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Assignment: 4

<u>PART A</u>

<u>Business Description</u>

Edge Gaming is a game design, development and distribution company. Competing at the apex of the gaming industry, we have released well received games by the public and gaming world alike. We provide services in specialised and custom built games for the Nintendo, Sony PlayStation, Xbox and PC platforms.

<u>Importance of the Technology</u>

High-end desktop computers of great quality would be a very important asset to the success and smooth running of the company. They would help in every area and department to make otherwise tasking jobs easier. Through this computers and a strong network infrastructure, we can build a central information nervous system, a database so to say which will in the long run, improve our customer relations and revenue boosting the company to greater heights.

      Every fortune 500 company has had as one of the keys to it's success. Computers, good one's which were utilised in the most appropriate way to facilitate the growth and development of the company. I believe the purchase of the computers are an instrument to our future success, the best investment one can make in this industry.

<u>Recommended PC Model</u>

In relation and reference to the proposed PC models sent to us by the local distributor, I believe our best option of purchase would be PC1. My choice and reason would be justified in the following pages where I explain the importance of each of the specified components sent to us by the distributor

<u>Computer Hardware</u>

<u>Specification: CPU;</u>

Here the CPU is described as 1.8Ghz AMD quad-core processor, i find this appropriate because firstly, AMD processors are widely used in game development as regards to those of other vendors. Also, with a speed of 1.8Ghz, it would be able to crunch more pieces of data and information faster, making the work of our graphics and other teams easier increases efficiency. Lastly, the processor is specified as quad-core which basically means the processor has four different cores or processing centres, inside of it providing redundancy and faster data processing. In simpler terms, it works four times faster.

Specification: Bus Speed;

Trying to avoid too much lingo and geek talk in this report, i would explain this specification as simple as possible. Bus Speed specified as a SATA with speeds reaching 1.5 Gbps and 3.0 Gbps (Gigabits per second) just means the computer would communicate with any of our external devices such as flash disks, external hard drives etcetera, faster. The speed is a result of the new SATA technology which is the industry standard.

Specification: RAM Memory;

The specified RAM memory of 8 GB means our computers would be able to run much faster. The RAM Memory is basically a temporary storage location where the processor moves files to so it can work on them, thereby the more or higher the RAM memory is, the higher the amount of work, or data our processor can crunch which would be truly essential especially during game testing to enable smooth running(no freezes, hangs or crashes).

Specification: Hard Drive / Disk Storage;

Our recently released games have been climbing at a rapid space in it's size. Generally in the industry, games are climbing from 2 GB or 8 GB to 16 GB to 70 GB. At this rate, our old computers which had lower storage spaces would soon be filled and exhausted prompting us to invest in external hard drives. A storage space of 512 GB would be essential to provide storage space for our source code, designs, graphics and other gaming materials reducing our dependence on external hard drives.
The speed specified as 5400RPM(Revolutions per Minute) is also critical to the development team. A hard drive packing a lot of storage but slow to read and write data to and from it is virtually useless in our line of work. I conclude that a speed of 5400 RPM would therefore be efficient and therefore our best choice.

Specification: Optical Drive;

Though this is becoming gradually deprecated in high-end PC's due to it's slow speed, a CD + DVD optical drive would be useful for writing our games and other materials to CD's for easy retail, storage and distribution.

Specification: Video Card;

This to me, is our most essential component as regards to our line of business. NVIDIA, a company specializing in developing high end graphic cards and software to maximize the gaming experience has been the industry standard for a while. An NVIDIA graphics card in our PC's would be essential for our game graphics to come out nicely, in high resolution and definition. They are also famously used to develop graphics for some sci-fi movies such as Transformers: Age of Extinction. Coupled with 2048 GB video memory, which allows space for much more graphics crunching and processing and our AMD quad-core processor, our PC's would be the perfect machines. AMD processors and NVIDIA graphics are famously combined, optimized and popular for being highly suitable for gaming and game development.

Specification: Audio Card;

A high-definition audio card would be suitable and highly recommended to process our game's audio and ensure it's quality before it is released. It would also be useful during sound editing, engineering, recording, etcetera.

Specification: Network Support;

An Ethernet LAN support would support connectivity and high speed networking in our devices to ensure maximum information sharing. Support of wired network connections is essential in our PC's.

Specification: Integrated Wi-Fi;

This PC's support wired as well as wireless technology which is generally preferred because of it's ease to use and setup. This would ensure maximum networking and connectivity at all times and in all areas around the office. Support of wireless technology on this PC would reduce t he cost of running network cables over the whole building to support wired networks which is quite expensive as opposed to wireless technologies.

Specification: Bluetooth Connectivity;

Though Bluetooth is not as fast in speed as other wireless technologies, they are in theory much more suited for transferring of small files without internet connectivity or a wired network connection. Essentially, this PC is an all rounder and ensures connectivity in all situations.

Specification: Input / Output:

This is in regard to input and output devices that this PC is included with;

* Webcam for video conferencing, use with skype and other video conferencing applications.
* 2 USB Ports for connectivity with external devices like hard drives, flash drives etcetera.

* The lack of a VGA monitor port is barely an issue as in our line of business, HDMI ports would be preferred to support viewing quality of our graphics and games during game testing.

* Connectors for line-in, line-out for support with external audio processing devices like amplifiers, microphone and also connectors for headphones are quite needed. The microphone connectors can be used with a microphone to record game audio, the headphone can be used with the headphone connectors during sound engineering, editing, etcetera.

Specification: External Devices;
* A 19 inch LCD monitor would offer an optimal enough resolution and viewing quality.
* Keyboard and Mouse are an essential component of any desktop computer, keyboard for inputting text, essential during programming and the mouse during graphic design, editing,

etcetera, the applications are endless.

* The above devices come included in the desktop computer by the local distributor.

Computer Soft wares

Specification: System Software;

* The system comes pre-installed with Microsoft's Windows 10 Home, an industry standard for desktop computers, very secure, reliable, fast and very easy to use.

Specification: Application Software;

* A Microsoft office 2013 CD is included but not installed. This software would be useful in areas of word processing and formatting, power-point presentation, database management, etcetera.

Specification: Utility Software;

* Antivirus, Spyware detection, Fire ware, File backup software, Data compression softwares all come pre-packaged by the distribution. All very essential in their own way.

* Anti-virus software would be installed and used to detect viruses and stop them from infecting the computer and to avoid loss of critical files and information.

* Spyware detection software would be installed and uses to monitor the computer for malicious software installed to spy and steal important data and critical information from the system.

* File backup software would be installed and used to automatically back-up system files to a backup storage location. This would enable recovery of data in case of a system crash, etc.

* Data compression software would be installed and used to compress our games, files and source code in order to save storage space.

PART B

1 a.   What competitive advantages can you identify in this case?

   Two competitive advantages 7-Eleven had over other chains of convenience and independent stores are:

i. A sophisticated product tracking system.

ii. The ability to predict the wants of its customers.

b. What is meant by a "consumer-focused orientation"?

A consumer-focused orientation is a strategy that establishes and monitors standards of customer satisfaction and strives to meet the clientele's needs and expectations related to the product or service sold by the business.

2. the 7-eleven in japan had some ERP system set up, the components are;

- Customer service: the 7-eleven implemented theirs so the could discover who the customers were and what they wanted. The basically need that to just keep record on the customers, so they see the customers preferences, in this way the 7-eleven knows which goods to bring in and sell to their customers.
- Warranty tracking: the management of 7-eleven knew that the implementation of sophisticated product tracking devices would make it easier to know where what is and what set of goods needed replenishment
- Monitoring of inventories: this was implemented by them so that it would be easy to organize and make things more orderly

3. A. Just-in-time approach is a technique 7-Eleven used to regulate the stocking of goods on a customer-request basis. By implementing just-in-time approach 7-Eleven was able to save cost while maximizing profit and customer demands.

3. B. the DSS (decision support system) was programmed in such way that it collects data on the consumption of goods every hour, so this allowed the DSS to monitor the consumption rate per hor. That is how the DSS collects data.
        The way this monitoring DSS benefits them is how they know exactly what the customer wanted and when because this made it easier for them to negotiate a good price with the suppliers.

3. C. From my own perspective, the advantages to 7-Eleven of having a manufacturing base that makes   products   exclusively   for   its   stores   include   but   are   not   limited   to:
 i. The manufacturing base and 7-Eleven have and work towards a common goal- to produce and maintain high quality products.

4.A. Time-distribution system is one in which a business(in this case 7-Eleven) changes the product menu in the morning and in the evening to suit customer needs at different times of the day based on extensive research.

4. B. So this time-distribution helps &-eleven in the sense that they know what to sell and when to sell to customers, this helps 7-eleven negotiate a good price with the suppliers and helps them save money. Since the needs of the customers in the morning differ from those in the evening, "a time-distribution system" enables 7-Eleven to display the most appropriate items at different hours of the day.

4. C. Yes a time-distribution system infringes on the privacy of the customers. As the popular saying goes "the end justifies the means", although the system infringes on the privacy of the customers, it does provide high quality products that meet the needs of the customers.

5. internet access affected the customers positively because it made it easier for shopping. The customers were able to shop online because of internet access.

Some benefits of the internet technology are:

- It enabled online shopping
- It helps 7-eleven keep track of goods through the internet
- It helped 7-eleven profit from the internet when customers paid the to use the internet

The internet kioski was useful because it enabled the customers pay for goods in the store from the internet.