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Wireless Technology on Samsung Galaxy S4

IT Research Paper

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Introduction:

Society depends heavily on technology, whether for personal or business use. Having the newest technology is a way for individuals to stay updated with new developing products. Products are always being improved due to new development in information technology, affecting our society today. It is important for companies such as Verizon to develop products that will positively influence the market and satisfy its customers. On September 8, 2013, Samsung Electronics introduced a new device named Samsung Galaxy S4. Samsung Electronics was founded by Lee Byung-chul, who was one of the most successful businessmen in South Korea. The Samsung Galaxy S4 has not had many security concerns, normal ethical and social problems, and no legal issues, making it a great product currently and for the future.

Background:

Samsung Electronics is known for having a creative background when it comes to technology. Samsung Electronics has made Samsung Galaxy S3 and Samsung Galaxy Note II, leading to the creation of Samsung Galaxy S4. In a current article written by Ashutos Jain, he states, "The beauty of the phone is the highly crafted design encompassing a larger screen size and battery, minimized bezel; all housed in a light (130g) and slim (7.9mm) shape. The Samsung GALAXY S4 is slimmer yet stronger, with less to hold yet more to see. It has come up with simply unreal beauty. At launch, two color options will be available – Black Mist and White Frost; with a variety of additional color options to follow later this year"(Jain, 2013). Samsung Galaxy S4 created a product where it could compete with other developing mobile devices. This aspect alone, grasped the customers attention due to the features and the gadget supporting HSPA +42Mbps and 4G LTE, meaning perfect connectivity wherever and whenever. Ashutos

Jain further states, “Equipped with a 13 megapixel rear camera, the GALAXY S 4 also boasts a ‘Dual Camera’ function that allows simultaneous use of both front and rear cameras. When capturing moments, users can choose from a variety of frame effects which blend the two pictures naturally and also adjust the size of the small picture inside the big one. Users can select 8 different ways to combine the two photos taken by the front camera and the rear camera. At the same time, the ‘Dual Video Call’ function enables you to make and receive a video call with friends and family while showing what you are looking at during the call” (Jain, 2013). New features that come with the Galaxy S4 are preloaded consisting of Touch Wiz Nature UX 2.0, Air View, Smart Pause and Smart Scroll, Samsung KNOX, S Translator, S Voice Drive, S Travel, S Health, Air Call accept, Group Play, and Share Music.

Potential Benefits:

A product like Samsung Galaxy S4 will remain popular now and in the future due to the features of it being used in multiple ways. This product has the ability to provide great entertainment quality, which satisfies numerous customers. This product has continuously improved from Samsung Galaxy S3 and Samsung Galaxy Note II to the formation what is now known as Samsung Galaxy S4. In a recent article, Vishal Gaikar states, “It fits perfectly at the back of the Samsung Galaxy S4. To place the wireless cover, you need to remove the charging cover and just fit the wireless cover in. This wireless cover allows wireless charging at any time. Wireless charging feature allows user to just put their Samsung S4 into the docking station and their smartphone will get charge wirelessly. The wireless case has a built in magnetic alignment between the wireless charging pad and back cover making sure that the phone is always placed correctly on the mat for optimum charging. To start using your wireless back cover for charging, you need to purchase a S4 charging Pad. This S4 charging pad helps charge your Samsung

Galaxy S4 through the wireless charging cover through electromagnetic field and inductive coupling that send and energy charge from the charging pad to your phone” (Gaikar, 2013).

Samsung Electronic was able to create exactly what society looks for, new technology. Samsung Galaxy S4 can potentially become installed into computers, allowing some of the same features and updates within schools and businesses. Samsung Galaxy S4 was developed primary for the customer’s convenience and more accessible for long hours, providing a portable charging case.

Social and Ethical Issues:

The Samsung Galaxy S4 can be utilized by all groups of age and race. With any new product that’s created and put on the market, social and ethical issues are critical, allowing customers to experience how enjoyable the product is despite demographic reasoning. The Samsung Galaxy S4 brings those who are far apart together with features including video chats, sharing each other’s favorite music, pictures, and games. “Friends can share screens as well as explore each other’s favorite music, files and games. The Samsung GALAXY S4 not only overcomes barriers of distance but also breaks down language barriers.” Many Samsung customers are thrilled with the results of the Samsung Galaxy S4, but fear that the social aspects of the device such as video, pictures, music, files, and social media apps may slow down the server, resulting in slow reception. Even though the Samsung Galaxy S4 is a great product, it has had some issues with receiving reception in areas that do not receive service. This is a social and ethical issue because while it is an inconvenience to the customer, the situation can be resolved. Samsung is an ethical business.

Security Concerns:

Security concerns are always thought of when new products are released and sold. However, with the Samsung Galaxy S4 there are severe security problems. Many customers had concerns on if the mobile video chat will make the battery die quickly and the picture size and quality of the video. Shraboni Jana explains by stating, "Mobile video chat are resource-constrained and heterogeneous with varying display sizes, processing powers, network conditions and battery level and poses real-time delivery constraints unlike traditional video streaming applications. With the demand for anywhere any-time connectivity for video chat, it becomes quintessential to develop techniques that adapt to the underlying network, optimize the device architectures and provide best possible video chat experience to end users"(Jana, 2013). This direct approach does not interfere with other networks, causing security problems or being able to hack into any other person's video chat. One can chose to video chat from a selective security process, which limits any outside connection interfering within your connection. Other than what the customer decides to do, no other form of security can be provided. This mobile device's wireless technology is completely safe and blocks any potential hackers from being able to get data or any type of information from this device. With the continuously improved technology that is released, customers must fully understand how to operate the product so no future problems occur.

Legal Issues:

Legal issues would occur if another company tried to use the same name or product from the original company. Samsung Electronics is the owner of this product and has full ownership. To avoid complications, Samsung Electronics customized a product uniquely to fit other technological wireless devices such as the Samsung Galaxy S4. Due to the different features and shape of this wireless mobile device, it would be excessively difficult for another company to

copy this exact product. Roberto Baldwin and Nathan Olivares-Giles stated, “The S4 looks like a larger version of its predecessor. It’s thin, it’s light, and it’s made of plastic. The sloped edges and anti-iPhone styling are all in place. The S III had a 4.8-inch, 720p, Super HD AMOLED display covered in Corning’s scratch-resistant Gorilla Glass 2. The S4 has a 5-inch, 1080p Super HD AMOLED display covered in Gorilla Glass 3. The S III was 0.34-inches thick; the S4 is 0.31-inches thick. The S III weighed 4.7-ounces; the S4 weighs 4.6-ounces. While the S III had an 8-megapixel rear camera, and a 1.9-megapixel front camera, the S4 has a 13-megapixel rear camera and a 2-megapixel front camera” (Samsung, 2013). Creating this unique product was an excellent idea because other companies would have to deal with legal issues of duplicating any Samsung Electrical product.

Conclusion:

The Samsung Galaxy S4, a new product released by Samsung Electronics, is a device made to meet the customers’ satisfaction. This device provides wireless technology that is unique, creative, and essential for the use of today’s society. Samsung will continuously be successful if the company interest previous and current customers by creating products such as the Samsung Galaxy S4. There are limited security concerns with this product, making it a reliable and safe product to use daily. Regardless of demographics, customers can thoroughly enjoy this product due to it have very few social and ethical issues. Samsung has not endured many challenges with legal issues with new products released, continuously attempting to avoid legal violations. This product will most likely expand technologically in the future, allowing customers to keep updated with today’s wireless technology.

Work Cited

(1)

Jain, Ashutos. (2013, March). Introducing Samsung Galaxy S4 (with Galaxy S4 Icons Included).

Retrieved September 20, 2013 from <http://www.ugeeky.com/introducing-samsung-galaxy-s4/>.

Annotation: This article talks about the release date for Samsung Galaxy S4 and the different features that come with this mobile device. This also speaks on how the customer will view this product, and how this mobile device can positively change the future technologically.

(2)

Jain, Ashutos. (2013, March). Introducing Samsung Galaxy S4 (with Galaxy S4 Icons Included).

Retrieved September 20, 2013 from <http://www.ugeeky.com/introducing-samsung-galaxy-s4/>.

Annotation: This article speaks on the technological advances that will be brought to the future due to the new developed features that come with this mobile device. The article notes that the Samsung Galaxy S4 is the most technologically advanced product that Samsung has released.

(3)

Gaikar, V. (2013, June). Official Samsung Galaxy S4 Wireless Charging Cover: Review.

Retrieved September 21, 2013 from <http://www.beinggeeks.com/2013/06/official-samsung-galaxy-s4-wireless-charging-cover-review.html>.

Annotation: This article covers how Samsung Galaxy products are being released at a brisk pace. Samsung Galaxy S4 has now released a wireless charging case, making it more convenient for customers who run out of battery quickly. Now since this product is formed, customers can be satisfied with their purchase.

(4)

Jana, S., Pande, A., Chan, A., & Mohapatra, P. (2013). Mobile Video Chat: Issues and Challenges. *IEEE Communications Magazine*, 51(6). Retrieved on September 25, 2013.

Annotation: This magazine article covers how security issues such as mobile video chat may be a concern with many customers. However, the Samsung Galaxy S4 blocks any type of hackers from receiving any information from the device. Security codes are used to avoid any interference between the two communicators using mobile video chat.

(5)

Baldwin, R., & Olivarez-Giles, N. (2013, March 14). [Web log message]. Retrieved September 29, 2013 from <http://www.wired.com/gadgetlab/2013/03/galaxy-s-iv-the-five-things-you-need-to-know-about-samsungs-flagship-phone/>.

Annotation: This blog covers the legal aspects of the Samsung Galaxy S4. This device was uniquely made to avoid any duplication from other companies. This product was created with a unique shape and numerous features that other wireless technology devices do not have.

(6)

Samsung Galaxy S4. (2013, September 28). Retrieved September 29, 2013 from <http://www.samsung.com/ae/promotions/galaxys4/>.

Annotation: This web page elaborates on Samsung products and how successful or unsuccessful they have been. This also covers information on how customers will view and rate new products.