Expt 10 -Express app using template engine:ejs for login page

To create a simple Express.js app using the EJS (Embedded JavaScript) template engine for a login page, follow these steps:

**1. Set up your Node.js project**

First, initialize a new Node.js project and install the required dependencies.

1.mkdir express-login-ejs

2.cd express-login-ejs

3.npm init -y

4.npm install express ejs body-parser

**2. Project Structure**

Your project should have the following structure:

express-login-ejs/

│

├── views/

│ └── login.ejs

├── public/

│ └── style.css

├── app.js

├── package.json

└── package-lock.json

**3. Create app.js**

This is your main server file where you configure the Express app and render the EJS login page.

// app.js

const express = require('express');

const bodyParser = require('body-parser');

const app = express();

const PORT = 3000;

// Set EJS as the template engine

app.set('view engine', 'ejs');

// Middleware to parse form data

app.use(bodyParser.urlencoded({ extended: true }));

// Serve static files like CSS from 'public' folder

app.use(express.static('public'));

// GET request for the login page

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

res.render('login'); // Render the login.ejs file

});

// POST request for login form submission

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

const { username, password } = req.body;

// Example logic for checking user credentials

if (username === 'admin' && password === 'password') {

res.send('Login successful!'); // In practice, you'd redirect to a dashboard or homepage

} else {

res.send('Invalid username or password.'); // Handle invalid credentials

}

});

// Start the server

app.listen(PORT, () => {

console.log(`Server is running on http://localhost:${PORT}`);

});

**4. Create the EJS Template (login.ejs)**

This EJS file will contain the HTML for the login page and form submission.

html

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<!-- views/login.ejs -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Login</title>

<link rel="stylesheet" href="/style.css">

</head>

<body>

<div class="container">

<h1>Login Page</h1>

<form action="/login" method="POST">

<label for="username">Username:</label><br>

<input type="text" id="username" name="username" required><br><br>

<label for="password">Password:</label><br>

<input type="password" id="password" name="password" required><br><br>

<input type="submit" value="Login">

</form>

</div>

</body>

</html>

**5. Add Basic CSS (style.css)**

You can style the login page with some basic CSS. Place this file in the public folder.

css

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/\* public/style.css \*/

body {

font-family: Arial, sans-serif;

background-color: #f4f4f4;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.container {

background-color: white;

padding: 20px;

border-radius: 8px;

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

width: 300px;

}

h1 {

text-align: center;

color: #4CAF50;

}

form {

display: flex;

flex-direction: column;

}

input[type="text"], input[type="password"] {

padding: 10px;

margin: 5px 0;

border: 1px solid #ccc;

border-radius: 4px;

}

input[type="submit"] {

background-color: #4CAF50;

color: white;

border: none;

padding: 10px;

cursor: pointer;

border-radius: 4px;

}

input[type="submit"]:hover {

background-color: #45a049;

}

**6. Run the Application**

Start your Express server by running the following command:

>node app.js

Open your browser and navigate to http://localhost:3000/login to see the login page.

**Explanation:**

1. **Express.js** is the server framework used to handle HTTP requests.
2. **EJS** is used to render the login page template.
3. **Body-parser** middleware is used to parse form data.
4. **Static files** like CSS are served from the public folder to style the login page.
5. **POST route** handles form submission and checks credentials for login validation.