**User Manual — Cloud Disk & Virtual Machine Manager**

**Introduction:**

This system allows users to create and manage **virtual disks** and **virtual machines (VMs)** through a graphical interface. Users can create, view, modify, and delete disks, and also create and configure virtual machines using ISO files and custom settings.

**System Requirements:**

* Operating System: Windows
* Runtime Environment (e.g., Python)
* Internet connection (if using cloud integration)
* A valid ISO file for creating VMs

**System Components:**

1. **Disk Management Section**
2. **Virtual Machine Management Section**

**1️Disk Management**

**How to Use:**

**➤ Create a New Disk:**

1. Click **"Create Disk"**.
2. Enter the following:
   * **Disk Name**
   * **Disk Size** (numeric value)
   * **Unit Type**: MB or GB
   * **Format Type**: ext4, NTFS, etc.
3. Click **"Create"** to add the disk.

**➤ View Existing Disks:**

* The system displays a list of all created disks with their name, size, and format.

**➤ Edit Disk:**

* Select the desired disk.
* Click **"Edit"** to modify the size or format.
* Click **"Save"** to apply changes.

**➤ Delete Disk:**

* Click **"Delete"** next to any disk to permanently remove it.

**2️Virtual Machine Management**

**How to Use:**

**➤ Create a New Virtual Machine:**

1. Click **"Create Machine"**.
2. Provide:
   * **Machine Name**
   * **Linked Disk**
   * **Allocated Size or Resources**
   * **Boot File (ISO)**
3. Click **"Create"** to build the VM.

**➤ Modify VM:**

* You can change settings such as resources or linked disks.
* Click **"Update"** to save changes.

**➤ Run or Delete VM:**

* You can start a previously created VM.
* You can also delete the VM completely.

**Input Validation:**

* Disk size must be greater than 1.
* Names cannot be empty.
* If incorrect values are entered (e.g., size = 0), a validation message will appear.
* Ensures users enter valid numeric values and required fields.

**Required Inputs:**

| **Field** | **Type** |
| --- | --- |
| Disk Name | Text |
| Size | Number (>1) |
| Unit Type | Dropdown (MB / GB) |
| Format Type | Dropdown selection |
| ISO File (for VM) | File Upload |

**Output / Interface Features:**

* Displays disk and VM data in a structured table
* Shows confirmation or error messages
* Allows real-time editing and deletion

How to run:

cd cloud

npm install (first time only)

npm run dev

cd server

python app.py

iso file should be in the server folder