

Assessment

- Module 04: WD – HTML
- Module 05: WD - CSS and CSS3
- Module 06: Website Designing - HTML5
- Module 07: WD - Bootstrap Basic and Advanced (Basic Javascript)

Case Overview

Scenario:

You are a junior front-end developer at **BookNest Library**. The library wants to create an online system for users to reserve books in advance to reduce in-person traffic and better manage availability. Your task is to build a responsive reservation form and manage the data using JavaScript and localStorage.

❖ Core Functionality

Feature	• Description
Responsive Booking Form	<ul style="list-style-type: none">Create a form to collect: User Full Name, Email, Phone Number, Book Title, Author Name, and Pickup Date. Use Flexbox or CSS Grid for responsiveness.
Form Labels & UI Elements	<ul style="list-style-type: none">Include clear labels, placeholders, a date picker for pickup date, and Submit/Reset buttons.
Validation (JavaScript)	<ul style="list-style-type: none">All fields required.Email must be in valid format.Phone must be exactly 10 digits.
Data Storage	<ul style="list-style-type: none">On successful validation, store the booking data in localStorage as a list of entries.
Form Reset	<ul style="list-style-type: none">Automatically clear the form after submission.
User Feedback	<ul style="list-style-type: none">Show a confirmation message when data is saved. Show inline error messages when validation fails.

View Bookings Page	<ul style="list-style-type: none"> On view-reservations.html, read data from localStorage and display in a table: Name, Phone, Email, Book Title, Author, Pickup Date.
No Data Handling	<ul style="list-style-type: none"> If no bookings exist in localStorage, display “No bookings available” message.

Key Competencies Tested

- HTML5 Forms with Semantic Elements
- JavaScript Validation with Custom Error Messages
- Use of localStorage for Client-side Data Persistence
- DOM Manipulation and Dynamic Content Rendering
- Creating User-friendly Form UX with Feedback Mechanisms

Reflective Thinking Questions

- How would you add support for editing or canceling a booking using JavaScript and localStorage?
- Would integrating a calendar plugin or using real-time validation improve the system’s effectiveness?