

Decryptoid (Normal)

Due Sunday by 11:59pm **Points** 25 **Submitting** a text entry box or a file upload

Available until May 18 at 11:59pm

Your web application lets the users encrypt and decrypt texts in input (from an input box or a file). The user can select from a list of ciphers and specify if it needs encryption or decryption.

- It would be very cool to implement a logic able to detect the cipher used to encrypt a text in input, without let the user specify it (this would make the project "Incredibly Intense", though).

You will have to:

Build a web page that:

- Ensures a secure Session mechanism.
- Allows the user to sign up and log in.
- Allows the user to submit a text file (extension .txt ONLY).
- Allows the user to submit text in an input text box.
- Allows the user to select a cipher from a list and if the input should be encrypted or decrypted.

Build a web application that:

- Reads the file in input and the cipher selected, then applies this cipher (encryption or decryption, based on the user's input).
- Reads the text from the input text box, if any, and the cipher selected, then applies this cipher (encryption or decryption, based on the user's input)
- Implements these ciphers (you cannot use libraries):
 - Simple Substitution
 - Double Transposition
 - RC4

Build a MySQL database that:

- Stores the input texts from that specific user (if logged in), the cipher used and the timestamp at the moment of the creation of the record.
- Stores the information related to the user accounts (username, password and email) in the most secure way of your knowledge.
 - All these fields must be validated:

- The username can contain English letters (capitalized or not), digits, and the characters '_' (underscore) and '-' (dash). Nothing else.
- The email must be well formatted.
- The password can have limitations of your choice, if you think it's worth it.

If your group is formed by two or three people, you have to add these requirements:

- Your web application should implement also the DES cipher.

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