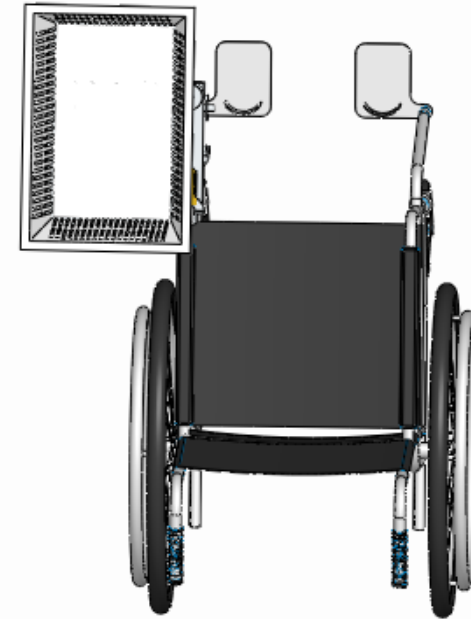


The Grocery Mate



Team Purple B
October 21st, 2010

Product Vision



- 🛒 manual wheelchair accessory
- 🛒 universal and easy attachment
- 🛒 improved user independence



Purple B

Benchmarking



Maneuverability		✓	✓
Large Capacity	✓		
User Freedom	✓		✓
Collapsibility			✓
Low Cost		✓	✓

Preliminary Contract

Customer Need	Attribute	Specification
Ease of attachment/ detachment	Clamp force	Requires less than 20 lbs of force
Adaptability for many wheelchairs	Adjustable clamp	Clamp clasps poles 0.5"-2" in diameter
Ability of basket to change position relative to user	Rotating track	90 degrees of rotation, 2 ft of translation
Ability to carry many groceries	Weight	Maximum 40 lbs, product and groceries
Maneuverability	Clearance	Maximum width of 24"

Critical Risks

- 🛒 grocery weight carrying capacity
- 🛒 wheelchair balance
- 🛒 easily detachable
- 🛒 adaptability to different wheelchairs



Next Steps

- 🛒 testing attachment mechanism on a range of wheelchairs
- 🛒 engineering for safety and comfort
- 🛒 reducing overall weight
- 🛒 surveying more users





Thank you!