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**Develop web Application which will help the user to authenticate application and Encrypted Messaging**

**CODE : encrypt.js**

const crypto = require('crypto');

const algorithm = 'aes-256-cbc';

const key = crypto.randomBytes(32);

const iv = crypto.randomBytes(16);

function encrypt(text)

{

let cipher = crypto.createCipheriv('aes-256-cbc', Buffer.from(key), iv);

let encrypted = cipher.update(text);

encrypted = Buffer.concat([encrypted, cipher.final()]);

return { iv: iv.toString('hex'), encryptedData: encrypted.toString('hex') };

}

function decrypt(text)

{

let iv = Buffer.from(text.iv, 'hex');

let encryptedText = Buffer.from(text.encryptedData, 'hex');

let decipher = crypto.createDecipheriv('aes-256-cbc', Buffer.from(key), iv);

let decrypted = decipher.update(encryptedText);

decrypted = Buffer.concat([decrypted, decipher.final()]);

return decrypted.toString();

}

var hw = encrypt("Encryption Done")

console.log(hw)

console.log(decrypt(hw))

**OUTPUT:**

