Need Identification

GNG 1103 Project - Group 9

Customer Wants and Needs

- Redesign Lighting System:
 - Brighter, said wants LED, did not know what makes one lighting system better than others
 - Wants bulbs which remain in current price range (No HID that run approx. \$150)
 - \circ The plants need 4000-6000K light sources, and grow best at 18 C 24 C [so cant get to hot from lights]
- Portability:
 - o On Wheels
 - Fit in an Elevator / car
 - o Short enough for children
 - o Maintain efficient use of space
 - Modular
- Bigger Reservoir:
 - o Alert Mobile / Alarm
 - Secondary (Backup)
 - Way to see water lever easily
 - o Easy to clean
- Water Spout:
 - o More precision into plant holder
 - More consistent drip rate
- Branding:
 - o Place to explain
 - Logo that won't be covered by plant growth

Problem Statement

The company requires a hydroponic system which can be easily transported by children. The system should have the ability to effortlessly check the water reservoir level and is capable of sustaining the plants for multiple days. The structure should be place-able in a classroom, have bright, yet affordable, lights which only require a common household power-outlet.