

Team 18  
Bader Almatouq  
Kai Brooks  
Andrew Forsman  
Jeff Roman  
HW 6 - System Design: Modeling

## **Assumptions/Decisions**

In modeling this system, we assumed and decided certain things in order to model the system. These included:

- Sensors will use Wifi to transmit data to server
- Sensors will take temperature data every 5 minutes and send it to server
- Sensor will stay connected to wifi once powered
- Sensors will have firmware/wifi connectivity before being powered by customer for the first time
- Sensor will be associated with specific vaccine parameters (storage temp, minimum time between samples, etc) which will be used to generate alerts
- Server will run on AWS with database using SQL
- Server will assign sensors unique ID's upon their first connection
- 
- Customer will access temperature current value/history through web
- Customer will be alerted via email regarding temperature outside of acceptable range

We have also included the GET specification as well as assumptions that went into it, due to that portion being completed before Professor Faust's email saying to ignore it. We assumed that it was worth including since the work was already done.