

PRODUCT DESCRIPTION:

DuoSeat is a **bike seat attachment** with foldable feet support which allows you to carry a passenger while you bike and has the dual functionality of carrying cargo as well!

INTENDED CUSTOMERS:

- young professionals 25-45y/o (commuters and urban dwellers)
- bikers in developing countries

MARKET:

the bike accessories market (annual growth of 22%)



OUR PRODUCT

CUSTOMER NEED	PRODUCT ATTRIBUTES (UNITS)	ENGINEERING SPECIFICATIONS
Robustness	Passenger weight (lb)	Up to 200 lb
Easy installation	Time to install (min)	\leq 15 minutes
Compatibility	Works with most bikes (binary)	Yes
Balance	Easy to balance (binary)	Yes
Carry cargo	Weight (lb)	Up to 50 lb



STABILITY:

to ensure that a rider and passenger could balance safely and not crash

ERGONOMICS:

how to make the passenger comfortable? are handles/ foot pegs/special seat needed?

DURABILITY:

that the rack would not fail, or that the frame and/or wheels would be able to withstand the weight.

CONVERTIBILITY:

from passenger-carrying mode to cargo-carrying mode.





- ✓ no handles
- ✓ better balance if hold onto rider
- ✓ foot pegs closer to the ground
- ✓ rack is very
 uncomfortable
 to ride on
- ✓ front-facing position is better for safety



ST FINDINGS FROM





LET'S SEE HOW

- ✓ Swaying motion while the passenger is on the bike
- Not all bikes can sustain the weight
- ✓ It's hard to balance for the rider at the start
- ✓ Seat and pegs improve the experience



2ST FINDINGS FROM

"it's a very interesting idea"

"I want to make sure it's safe"

"It looks a little bit dangerous, but also very practical"

"It might be hard to balance with other person"

CHALLENGES

Convert from cargo to passenger seat

Sleek profile

Rack design

Handle design





