Internet and Web Systems-1

PROJECT REPORT - 6

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Working on:
- Planning to create a chrome extension and also a website for the password management.
- It is going to be totally secure because the decoding is going to be fully on the UI side and there is no back-end data base or a server to save these values/passwords.
- Currently working on the chrome extension (which is kind of new for me since I have never worked on developing or publishing a chrome extension)

Addressing on cross-platform problem: *If there is a chrome extension to autofill the passwords and also the same is available also in a website, then anyone on the go, who knows the url of the website can just go ahead and decode their password. There will be no need to depend on any mobile app, or a software to manage the passwords.*

Mile Stone Completed
- Created a skeleton html page for the chrome extension
- Added required styles for the chrome extension
- Updated Jquery for the chrome extension

Problem Faced
- Finding an algorithm, which should be difficult to backtrack.
- Making a chrome extension auto fill the password id in the html page.
- What if someone see the encrypted password and try to do a dictionary attack to find the master key? Need to address on this problem.
- What if the website hosted for this password management is compromised. What if the algorithm is compromised? How to make sure the password will be secret.

References:
1. https://www.movable-type.co.uk/scripts/sha256.html
2. https://www.sitepoint.com/create-chrome-extension-10-minutes-flat/
3. https://medium.freecodecamp.org/how-to-create-and-publish-a-chrome-extension-in-20-minutes-6dc8395d7153
4. https://robots.thoughtbot.com/how-to-make-a-chrome-extension