

## I2: "Lunchibles" Lunchbox Requirements

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Description of Need:		Some individuals with limited mobility have difficulty with opening their lunchboxes							
#	Requirement Type	Requirement Statement	Level: (1-3) Most- Least Pertinent	Prototype #1	Prototype #2	Prototype #3	Prototype #4	Prototype #5	Prototype #6 (This Version in Instructables)
1	Design	The device has high physical safety	1	Yes	Yes	Yes	Yes	Yes	Yes
2	Design/Functional	User can open with limited use of one hand	1	Yes	Yes	Yes	Yes	Yes	Yes
3	Design/Functional	User can close with limited use of one hand	1	Yes	Yes	Yes	Yes	Yes	Yes
4	Design/Functional	The device is portable	1	No	Yes	Yes	Yes	Yes	Yes
5	Design/Functional	The device can be interacted with without sliding off of surface	1	Yes	Yes	Yes	No	No	Yes
6	Design/Functional	The device can be interacted with without tipping over	1	Yes	Yes	Yes	No	No	Yes
7	User/ Physical	Button is visible (User request)	1	No	No	No	Yes	Yes	Yes
8	User/ Physical	Can fit in user's locker (User request)	1	Yes	Yes	Yes	Yes	Yes	Yes
9	Physical	The device is made of wash-friendly material	1	Yes	No	No	Yes	Yes	Yes
10	Design	The device has a highly intuitive design	2	Yes	Yes	Yes	Yes	Yes	Yes
11	Design	The device has a professional finish (minimal to no changes to original look for bought items)	2	No	No	No	No	Yes	Yes
12	User/Design	The device is safe for food safety (According to the FDA)	2	Yes	Yes	Yes	Yes	Yes	Yes
13	User/ Design	The device is made with user-defined opening mechanisms (magnet, push button, knob, Velcro)	2	Yes	Yes	Yes	Yes	Yes	Yes
14	User/ Physical	The device is made of firm material, as per user request	2	Yes	Yes	Yes	Yes	Yes	Yes
15	Physical	The device is highly durable despite continual use	2	Yes	Yes	Yes	Yes	Yes	Yes
16	Cost	The device has low production cost (\$7-\$25)	2	Yes	Yes	Yes	Yes	Yes	Yes
17	Design	The device has average lunchbox dimensions (3-4" D x 7-8" H x 9-10" W)	3	No (8.30" W x 12.00" H x 11.8" L)	No (8.30" W x 12.00" H x 11.8" L)	No (8.30" W x 12.00" H x 11.8" L)	No (8.30" W x 12.00" H x 11.8" L)	No (8.30" W x 12.00" H x 11.8" L)	No (8.30" W x 12.00" H x 11.8" L)
18	Physical	The device has average weight (5-10 oz, 140g-285g)	3	No (1120 g)	No (1120 g)	No (1120 g)	No (998 g)	No (998 g)	No (998 g)
19	Functional	Detachable and Adjustable Strap	3	No	No	No	Yes	Yes	Yes