Project: Interactive Task / Note Manager (Pure DOM Practice)

What the app does (in ~1 screen):

- Header with title + dark/light mode toggle button
- Input field + "Add Note" button
- Live search/filter box (filters notes as you type)
- List of notes/cards — each note has:
  - Text (editable on double-click)
  - "Complete" checkbox/button (strikes through + changes color)
  - "Delete" button
  - Color picker (changes background of that card)
- Bottom bar: "Clear completed" button → shows confirmation modal
- Notes can be reordered by drag & drop

Main DOM & Events concepts used:

- getElementById, querySelector, querySelectorAll
- createElement, append, prepend, remove
- classList.add/remove/toggle/contains
- style.backgroundColor, style.display
- textContent, innerHTML (carefully), value
- Event listeners: click, input, submit, dblclick, change, keydown
- **Event delegation** (most clicks handled on parent)
- e.target, e.currentTarget, e.preventDefault()
- .closest(), .dataset, .matches()
- Drag & drop basics (draggable, dragstart, dragover, drop)
- Modal show/hide (overlay + click outside to close)

Very short HTML + CSS + JS structure (you fill the logic)

HTML

```
<!DOCTYPE html>
<html lang="en" data-theme="light">
<head>
  <meta charset="UTF-8" />
  <title>DOM Practice - Notes</title>
  <style>
    :root {
      --bg: #f8f9fa; --text: #212529; --card: white; --border: #dee2e6;
      --primary: #0d6efd; --danger: #dc3545; --success: #198754;
    }
    [data-theme="dark"] {
      --bg: #212529; --text: #e9ecef; --card: #343a40; --border: #495057;
      --primary: #6ea8fe; --danger: #ff6b6b; --success: #51cf66;
    }
    body { font-family: system-ui; background: var(--bg); color: var(--text); padding: 20px; min-height: 100vh; }
    .container { max-width: 700px; margin: auto; }
```

```
    header { text-align: center; margin-bottom: 20px; }
    #theme-toggle { padding: 8px 16px; background: var(--primary); color: white; border: none;
border-radius: 6px; cursor: pointer; }
    form { display: flex; gap: 10px; margin-bottom: 15px; }
    #note-input { flex: 1; padding: 12px; font-size: 1.1rem; border: 1px solid var(--border); border-radius:
6px; background: var(--card); color: var(--text); }
    #add-btn { padding: 12px 20px; background: var(--primary); color: white; border: none;
border-radius: 6px; cursor: pointer; }
    #search { width: 100%; padding: 10px; margin-bottom: 15px; border: 1px solid var(--border);
border-radius: 6px; background: var(--card); }
    #notes-list { list-style: none; display: grid; gap: 12px; }
    .note {
      background: var(--card); border: 1px solid var(--border); border-radius: 8px;
      padding: 16px; display: flex; flex-direction: column; gap: 10px; cursor: grab;
    }
    .note.completed .text { text-decoration: line-through; opacity: 0.6; }
    .note.dragging { opacity: 0.4; transform: scale(0.98); }
    .actions { display: flex; gap: 10px; justify-content: flex-end; }
    .btn { padding: 6px 12px; border: none; border-radius: 4px; cursor: pointer; }
    .btn-complete { background: var(--success); color: white; }
    .btn-delete  { background: var(--danger);  color: white; }
    .color-picker { width: 32px; height: 32px; border: none; cursor: pointer; }
    #modal {
      display: none; position: fixed; inset: 0; background: rgba(0,0,0,0.5);
      justify-content: center; align-items: center;
    }
    .modal-box { background: var(--card); padding: 24px; border-radius: 12px; width: 90%; max-width:
400px; text-align: center; }
    .modal-buttons { margin-top: 20px; display: flex; gap: 12px; justify-content: center; }
  </style>
</head>
<body>

<div class="container">
  <header>
    <h1>Notes Manager</h1>
    <button id="theme-toggle">Dark Mode</button>
  </header>

  <form id="note-form">
    <input id="note-input" placeholder="Type your note..." required />
    <button id="add-btn">Add</button>
  </form>

  <input id="search" placeholder="Search notes..." />

  <ul id="notes-list"></ul>

  <button id="clear-completed" style="margin-top:20px; background:var(--danger); color:white;
padding:10px 20px; border:none; border-radius:6px; cursor:pointer;">
    Clear Completed
  </button>
```

```
</div>

<!-- Modal -->
<div id="modal">
  <div class="modal-box">
    <h2>Clear all completed notes?</h2>
    <div class="modal-buttons">
      <button id="modal-no" class="btn" style="background:#6c757d; color:white;">No</button>
      <button id="modal-yes" class="btn" style="background:var(--danger); color:white;">Yes</button>
    </div>
  </div>
</div>

<script>
  // Your JavaScript code here
  // Select elements
  // Add note function
  // Event delegation on #notes-list for complete/delete/color/dblclick
  // Drag & drop logic
  // Live search
  // Theme toggle
  // Modal logic
  // etc.
</script>
</body>
</html>
```

Quick checklist of what you should implement:

1. Add note on submit / button click
2. Show/hide empty list message (optional)
3. Delete note
4. Mark as completed (toggle class)
5. Change note color via color input
6. Double-click text → turn into <input> to edit
7. Drag & drop reordering
8. Live filter notes while typing in search
9. Dark/light mode toggle
10. Clear completed → open modal → confirm → remove