PARTH KANNOJIYA TASK 3 IMAGE ENCRYPTION

Html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Image Encryption/Decryption</title>

<link rel="stylesheet" href="styles.css">

<script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/4.0.0/crypto-js.min.js"></script>

</head>

<body>

<div class="container">

<h2>Image Encryption/Decryption</h2>

<input type="file" id="fileInput">

<div class="buttons">

<button onclick="encryptImage()">Encrypt</button>

<button onclick="decryptImage()">Decrypt</button>

</div>

<div class="output">

<h3>Result:</h3>

<img id="outputImage" alt="Output Image">

</div>

</div>

<script src="script.js"></script>

</body>

</html>

Css-

body {

font-family: Arial, sans-serif;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

background-color: #f0f0f0;

}

.container {

background-color: #fff;

padding: 20px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

text-align: center;

width: 80%;

max-width: 600px;

}

h2 {

margin-top: 0;

}

.buttons {

margin-top: 20px;

}

.buttons button {

padding: 10px 20px;

font-size: 16px;

cursor: pointer;

margin: 0 10px;

}

.output {

margin-top: 20px;

}

.output h3 {

margin-bottom: 10px;

}

#outputImage {

max-width: 100%;

display: none; /\* Initially hide the output image \*/

}

Jscaripy

function encryptImage() {

var fileInput = document.getElementById('fileInput');

var file = fileInput.files[0];

if (!file) {

alert('Please select an image file.');

return;

}

var reader = new FileReader();

reader.onload = function(e) {

var imageData = e.target.result;

var encryptedData = CryptoJS.AES.encrypt(imageData, "secret key").toString();

displayImage("data:image/jpeg;base64," + encryptedData);

};

reader.readAsDataURL(file);

}

function decryptImage() {

var fileInput = document.getElementById('fileInput');

var file = fileInput.files[0];

if (!file) {

alert('Please select an image file.');

return;

}

var reader = new FileReader();

reader.onload = function(e) {

var encryptedImageData = e.target.result.split(',')[1]; // Remove data:image/jpeg;base64

var decryptedData = CryptoJS.AES.decrypt(encryptedImageData, "secret key").toString(CryptoJS.enc.Utf8);

displayImage(decryptedData);

};

reader.readAsDataURL(file);

}

function displayImage(imageData) {

var outputImage = document.getElementById('outputImage');

outputImage.src = imageData;

outputImage.style.display = 'block'; // Show the output image

}