**GO TO THE ACTUAL PRS FOR THE UPDATED ONE**

**Functionability**

1. The product must fold to fit within an 9 cubic feet space
2. The product must have separate storage compartment
   * See [SKB 2.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
3. The product must have an UPF rating no less than 40
4. The product have high maneuverability on public transport
   * See [SKB 5.4](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
5. The product must have adjustable seating heights
   * See [SKB 2.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
6. The product be suitable for children ranging from infants to toddlers

**Usability**

1. The product must have locking/latching system to prevent unintentional folding
2. The product must hold at least 100 lbs with no more than 1 infant/ small child
3. The product must weight no more than 30lb
   * ADD research here to support this claim
   * See [SKB 2.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
   * See [SKB 4.2](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
   * See [SKB 4.4](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
4. The product must move at the speed at which the user walks with reasonable force which the user produces when walking
5. The product must have a Factor of Safety (FOS) of 2
6. The product must be accessible and reliably fold
   * See [SKB 4.2](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
   * See [SKB 4.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
7. The product must have a braking system
8. The product must have a suspension system
   * See [SKB 2.2](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
   * See [SKB 4.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
9. The product must provide shade and weather protection
   * See [SKB 2.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
10. The product must have an adjustable footrest
    * See [SKB 2.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
    * See [SKB 4.6](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
11. The product must have height and length adjustable handle bars
    * See [SKB 2.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
    * See [SKB 4.6](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
12. The product must follow ASTM International Stroller Safety Standards, ASTM F833-21, chapters 6 for performance standards
13. The product must have caster angles between 2-4 degrees on the front tires
    * See [SKB 5.5](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
14. The product must have a seat that can recline 180 degrees
    * See  [SKB 2.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)

**Productibility**

1. The product must use off the shelf fasteners
   * [SKB 6.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
2. Materials used must comply to ASTM International Standards for Material Safety, ASTM F1004
3. The product must be designed for easy disassembly
4. The product must use all aluminum tubing frame
   * [SKB 6.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
5. The product must use injection molding for all plastic parts

**Maintainability**

1. The product must be resistant to fluids
   * [SKB 6.2](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
2. The product must be able to be cleaned easily
   * [SKB 6.2](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
3. Standardized fasteners must be used
   * [SKB 6.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
4. Fabric cover must be machine washable
   * [SKB 6.2](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
5. The product must have easily replaceable parts
6. The product must feature non-corrosive materials
   * [SKB 6.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
7. The product must allow for tool-free disassembly

**Sustainability**

1. The product must consist of minimum of 50% recycled material
2. The product must include a take-back program
3. The product must be packaged in biodegradable packaging
   * [SKB 6.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
4. The product must have minimal packaging
   * [SKB 6.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
5. The product must have a refurbish program