**Encryption Page**

**Main Goal**

* Running of encryption and decryption (Backend)
* Teaching of users of encryption and decryption
* Hands on experience with encryption, decryption, and hashing (Frontend)
* (Add on: Test on user knowledge)

1. Running of encryption, decryption, and hashing (Backend)

Encryption Techniques Used

Low Level

1. ROT13
2. Caesar Cipher
3. Vigenère Cipher
4. Playfair Cipher
5. [can add on]

High Level

1. RSA
2. AES
3. Triple DES
4. Vera Crypt
5. Blowfish (Addon)

Hashing

1. MD5
2. SHA
3. HASH MAC
4. File Hashing
5. (can add on)

2. Teaching of users of encryption and decryption

Theory

Teaching about each encryption and its functionalities (Do not delve into technical side, like math)

* Encryption Origin
* Why was this encryption invented
* What / Why this encryption is unique

Application of encryption in real life scenarios.

Covering the How of the encryption (High level)\_

(Addon: External links to high level encryptions that are too complex to explain to users in a reasonable time)

3. Hands on experience with encryption, decryption, and hashing

* Visualization of encryption
* Step by step process of how the information is encrypted and how a key is formed
* How the information is then decrypted

(Addon: Other activities if can think of one)