EXPERIMENT NO. 8 - AngularJS

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D.O.P.	**20/03/2025**
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Sign and Grade	

AIM : To study AngularJS

OVERVIEW OF TASKS PERFORMED :

The experiment explores key concepts in AngularJS, including one-way and two-way data binding through a demonstration. A basic authentication system was implemented with a login page that validates hardcoded credentials and displays success or error messages accordingly. The use of AngularJS controllers, modules, and form directives was demonstrated. A custom filter (bookFilter) was created to enable users to search for books by title, author, or genre. Additionally, a reusable custom service was developed to handle user authentication and integrated into the application for modularity and reusability.

GITHUB LINK - https://github.com/Sneha0321/WebX_Exp_8

OUTPUT

a) **One-way and Two-way Binding:**

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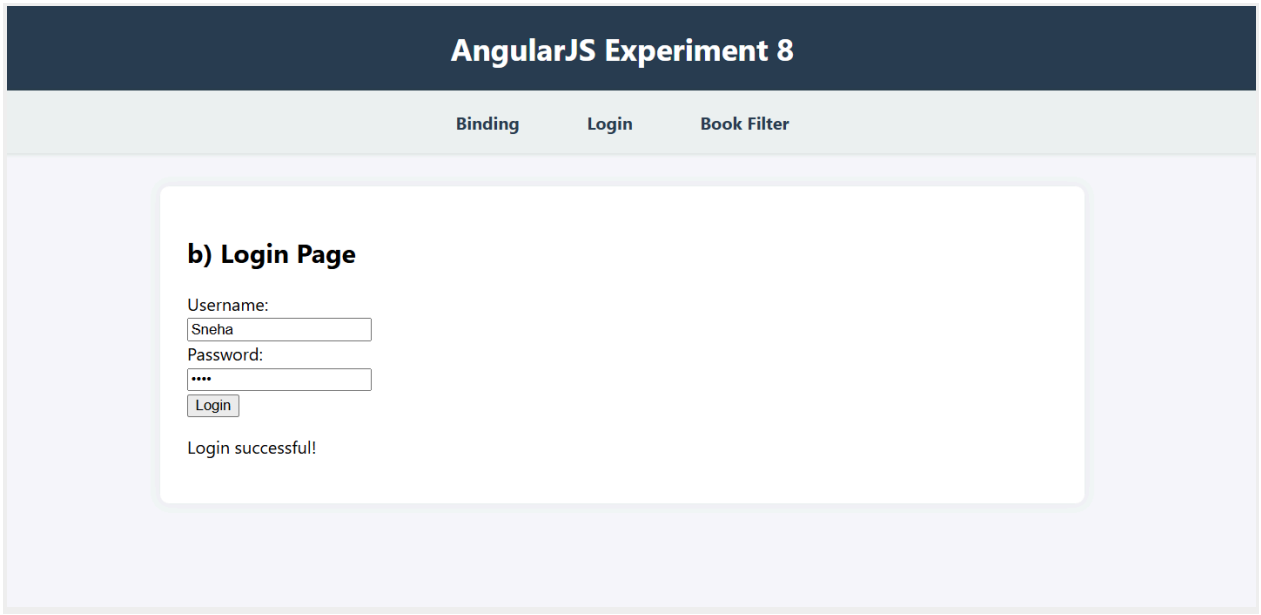
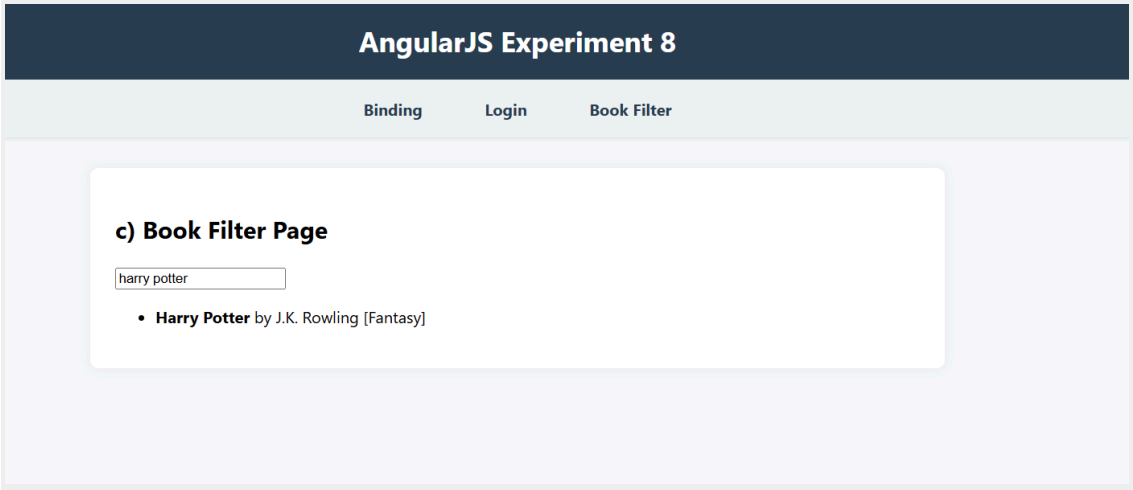
b) Login Page



This screenshot shows the login form where users enter their username and password. It demonstrates AngularJS form directives (`ng-model` for data binding, `ng-submit` for form submission) and a custom authentication service to verify credentials.

c) Book Search Page



This screenshot displays search functionality for books based on title, author, or genre.It demonstrates the implementation of a custom AngularJS filter (`bookFilter`) that dynamically filters book data as the user types in the search field. `ng-repeat` is used to loop through and display book data dynamically.

CONCLUSION:

In this experiment, we successfully explored **AngularJS** by implementing **one-way and two-way data binding**, a **basic authentication system**, and a **custom book search filter**. We used **AngularJS directives, controllers, services, and filters** to build an interactive web application. The **login system** validated user credentials, while the **book search feature** demonstrated custom filtering. Additionally, we implemented **form validation** using built-in AngularJS directives. This experiment provided hands-on experience in developing **dynamic, modular, and responsive applications** using AngularJS.