

JavaScript Part-4 - Lab Assignment [Small Project involving HTML, CSS and Javascript]

Project: Online Appointment Booking System

Project Overview:

Develop a **fully functional online appointment booking system** using **HTML, CSS, JavaScript (DOM Manipulation), and Form Handling**. This project will include:

- **User Input Forms (Appointment Booking)**
 - **Dynamic UI Updates (DOM Manipulation)**
 - **Form Validation**
 - **CSS Styling & Animations**
 - **Data Persistence using Local Storage**
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Features & Requirements

1. Home Page (HTML + CSS + JavaScript)

- Create a **modern home page** with:
 - A **welcome message**
 - A list of **available services** (e.g., Doctor Consultation, Salon Booking, Car Service, etc.)
 - A **"Book Appointment"** button for each service
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2. Appointment Booking Form (Form Handling & Validation)

- Clicking "Book Appointment" opens a **form popup/modal** with the following fields:
 - **Full Name** (Required)
 - **Email Address** (Must be a valid email format)
 - **Phone Number** (10-digit numeric input)
 - **Select Service** (Dropdown: "Doctor", "Salon", "Car Service", etc.)
 - **Preferred Date & Time** (Date-Time Picker)
 - **Special Requests (Optional)** (Textarea)
 - **Agree to Terms** (Checkbox, required)
 - **Submit Button**
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3. Form Validation (JavaScript)

- Validate inputs before submission:

- Name must not be empty.
 - Email must be in a valid format.
 - Phone number must be 10 digits.
 - Preferred Date & Time must be in the future.
 - Terms checkbox must be checked.
 - Show **real-time validation error messages** below each field.
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4. Display Booked Appointments (DOM Manipulation)

- After submission, display a **dynamic list/table** of booked appointments, including:
 - **Customer Name**
 - **Service Selected**
 - **Date & Time**
 - **Status** (Default: "Pending")
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5. Store Data Using LocalStorage

- Save all appointment bookings in `localStorage` so that:
 - If the page is refreshed, previous appointments remain visible.
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6. Appointment Confirmation Popup (JavaScript + CSS)

- After submitting, display a **confirmation popup** with a message like:
 - "Thank you, [Name]! Your appointment for [Service] on [Date & Time] is confirmed."
 - Include a **close button** to dismiss the popup.
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7. Responsive & Themed UI (CSS)

- Use **CSS animations** to make form interactions smooth.
 - Ensure the design is **mobile-friendly**.
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Bonus Features (For More Challenge)

- ✓ Allow users to **reschedule/cancel appointments**.
- ✓ Add a **status update feature** (Admin can change "Pending" to "Confirmed" or "Cancelled").

- ✓ Include a **search & filter feature** to find appointments quickly.
 - ✓ Send an **email confirmation** (if integrating with a backend).
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