**Digital Notebook with Tags and Filters - Documentation**

**1. Application Functionality**

The **Digital Notebook** is a web-based application that allows users to:

**Core Features**

✅ **Create Notes** – Add notes with a title, content, and optional tags.  
✅ **View & Organize Notes** – Display notes in a responsive card layout.  
✅ **Tagging System** – Assign multiple tags to notes for better categorization.  
✅ **Search & Filter** –

* **Search by text** (title or content).
* **Filter by tags** (select multiple tags).
* **Clear filters** to reset the view.  
  ✅ **View Note Details** – Click "View Details" to see the full note in a modal.  
  ✅ **Delete Notes** – Remove unwanted notes.  
  ✅ **Data Persistence** – Notes are saved in the browser’s localStorage and persist between sessions.

**Technical Features**

✔ **Responsive Design** – Works on desktop, tablet, and mobile.  
✔ **No Backend Required** – Uses localStorage for data storage.  
✔ **Dynamic UI Updates** – Real-time filtering and note count updates.  
✔ **Modern UI** – Built with **Bootstrap 5** for a clean, professional look.

**2. Usage Instructions**

**Creating a Note**

1. **Fill in the form** on the left side:
   * **Title** (required)
   * **Content** (required)
   * **Tags** (optional, comma-separated, e.g., work, ideas, important)
2. Click **"Save Note"** to add it to your notebook.

**Viewing & Managing Notes**

* **All notes** appear in the right panel.
* **Click "View Details"** to see the full note in a popup.
* **Click the trash icon (🗑️)** to delete a note.

**Searching & Filtering**

* **Search Box**: Type to filter notes by title or content.
* **Tag Filters**: Click on tags to filter notes.
  + Active tags are highlighted in **blue**.
  + Click again to remove them from filters.
* **Clear Filters**: Click the "Clear Filters" button to reset.

**Keyboard Shortcuts (Optional)**

* **Enter** → Submit note form.
* **Escape** → Close modal.

**3. Setup Process**

**Option 1: Run Locally (No Installation Needed)**

1. **Download the files**:
   * index.html
   * styles.css
   * script.js
2. **Open**index.html**in a web browser** (Chrome, Firefox, Edge).
   * Works offline (data saved in localStorage).

**Option 2: Deploy to GitHub Pages (Free Hosting)**

1. **Create a GitHub repository** and upload the 3 files.
2. **Go to Settings → Pages** → Enable GitHub Pages.
3. **Select**main**branch** and / (root) folder.
4. **Visit**https://[your-username].github.io/[repo-name]/

**Option 3: Extend with a Backend (Optional)**

If you want cloud sync, you can:

* Replace localStorage with **Firebase/Firestore**.
* Use **Node.js + Express** for a custom backend.
* Add **user authentication** (e.g., Google Login).

**Troubleshooting**

❌ **"View Details" not working?** → Ensure bootstrap.bundle.min.js is loaded.  
❌ **Notes not saving?** → Check if localStorage is enabled in your browser.  
❌ **Mobile layout issues?** → Use Chrome/Firefox for best compatibility.

**Future Enhancements (Roadmap)**

🔹 **Rich Text Editing** (Markdown / WYSIWYG support)  
🔹 **Dark Mode** (Toggle between light/dark themes)  
🔹 **Export Notes** (PDF, TXT, or JSON)  
🔹 **Drag-and-Drop Reordering** of notes

**Conclusion**

This **Digital Notebook** is a lightweight, easy-to-use app for organizing thoughts with tags and filters. No setup is needed—just open index.html and start taking notes!