

EXPERIMENT NO. 8

Name of Student	Spandan Deb
Class Roll No	13
D.O.P.	
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Sign and Grade	

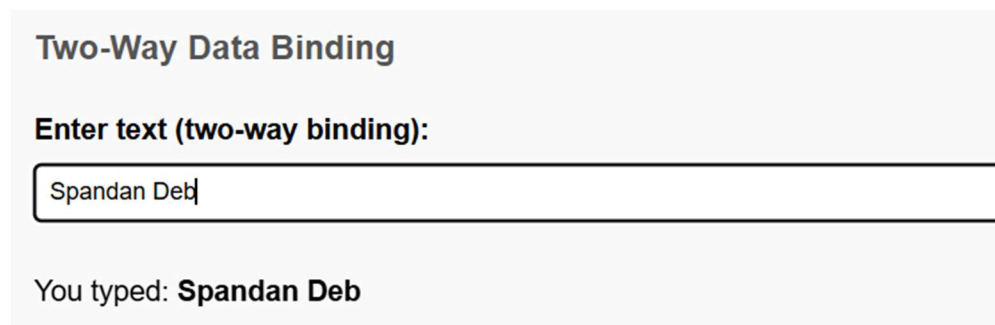
Aim: To study AngularJS

Overview of Tasks Performed:

Implemented one-way and two-way data binding in AngularJS, creating a basic authentication system with form validation, and developing a custom book filter for searching books by title, author, or genre. Additionally, a reusable authentication service was implemented to manage user login and logout functionality. The tasks demonstrated the use of AngularJS directives, controllers, services, and filters to build dynamic and interactive web applications

GitHub Link - <https://github.com/spandandeb/WebXex8>

Output:



Two-Way Data Binding

Enter text (two-way binding):

You typed: **Spandan Deb**

This screenshot demonstrates the concept of two-way data binding in a web application. Two-way data binding allows the synchronization of data between the user interface (UI) and the application's data model in real-time

One-Way Data Binding

Current time (one-way binding): **3:12:50 PM**

Update Time

One-Way Data Binding with ng-bind

Using ng-bind: **Updated Value: 3:12:51 PM**

Change Value

This screenshot illustrates the concepts of one-way data binding and one-way data binding with ng-bind in a web application

B. Basic Authentication System

Username:

spandandeb

Password:

.....

Login

Login successful! Welcome, spandandeb.

Welcome to the Dashboard

You are now logged in as spandandeb

Logout

This screenshot demonstrates a basic authentication system in a web application. It shows the process of logging in and the subsequent display of a welcome message upon successful authentication.

C. Custom Book Filter

Search books:

Enter title, author or genre

Search by:

Title

Title	Author	Genre
To Kill a Mockingbird	Harper Lee	Fiction
1984	George Orwell	Dystopian
The Great Gatsby	F. Scott Fitzgerald	Classic
Pride and Prejudice	Jane Austen	Romance
The Hobbit	J.R.R. Tolkien	Fantasy
Brave New World	Aldous Huxley	Dystopian

C. Custom Book Filter

Search books:

The H

Search by:

Title

Title	Author	Genre
The Hobbit	J.R.R. Tolkien	Fantasy

This screenshot showcases a custom book filter interface in a web application, designed to help users search and filter books based on specific criteria

D. Auth Service Implementation

Service Authentication Success!

You are logged in as: **user1**

User role: **User**

Logout

Here a user can login as a user and admin and they can logout as well it showcases a typical authentication service implementation.

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.