

Deliverable B: Need Identification and Product Specifications

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1. **Statements/Observations:**

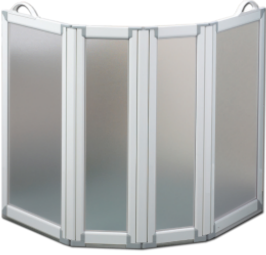
- The portable curtain will be used for outing purposes and the privacy for persons of disabilities, as their wheelchair may prohibit the door from closing.
- The curtain needs to be able to attach to the walls of the washroom. It should be a sliding curtain that must be portable and allow for the stall to be covered allowing privacy for the occupant.
- The curtain needs to be able to be carried by the LIFE assistant and have to be portable enough to be able to be carried in a bag or be able to be attached to a wheelchair
- The curtain should not be permanently attached to the rod but attached by rings. It must also be detachable to allow it to be washed and reused.
- The curtain must be 6-8 inches off the ground for sanitary reasons and so that no person may trip or accidentally detach the curtain.
- As a non functional requirement the curtain should be decorative, maybe have a design. The curtain should be made out of vinyl material.
- The rod/curtain must be adjustable to adapt to washrooms stalls of different sizes and port-a-potty/etc.
- The weight should be not too heavy but sturdy and easy to carry.


2.

Need	Priority
Portability	3
Weight	5
Privacy	1
Ease of Use	4
Cost	6
Adjustability	2
Aesthetic	7

3. Problem Statement: Disabled people at the LIFE Society have problems with privacy in public spaces and need a curtain to hang outside washroom doors which will provide privacy. The curtain needs to be designed to be very portable, sturdy and adjustable to fit washrooms of all sizes and types to offer a suitable solution.

4. Benchmarking: Similar products already on the marketplace

Product	Specifications	Value
 <p>ASW Medicare Portable shower screen "4 Panel"</p> <ul style="list-style-type: none"> - Foldable hinge design, but bulky and heavy 	Portability	Ok, Folds to 0.75-0.9mx0.4m
	Material	Polycarbonate
	Weight	30.1 Kg
	Dimensions	0.75-0.9m x 1.05m
	Cost	\$357 US
	Adjustability	Ok, Hinge design to swivel
	Aesthetic	Plain white color
	Ease of Use	Low, bulky and heavy
<p>Medicus Health- PVC Portable Privacy Screen with Casters</p> <ul style="list-style-type: none"> - Light - Foldable, hinge and wheel design - Not compact 	Portability	Ok, Wheel design, but not foldable
	Material	PVC, vinyl
	Weight	25lbs
	Dimensions	1.87m x 1.63m
	Cost	\$259.00 US
	Adjustability	Ok, Adjusts each panel

	Aesthetic	Good, Multiple colours
	Ease of Use	Good, wheel design

5. Metrics:

Need	Metrics	Unit
Portability	The size and dimensions of the entire product. Length/Width	Inches
Weight	The weight of the Rod and curtain combined	Kg
Privacy	The exposed area covered by the curtain	Feet % coverage
Ease of Use	The speed it takes to setup and takedown	Seconds
Cost	The total amount spent on materials	\$CAD
Adjustability	The difference in length that the rod can adjust to	Inches

6. Target Specifications:

Specifications	Description	Value
Portability	Size and dimensions of product	< 2' x 1' folded size
Weight	Total weight of rod and curtain as a whole	< 10lbs
Privacy	Exposed area covered by curtain	=95% area coverage
Ease of Use	Speed of set up/ Teardown	<1 min
Cost	Price	<\$100
Adjustability	Length rod can extend to	=2-5ft

7. Reflections:

The interview we had was successful. Our client was very cooperative and descriptive when it came to explaining the problem and need in great detail and also aiding in brainstorming ideas and various solutions for the project. During the meeting ideas were already starting to flow and all of us as a group could start to visualize the process that we are about to start. Our team received an ample amount of information needed for us to begin our project.