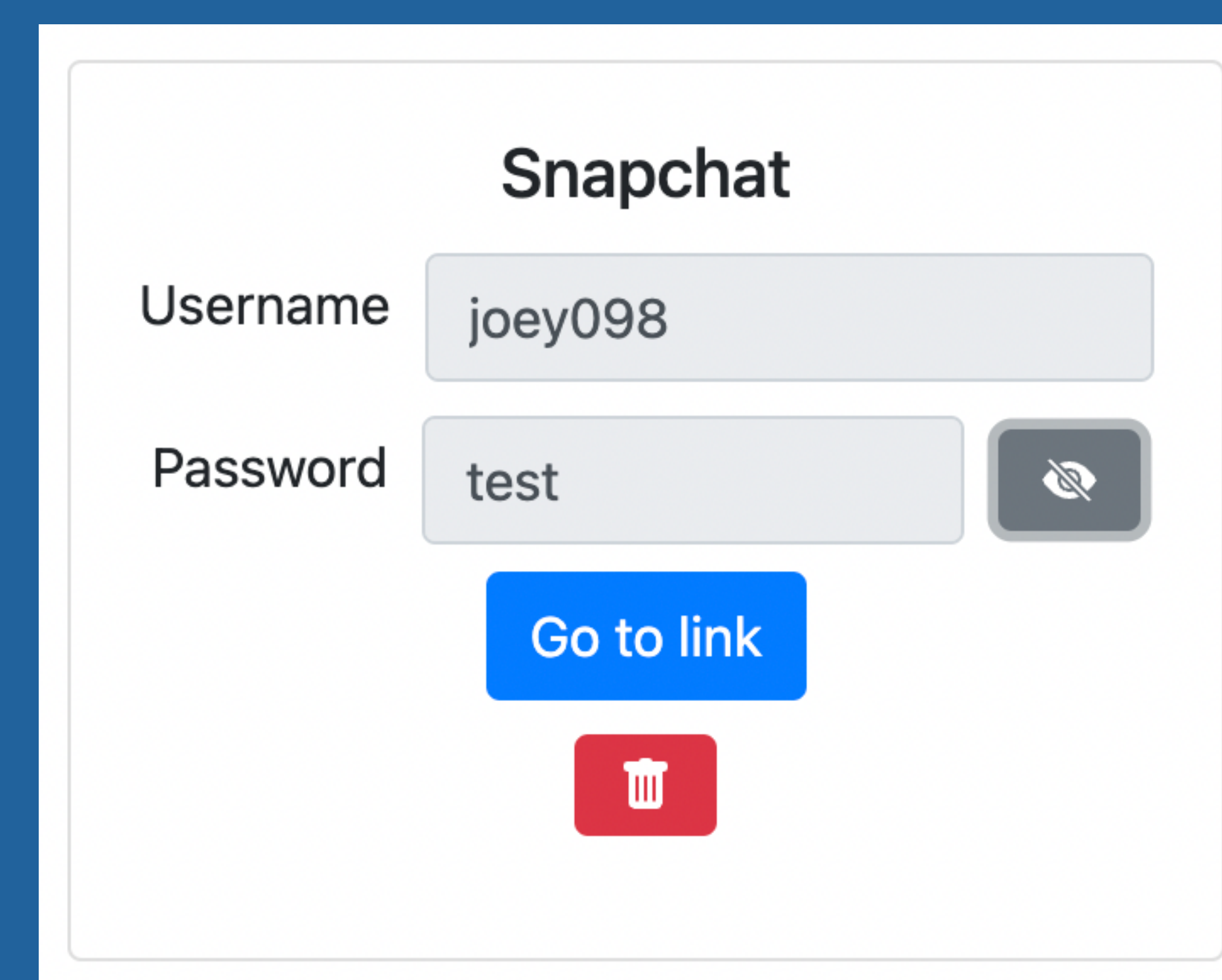
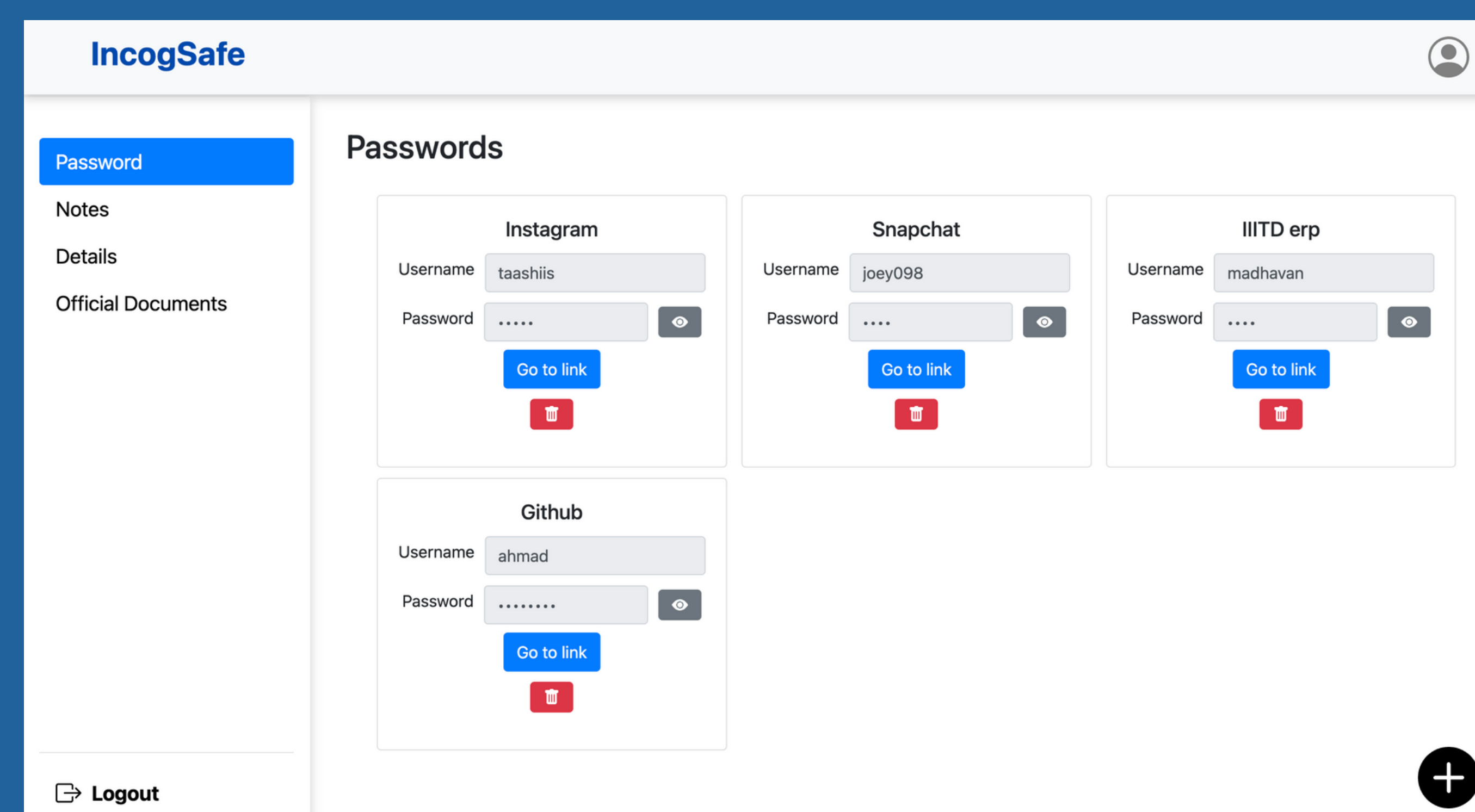
User session :

- Once the user logs in, a timer starts which tracks the user's session.
- This timer has a time limit of 15 mins.
- After 15 mins, the user is automatically logged out.

To avoid request attacks:

- User is limited to only 100 requests in one hour

HI-FI PROTOTYPE - FINAL UI



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