About Us
We are 2.009’s Purple Team, a group of 16 undergraduates in the Mechanical Engineering Department at MIT. Our task was to design and develop a finished product related to both food (our class theme) and accessibility (our team’s theme).

Questions or Comments? Contact Us:
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ALSO SEE OUR CLASS WEBSITE:
HTTP://WEB.MIT.EDU/2.009

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Concept
The Grocery Mate will allow many wheelchair users to shop both conveniently and independently.
The Problem
Currently, when wheelchair users grocery shop, they must either carry a basket in their lap or use a store-owned scooter. These methods can be time-consuming, uncomfortable, and limiting.

The Solution
The Grocery Mate is the first product that is both quickly attached and completely adaptable for individual users and wheelchairs.

Our Design
Our basket design maximizes convenience and adaptability. The Grocery Mate can be quickly assembled and disassembled, and can attach to wheelchair foot posts that vary from 1 to 1.25 inches in diameter.

Attachment and Frame
The clamps have a large interface to easily latch the Grocery Mate to the wheelchair. The frame locks to a tube on the clamps. The user can customize the Grocery Mate by adjusting the frame both horizontally and vertically.

Basket
The basket easily latches to the frame, and is designed to collapse for easy transportation. It can also double as a utility tray.

Specifications
- Attachment in less than 30 seconds
- Carries up to 40 lbs in weight
- Height and lateral adjustments
- Adaptability for different wheelchairs