**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
7. 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)

**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 follow ASTM International Stroller Safety Standards, ASTM F833-21, chapters 6 for performance standards
12. 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)
13. 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 use all aluminum tubing frame
   * [SKB 6.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)

**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 feature non-corrosive materials
   * [SKB 6.1](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)

**Sustainability**

1. The product must be packaged in biodegradable packaging
   * [SKB 6.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)
2. The product must have minimal packaging
   * [SKB 6.3](https://docs.google.com/document/u/4/d/1YEjEXJfWXH6WhaKF20ACS39N4-rEMIp-a03EXtmuQ7s/edit)