**FRONT END REACT:**

// Login.js (React Component)

import React, { useState } from 'react';

const Login = () => {

const [username, setUsername] = useState('');

const [password, setPassword] = useState('');

const handleLogin = async (e) => {

e.preventDefault();

try {

const response = await fetch('http://localhost:5000/login', {

method: 'POST',

headers: { 'Content-Type': 'application/json' },

body: JSON.stringify({ username, password })

})

const data = await response.json();

console.log(data);

// Handle success or error response from API

} catch (error) {

console.error('Error:', error);

}

};

return (

<div>

<h2>Login</h2>

<form onSubmit={handleLogin}>

<input type="text" placeholder="Username" value={username} onChange={(e) => setUsername(e.target.value)} />

<input type="password" placeholder="Password" value={password} onChange={(e) => setPassword(e.target.value)} />

<button type="submit">Login</button>

</form>

</div>

);

};

export default Login;

**BACK END FLASK API :**

# app.py (Flask API)

from flask import Flask, request, jsonify

app = Flask(\_\_name\_\_)

# Example user database

users = {'user1': {'password': 'password1'}, 'user2': {'password': 'password2'}}

@app.route('/login', methods=['POST'])

def login():

data = request.get\_json()

username = data.get('username')

password = data.get('password')

if username in users and users[username]['password'] == password:

return jsonify({'success': True, 'message': 'Login successful'})

else:

return jsonify({'success': False, 'message': 'Invalid username or password'})

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)