**🟨 1️⃣ index.html**

This is your **frontend** (the yellow login page):

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Minimal Login</title>

<script src="https://cdn.tailwindcss.com"></script>

<style>

@import url('https://fonts.googleapis.com/css2?family=Inter:wght@400;600;700&display=swap');

body {

font-family: 'Inter', sans-serif;

background-color: #FFFC00;

min-height: 100vh;

display: flex;

align-items: center;

justify-content: center;

padding: 1rem;

}

.message-box-hidden {

display: none;

}

</style>

</head>

<body>

<div id="login-card" class="bg-white p-6 md:p-10 rounded-3xl shadow-2xl max-w-sm w-full transition-all duration-300">

<h1 class="text-xl font-bold text-center text-gray-800 mt-4 mb-8">Log In to Your Account</h1>

<form id="login-form">

<input type="text" id="username" placeholder="Username or Email" required

class="w-full p-4 mb-4 text-lg bg-gray-100 border-none focus:ring-2 focus:ring-yellow-400 focus:outline-none rounded-xl transition-colors duration-200 placeholder-gray-500">

<input type="password" id="password" placeholder="Password" required

class="w-full p-4 mb-6 text-lg bg-gray-100 border-none focus:ring-2 focus:ring-yellow-400 focus:outline-none rounded-xl transition-colors duration-200 placeholder-gray-500">

<button type="submit" id="login-button"

class="w-full py-3 bg-black text-white font-semibold text-xl rounded-full shadow-lg hover:bg-gray-800 transition-all duration-300 transform hover:scale-[1.02] active:scale-[0.98] disabled:opacity-60 disabled:cursor-not-allowed">

Log In

</button>

</form>

<div id="message-box"

class="message-box-hidden mt-6 p-3 text-sm text-center rounded-lg transition-opacity duration-300 opacity-0"

role="alert"></div>

</div>

<script>

const API\_BASE\_URL = 'https://your-app-name.onrender.com'; // 🔹 Update this later after deploying

const loginForm = document.getElementById('login-form');

const loginButton = document.getElementById('login-button');

const messageBox = document.getElementById('message-box');

async function fetchWithRetry(url, options, maxRetries = 3) {

for (let i = 0; i < maxRetries; i++) {

try {

const response = await fetch(url, options);

if (response.ok) return response;

} catch (error) {

if (i === maxRetries - 1) throw new Error(`Failed to reach server after ${maxRetries} attempts.`);

await new Promise(resolve => setTimeout(resolve, 1000 \* Math.pow(2, i)));

}

}

}

function displayMessage(text, isError) {

messageBox.textContent = text;

messageBox.classList.remove('message-box-hidden', 'opacity-0', 'bg-red-100', 'text-red-700', 'bg-green-100', 'text-green-700');

messageBox.classList.add(isError ? 'bg-red-100' : 'bg-green-100', isError ? 'text-red-700' : 'text-green-700', 'opacity-100');

setTimeout(() => {

messageBox.classList.add('opacity-0');

setTimeout(() => messageBox.classList.add('message-box-hidden'), 300);

}, 5000);

}

loginForm.addEventListener('submit', async (e) => {

e.preventDefault();

const username = document.getElementById('username').value;

const password = document.getElementById('password').value;

loginButton.disabled = true;

loginButton.textContent = 'Logging In...';

try {

const response = await fetchWithRetry(`${API\_BASE\_URL}/login`, {

method: 'POST',

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

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

});

const data = await response.json();

if (response.ok) displayMessage(`Success! Welcome back, ${data.received?.username || username}.`, false);

else displayMessage(data.message || 'Login failed. Please check your credentials.', true);

} catch (error) {

console.error("Fetch Error:", error);

displayMessage(error.message || 'Connection Error: Could not reach the server.', true);

} finally {

loginButton.disabled = false;

loginButton.textContent = 'Log In';

}

});

</script>

</body>

</html>

**🟩 2️⃣ server.js**

Your Node.js server (the same one you ran in PowerShell):

const express = require('express');

const cors = require('cors');

const app = express();

app.use(cors());

app.use(express.json());

app.post('/login', (req, res) => {

console.log('✅ Received data:', req.body);

res.json({ message: 'Login successful!', received: req.body });

});

app.listen(3000, () => console.log('🚀 Server running at http://localhost:3000'));

**🟦 3️⃣ package.json**

This file tells Render/GitHub what to install and how to start the app:

{

"name": "login-app",

"version": "1.0.0",

"description": "Simple Node.js login app with frontend",

"main": "server.js",

"scripts": {

"start": "node server.js"

},

"dependencies": {

"cors": "^2.8.5",

"express": "^4.18.2"

}

}