**Technology Report**

Name of student

Name of professor

University

Course

Date

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To conduct business successfully, James Otis Tax Associates needs the following hardware devices: 256GB SSD with 8+ GigaBytes of RAM that can retrieve files faster than a Hard Disk Drive,  Intel Core i9 processors, and multiple USB ports.  Wilson J (2021) the chosen Processor does have enough cores to meet all of the employees' requests for quicker and more timely task completion.

Several monitors or a massive single 4K monitor that allows employees to work for lengthy periods at a workspace with minimal eye strain An external hard disk for backups, Nvidia Geforce Graphics Card with 4GB of RAM, The purpose of a video card is to help the CPU work more efficiently by managing the visible portion of the processing capability. Given the majority of modern applications are visually based, a video card will make almost any application operate faster, printer- Canon I-SENSYS LBD223dw A4 Mono Laser Printer,  Power Supply- RMx Series™ RM1000x — 1000 Watt 80 PLUS® Gold Certified Fully-Modular PSU,  Staff should be able to scan, print, fax, and photocopy directly from their workstation. It could save a lot of extra time if anybody does not have to walk to much machinery to accomplish their work, Bassil (2012).

The required accessories will be a fax machine, network printer,  wireless keyboard and mouse, second monitor, and scanner. The hardware, as mentioned above collection will be needed for all three jobs to perform their duties effectively and competently. Considering the RAM and CPU recommendations, your workers will be able to multitask and run many apps at high rates without their computers stalling. The choice to own two monitors for every laptop aligns with the prior promise of efficiently multitasking to complete work and provide competent and prompt client assistance.

Since your staff will be inputting tax information and reports daily at the office, the keyboard and mouse you select should be user-friendly. Every staff's desk containing an All-in-One printer reduces office roaming and permits staff to duplicate and print customer forms without departing their seats. They would additionally be able to scan official papers and fax paperwork from the convenience of their desks.

James Otis Tax Associates needs the subsequent software programs to conduct business efficiently: Microsoft Windows 11, the most recent operating system, offers performance-enhancing features. They will require office automation solutions, like cloud-based accounting software, namely QuickBooks online accountant and Intuit's QuickBooks Online, to take proper charge of the heavy lifting so you can concentrate on the vital business accomplishments. Security software like premium antivirus software like Kaspersky and Microsoft Defender will be required.

James Otis Tax Associates should implement the following security measures; encrypted file storage, encrypted "cross-server" Backups, strong Password Policies, Brute Force Login Protection, Patch Management, State-of-the-Art Firewall, SQL Injection Protection, detailed reporting and Audit Trails, and high-Level Filename Obfuscation, and operating system hardening.

The star topology network will be the recommendable network model. Like a multifunction machine, all wired equipment will be connected by a wireless router. They will be a star and Wi-Fi structure hybrid, with mobile devices that can maintain a secure network. I will establish a virtual private network (VPN) to allow a certain user to access data when out of the office. A LAN will backup data to the cloud server automatically every day. Since hardware resources might be destroyed during usage, resulting in data losses, this protection will keep secret information private. This will be important to set up a VPN and a domain server to ensure safe network access. I will assign IP addresses to each machine to safeguard consumer data security. By mapping IP addresses, we can verify that no devices can join a network. A firewall and network bandwidth will be employed to maintain track of network security. By assessing the user's requirements and optimizing the network's performance, the broadband will be monitored. It will guarantee that the connectivity is clear of malicious domains and suspicious behaviors, Jahanshahi (2019).

To assure greater performance and upgrades in the future, I recommend obtaining a CAT-6 network cable; its transmission rate is substantially quicker than the normal CAT-5, which only provides rates of 10/100 Mbps. I additionally suggest an ISP-based optical fiber, including FIOS; the distinction between regular internet and fiber optic is that optic fiber speed is not collective with some other clients, as it is with the transmission line. We can save money by using VOIP instead of a traditional landline. The Data Entry Specialist, CPA, and tax Specialist workstations are among the workspaces.

**References**

Wilson J., 2021, Untangling the Legacy of The Color Purple <https://newrepublic.com/article/161165/legacy-color-purple-alice-walker-book-review>

Bassil, Y. (2012). A simulation model for the waterfall software development life cycle. arXiv preprint arXiv:1205.6904.

Valacich, J. S., & George, J. F. (2022). Modern Systems Analysis and Design (2017, ). Pearson.

Dar, H., Lali, M. I., Ashraf, H., Ramzan, M., Amjad, T., & Shahzad, B. (2018). A systematic study on software requirements elicitation techniques and its challenges in mobile application development. IEEE Access, 6, 63859-63867.

Jahanshahi, M., & Bistouni, F. (2019). Reliable networking in Ethernet ring mesh networks using regular topologies. Telecommunication Systems, 72(2), 199-220.