

# Techpoint X-tern(security)

Monday, August 24, 2020 8:22 AM

## Security

### Situation

Delivering food during the COVID-19 pandemic is a risky job. The FoodieX has decided to put together a compelling incentive package to attract drivers. As part of this incentive package, all new employees will be given a \$1,000 allowance to spend on a curated list of goods and services provided by The FoodieX. The IT department has successfully lobbied for half of that allowance (i.e. \$500) to be allocated to items that enhance security.

### Your Task

Your task is to make a list of ~10 security-related items that will be made available for employees to purchase. This list should contain a selection of items covering a variety of security domains, including, but not limited to, mobile device and physical security. Each item on the list should include:

- The name of the item.
- A weblink to learn more.
  - This can be anything from a link to a purchasing site (e.g. Amazon) to a link to the home page of a web service.
- A 1-2 sentence describing how the item will enhance security. This should be written with the new drivers as the intended audience.

### FAQ

- What can an item be?
  - An item can be anything from desktop or mobile software, web service licenses, or physical products that will be mailed to the new drivers. Anything that can be bought on behalf of or given to the drivers is allowed.
- If an item is for a web service, what exactly is The FoodieX purchasing?
  - Assume The FoodieX will be providing a coupon or voucher for the driver to purchase a license to the service themselves.
- If one of these items fails, will The FoodieX be held liable?
  - This is a hypothetical exercise, so you do not need to worry about hypothetical liabilities today. If this were a real exercise, you would need to work with your company's legal department to determine your company's legal stance/appetite.

### Supplemental Resources

<https://duckduckgo.com/?q=physical+security+basics>

<https://duckduckgo.com/?q=mobile+device+security>

<https://www.youtube.com/watch?v=PRm7Z95uhcw>

From <[https://techpoint.formstack.com/forms/2021\\_class\\_of\\_xtern\\_work\\_sample\\_assessme](https://techpoint.formstack.com/forms/2021_class_of_xtern_work_sample_assessme)

### List of Security Items:

- 1) The Club: The club is a tempered steel bar that cannot be cut and attaches to any car's steering wheel. Once attached steering the vehicle is impossible and it's high visibility auto theft.
  - a. The Club 3000 Twin Hooks Steering Wheel Lock, Yellow
    - i. \$18.90
    - ii. [https://www.amazon.com/3000-Hooks-Steering-Wheel-Yellow/dp/B004HNT4WQ/ref=sr\\_1\\_1?dchild=1&keywords=the+club&qid=1603147500&sr=8-1](https://www.amazon.com/3000-Hooks-Steering-Wheel-Yellow/dp/B004HNT4WQ/ref=sr_1_1?dchild=1&keywords=the+club&qid=1603147500&sr=8-1)
- 2) phone security software: A phone security software will protect the drivers information, the customers information, and the company's information. This will make sure the drivers phone does not get hacked and he does not get sent to the wrong house and ambushed.
  - a. Zimperium- Had to call to get a price

- b. Avast Ultimate Security \$23.88/device
      - i. <https://www.avast.com/en-us/premium-security#pc>
- 3) Car Sticker: A car sticker ensures that a driver is an employee of FoodieX. This is important to protect customers from fraudulent delivery drivers.
  - a. If the company buys them in bulk, \$<\$1
  - b. <https://www.stickermule.com/products/die-cut-stickers>
- 4) Dash cam: A dash cam can record delivery drivers and their surroundings. This ensure that if there was any wrongdoing that the perpetrator is on camera.
  - a. APEMAN 1440P&1080P Dual Dash Cam, 1520P max, Support 128GB, Front and Rear Camera for Cars.
    - i. \$99.99, but honey finds a 10\$ discount = 89.99
  - b. APEMAN Dash Cam, Front and Rear Camera for Cars
    - i. \$59.00, but with coupon of 20% = \$47.20

From <<https://www.amazon.com/dp/B07GRV85NP?tag=highlightreviews-65886-20>>
- 5) Robin - AI Voice Assistant
  - a. All you have to do is watch this video and you will understand.
  - b. Free
  - c. [Robin: Feel like a secret agent!](#)
  - d. <https://www.youtube.com/watch?v=k5ivln-B7Zk>
- 6) Ham radio: A ham radio is two-way communication that can withstand disasters. Ham Radio signals reach farther and works even if the grid is down.
  - a. BaoFeng Dual-Band Ham Two-Way Radio (Black)
    - i. \$28.94

From <[https://www.amazon.com/BaoFeng-UV-5R-Dual-Band-136-174-400-480/dp/B0097252UK/ref=sxin\\_10\\_lp-trr-2-na\\_c78cafd5bca5a5f085fd115d92a54f57c359cdd1?cv\\_ct\\_cx=ham+radio&dchild=1&keywords=ham+radio&pd\\_rd\\_i=B0097252UK&pd\\_rd\\_r=c0fc1140-3579-4d13-b7b7-1ea94e022d3d&pd\\_rd\\_w=oAgTg&pd\\_rd\\_wg=OT2O1&pf\\_rd\\_p=79c6e13e-fbdb-4ab1-8d83-9d1dbd2f11f4&pf\\_rd\\_r=N4G2CS2MZCJX5ZP15GGH&qid=1603147913&sr=1-1-5519553e-2baa-451e-af83-b0156e5c6669](https://www.amazon.com/BaoFeng-UV-5R-Dual-Band-136-174-400-480/dp/B0097252UK/ref=sxin_10_lp-trr-2-na_c78cafd5bca5a5f085fd115d92a54f57c359cdd1?cv_ct_cx=ham+radio&dchild=1&keywords=ham+radio&pd_rd_i=B0097252UK&pd_rd_r=c0fc1140-3579-4d13-b7b7-1ea94e022d3d&pd_rd_w=oAgTg&pd_rd_wg=OT2O1&pf_rd_p=79c6e13e-fbdb-4ab1-8d83-9d1dbd2f11f4&pf_rd_r=N4G2CS2MZCJX5ZP15GGH&qid=1603147913&sr=1-1-5519553e-2baa-451e-af83-b0156e5c6669)>
- 7) Gps software: A GPS software is necessary for both the company and the customer. Customers get to see real time delivery estimates, and the company makes sure the driver is not heading home after every drop off just to get extra gas money.
  - a. OptimoRoute (Business): \$26.10/driver, live tracking, web service api, breadcrumbs
  - b. OptimoRoute (Enterprise): \$35.10/driver, (Business) + analytics, realtime order tracking
  - c. OnTime 360(Enterprise): \$199/10 drivers = \$19.9/ driver, OnTime web services and API, customer web portal(order tracking), HIPAA-compliant, "Programmer's Paradise"-ontime360
    - i. <https://www.ontime360.com/overviewmobile.aspx>
- 8) Heavy flash light: A flashlight is useful to find apartment numbers and to make sure you are safe in the night. The heavy part of the flashlight is for that little bit of protection as you walk up to an unknown location in the dark.
  - a. Maglite Heavy-Duty Incandescent 4-Cell D Flashlight, Black
    - i. \$20.99
    - ii. [https://www.amazon.com/Maglite-Heavy-Duty-Incandescent-4-Cell-Flashlight/dp/B00002N6SI/ref=sr\\_1\\_1?crid=SXCRJFMUV8OI&dchild=1&keywords=maglight+incandescent+flashlight&qid=1603148208&srefix=maglight+incan%2Caps%2C166&sr=8-1](https://www.amazon.com/Maglite-Heavy-Duty-Incandescent-4-Cell-Flashlight/dp/B00002N6SI/ref=sr_1_1?crid=SXCRJFMUV8OI&dchild=1&keywords=maglight+incandescent+flashlight&qid=1603148208&srefix=maglight+incan%2Caps%2C166&sr=8-1)

- 9) Phone holder: It is now illegal to hold a cellphone while driving. We should ensure that our drivers are complying to all laws and keep them safe.
  - a. Mpow Car Phone Mount
    - i. \$15.99
    - ii. [https://www.amazon.com/Mpow-Windshield-Anti-Shake-Stabilizer-Compatible/dp/B07X2WGT72/ref=sr\\_1\\_4?dchild=1&keywords=mpow+car+phone+mount&qid=1603148246&sr=8-4](https://www.amazon.com/Mpow-Windshield-Anti-Shake-Stabilizer-Compatible/dp/B07X2WGT72/ref=sr_1_4?dchild=1&keywords=mpow+car+phone+mount&qid=1603148246&sr=8-4)
- 10) Pepper Spray: Pepper spray is a last ditch effort to protect our drivers. In the chance case of an assault, pepper spray will decelerate even the biggest of attackers.
  - a. Pocket Pepper Spray \$14.99
  - b. <https://www.mace.com/products/pocket-pepper-spray-neon-blue>

I started my research by watching countless videos of deliver driver and trucker safety. These inspired most of the physical hardware I chose for the security of our drivers. Next, I dove into the security failures of mobile devices. I learned that our devices are not created for security, and that we should all use some software to protect our personal information on our mobile devices. I was concerned not only with our drivers security, but also their safety. I added a few safety items to help keep our drivers safe from threats and comfortable doing their job. The total price of all my safety equipment comes out to:  $18.90+23.88+1+47.20+28.94+19.9+20.99+15.99+14.99=191.79$

The rest of the  $500-191.79=308.21$ , should be given to the driver to buy military grade gas masks.