# **Password Manager**

**Encryption:**

For encryption of user’s username and password for website I am using this function. It is located in password.js file.

  const encrypt = (text) => {

    const passphrase = 'qwertyuiop';

    return CryptoJS.AES.encrypt(text, passphrase).toString();

  };

When user will add a new password, by using this function code will convert user’s username and password in to encrypted string so no one can steal username and password from the database.

**Decryption:**

When user will visits passwords page we will show decrypted passwords so he/she can access them.

  const decrypt = (ciphertext) => {

    const passphrase = 'qwertyuiop';

    const bytes = CryptoJS.AES.decrypt(ciphertext, passphrase);

    const originalText = bytes.toString(CryptoJS.enc.Utf8);

    return originalText;

  };

This is the function used to decrypt password.

In both these functions I am using passphrase ‘qwertyuiop’ to encrypt and decrypt password. You can change this to any string to make it stronger. Without this string no one can decrypt your username and password from db.