Server computer configuration for Minno MediMom Enterprise Software

- **Processor (CPU):**

    - Intel Core i7 processor with 20 cores (e.g., Intel Core i7-14700K or similar model).

    - Ensure support for AVX2 instructions for optimal facial recognition performance.

- **Memory (RAM):**

    - 32GB of DDR4 or DDR5 RAM, preferably with ECC (Error-Correcting Code) for server stability.

    - Look for RAM at a speed of 2400MT/s or higher.

    - Consider modules of 16GB each to allow for future expansion if needed.

- **Motherboard:**

    - Compatible with the chosen Intel Core i7 processor (LGA 1700 socket or newer).

    - Supports the chosen RAM type and speed.

    - Offers sufficient PCIe slots for the NVMe SSDs and the GPU.

    - Features integrated Gigabit Ethernet LAN ports.

- **Storage (Operating System & Applications):**

    - NVMe SSD: 250GB or 500GB NVMe SSD for the operating system and applications.

    - NVMe SSDs are significantly faster than traditional SATA SSDs and are ideal for booting up the operating system, loading applications, and handling large files.

    - Examples: Samsung 970 EVO Plus, Crucial P5 Plus.

- **Storage (MySQL Database & Facial Recognition Data):**

    - At least one high-performance NVMe SSD (e.g., 1TB or more) dedicated to the MySQL database and facial recognition data.

- Consider implementing a RAID array (e.g., RAID 10 for performance and redundancy) using multiple SSDs, according to MySQL Forums.

- **Graphics Processing Unit (GPU):**

  - NVIDIA GeForce RTX 4060 or a similar mid-range consumer GPU.

  - Provides hardware acceleration for facial recognition and other AI workloads.

  - While not designed for continuous 24/7 operation like professional-grade GPUs, it offers a cost-effective solution for your needs.

- **Network Interface Card (NIC):**

  - At least one Gigabit Ethernet adapter.

  - Consider adding a second adapter for redundancy and load balancing if your budget allows.

- **Server Chassis:**

  - A case with good airflow and cooling capabilities to manage heat generated by the CPU and GPU.

  - Form factor depends on your space and deployment preference (e.g., rackmount or tower).

- **Power Supply Unit (PSU):**

  - A reliable power supply with sufficient wattage to power all components.

  - Consider a unit with 650W or more, and ideally, one with 80 Plus Gold or Platinum efficiency rating.

- **Operating System:**

  - Windows Server (e.g., Windows Server 2022) with IIS role and MySQL installed.

Feel free to contact to below numbers in case of any queries –

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