

Internet and Web Systems-1

PROJECT REPORT - 8
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Milestones Completed:

- Completed the chrome extension
- Completed the building process for the chrome extension
- Integrated SJCL crypto library for the encryption of the password.

Next task:

- Starting to create the website for the same chrome extension's functionality.
- Planning to deploy the same application in Containers/ Dockers

Problem Faced

- Major problem faced is find the right crypto algorithm for the hashing method.
- The next major problem faced was integrating the crypto algorithm into the content_script.js. For some reason the crypto algorithm was not working along with the script.

How I solved the problems?

- I found a crypto algorithm from stand ford javascript crypto library which was creating the hash of the string. I found it simple to implement for the website too instead of choosing the other crypto algorithms.
- I figured out the reason why my entire chrome extension was breaking because I made a silly error of not adding the crypto library in my popup.html. I didn't load the required JavaScript into it. Then I figured it out and repaired the changes.

References:

1. <https://stackoverflow.com/questions/22090255/how-to-store-a-password-as-securely-in-chrome-extension>
2. <https://crypto.stanford.edu/sjcl/>
3. <https://stackoverflow.com/questions/10737123/how-to-host-a-chrome-extension>
4. <https://developer.chrome.com/apps/hosting>