

2a

The computing innovation that is represented by my computational artifact is that of a smart fridge. Smart fridges use technology to monitor the temperature and inventory of the fridge using advanced sensors and cameras implemented within the appliance. This device also provides a multimedia platform that is functional for both entertainment and general productivity. Day to day tasks have further been simplified due to the advanced features provided within the smart fridge. One of these tasks include keeping lists for grocery shopping. The fridge can keep these noted and remind you of what needs to be bought at the grocery store when needed.

2b

I used the program named Photoshop in order to create my artifact. The process used to create the artifact go as follows: I opened a new document and collected my images using the Samsung website as the artifact revolves around their Family Hub Refrigerator. I made sure to keep each image on their own individual layers in case any possible mistakes were to occur. I arranged the images onto the blank document and provided labels indicating certain aspects of the appliance mentioned within my artifact. These aspects mentioned include features such as wifi capability, internal cameras, external display with touch screen capability, and not to mention its \$2,500.00 USD price tag. To add some flare and uniqueness into my document, I took the time to add some effects onto the images known as layer styles. These layer styles provide a more more smooth and well-rounded tone into the overall observation of the document. After making adjustments to my artifact, I saved the image in both a .PNG and .PDF format.

2c

Though it provides quite a lot of features, the Samsung Smart Fridge holds a hefty price of over \$2,500.00 USD. This puts into perspective the worth of damaging your economic value for a smart fridge. The appliance collects data based off of your google account and can be accessed remotely via an app. This opens an opportunity to be hacked however. According to the article, “Your kitchen appliances are watching you, security experts warns” by Marie Mawad and Stefan Nicola, privacy concerns are being raised due to the fact that kitchen appliances are becoming more advanced and a lot of personal information is being relayed to large corporations to alter their advertisements to fit you based off of your purchasing habits. The article also brings up the concern that these images taken of the food you consume may sway the perspectives of certain insurance agencies as they will now know the cause of one’s health issues in some cases. This sets forth a negative mindset as according to a KasperSky survey commissioned in June 2015, “Of all respondents, 71 percent said they're worried about internet companies collecting their personal data, and nearly 1 in 2 respondents said they had negative feelings about the digital future.” With the statements provided, the question may arise regarding the worth of purchasing a smart fridge or any smart kitchen appliance for that matter. The results may have an obvious negative majority, but it may be possible that this percentage may level when more people become accustomed to having new technologies in their household.

2d

The camera and sensor relay their data to the main computational device and server and display it onto the monitor located on the outside of the fridge. The monitor is equipped with touch screen capability, allowing for the customization of the display. The device takes user input and transfers it into useful data used in conjunction with onboard memory to aid in your everyday

life. Different models of smart fridges have been produced that provide many other features such as RFID scanners that you can scan needed items in which it will remind you of at a later date. These fridges also adapt to one's everyday patterns and run necessary cycles and system operations without being instructed to do so. This data is stored onto the fridge and can assist in saving money by creating a detailed shopping list based off of your purchases.

2e

References:

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