DATA236: Distributed Systems for Data Engineering

Objective:

Create a Node.js application with Express that implements a simple user authentication system for the Department of Applied Data Science at SJSU. The application should include:

- User login and logout functionality.
- Session management to keep users logged in.
- Protected routes that only logged-in users can access.
- Styling using Bootstrap to make the application visually appealing.

Requirements:

1. Routes- Handled Separately in a router 4 points

Home Page (/):
Display a welcome message for ADS-SJSU
Show a link to the login page if the user is not logged in.
Show a link to the dashboard and logout if the user is logged in.

Login Page (/login):
Display a login form with fields for username and password.
Validate the credentials and log the user in if they are correct.
Redirect to the dashboard on successful login.

Dashboard Page (/dashboard):
Display a welcome message with the user's name.
Show a logout link.
Protect this route so only logged-in users can access it.

Logout (/logout):
Destroy the session and redirect the user to the home page.

2. Session Management- 4 points

Use express-session to manage user sessions.
Store the logged-in user's information in the session.
Ensure that the session cookie is secure

3. Styling with Bootstrap – 2 points
Use Bootstrap to style all pages.
Make the application responsive and visually appealing.
Use Bootstrap components like: Navbar for navigation, Cards for forms and content, Buttons and alerts for actions and messages.

Submission Guidelines:

- Submit a single PDF named FirstName_LastName_HW3.pdf
- Include one screenshot per route page.
- Include only the app.js code at the bottom and one screenshot of your views directory