**1. Architecture Diagram (Workflow)**

You can create a **flowchart** like this:

📌 **Tools:** Draw.io (diagrams.net), Figma, or Miro

**Workflow Diagram (Rough Sketch)**

1️⃣ **User clicks "Subscribe" on the SharePoint page**  
2️⃣ **A Power Automate Flow is triggered** (or a custom API call)  
3️⃣ **Check if the user is already subscribed**

* ✅ If not, add them to the Subscribers list of that digest  
  4️⃣ **Send a notification to the concerned person**  
  5️⃣ **The system logs the subscription activity**  
  6️⃣ (Optional) **If automation is enabled, auto-add the user to the digest instead of manual approval**

**Example Diagram (Text-based representation):**

plaintext

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[User] → Clicks Subscribe → [Trigger: Power Automate/API]

→ Checks subscription status → Updates SharePoint List

→ Notifies Admin → Logs Activity

**2. Schema Design (SharePoint Lists & Fields)**

**1. Users List (Stores user info)**

| **Column Name** | **Type** | **Description** |
| --- | --- | --- |
| UserID | Number (Primary Key) | Unique ID of the user |
| Name | Text | User's name |
| Email | Text | User's email |
| SubscribedNews | Lookup (NewsDigest List) | Digests the user is subscribed to |

**2. NewsDigest List (Stores all news digests)**

| **Column Name** | **Type** | **Description** |
| --- | --- | --- |
| DigestID | Number (Primary Key) | Unique ID of the digest |
| Title | Text | Name of the news digest |
| Description | Text | Description of the digest |
| Subscribers | Lookup (Users List) | List of subscribed users |

**3. Subscription Activity List (Tracks user actions)**

| **Column Name** | **Type** | **Description** |
| --- | --- | --- |
| ActivityID | Number (Primary Key) | Unique record ID |
| UserID | Lookup (Users List) | User who took the action |
| DigestID | Lookup (NewsDigest List) | Digest the action was for |
| Action | Choice (Subscribed/Unsubscribed) | Type of action |
| Timestamp | DateTime | When the action happened |

**3. Automation Plan**

**Using Power Automate (Easier Approach)**

* **Trigger:** When a user submits a form or clicks "Subscribe"
* **Actions:**
  + Check if the user is already subscribed
  + If not, add them to the Subscribers field in NewsDigest List
  + Send an email notification to the admin
  + Log the action in Subscription Activity List

**Using a Custom API (More Control & Flexibility)**

* Create a **Node.js API** that interacts with SharePoint using REST APIs
* The API handles **subscription logic, user validation, and notifications**

**Next Steps for You**

✅ **Create a flowchart of this workflow** (Use Draw.io or Figma)  
✅ **Define your SharePoint Lists based on this schema**  
✅ **Decide between Power Automate or a custom API for automation**