



# How we analyzed this problem

- We Brainstormed
  - We thought up ideas from something we've seen or heard of before
  - or we just made up something and fine-tuned the details to make it more realistic
- We Detailed
  - Then we wrote down our ideas
  - And we thought about the details
- We Voted
  - When we were done, we voted on the ones we were going to talk about to the doctor

# Some of our solutions

- Anti-food Allergy Filter
- Wireless Food Allergy Sensor/ Scanner

# Anti-food allergy filter

- Filter the food (liquid and solid) and remove the allergic ingredient from the food
- One type is disposable (and bio-degradable), another one is reusable. Both are foldable.
- Use steel for light-weight and easy to clean
- Size is small enough to put it in a lunch box or a lunch bag
- Cost is around \$ 100 (reusable) or \$ 20 (6-pack disposable)

# Wireless Food allergy sensor/scanner

- Can detect if the food (liquid and solid) has any allergic ingredient based on the user/owner's medical profile
- One type is non-contact (using ultrasound wave to detect/scan). Another one will be in the food to detect (more like a sensor).
- Wirelessly (via wi-fi, bluetooth, etc) connected to a device/laptop/iPhone to send/receive information
- Can be used together with the filter if allergic content is detected and needs to be removed from the food
- Can have a special version to work with iPhone/iPad/iPod Touch and install an iPhone Apps for this detection
- Cost is around \$ 200

# Trash

- We focused on food allergies