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Descriptio	on of Need			The device sho	uld locate lost items						
#	Level	Requirement Type	Requirement Statement	Design #1 (Rover)	Design #2 (Drone)	Design #3 (Bluetooth)	Air Tag	Tile Tracker	Competitor #3 (Database)		
1	1	Functional	The device shall identify the locations of items within an area with at least 90% accuracy.	Yes	Yes	No	No	No	No		
2	1	Functional	The device shall reduce the frequency of searching for lost items by at least 50%.	Yes	Yes	Yes	Yes	Maybe	Yes		
3	1	Functional	The device shall have a product lifespan of at least 1 year.	Yes	Maybe	Maybe	Maybe	Yes	Yes		
4	2	Functional	The device shall conduct searches at least once a day.	Yes	Yes	Yes	Yes	Yes	Maybe		
5	2	Cost	The device shall not be greater than a total of \$300.00 in cost.	Yes	Yes	Maybe	Maybe	Yes	No		
6	2	Functional	The device shall sustain movement and data collection for at least 30 minutes.	Yes	No	No	No	No	No		
7	3	Physical	The device shall be able to maintain functionality autonomously	Yes	Yes	Maybe	Maybe	Maybe	Yes		
8	3	Functional	The device shall report any unresolvable errors to the client	Yes	Yes	Yes	Yes	Maybe	Yes		
9	3	Physical	The device shall not obstruct the view of the client.	Maybe	Maybe	Yes	Yes	Yes	Yes		
Descriptio	n of Need		The device should communicate the location of the lost items to the client.								
#	Level	Requirement Type	Requirement Statement	Design #1 (Rover)	Design #2 (Drone)	Design #3 (Bluetooth)	Air Tag	Tile Tracker	Competitor #3 (Database)		
1	1	Functional	The device shall respond to client requests for misplaced items within 10 seconds.	Yes	Yes	Yes	Yes	Yes	Yes		
2	1	Functional	The device shall accept commands from natural language	Maybe	Maybe	No	No	No	No		
3	2	Physical	The output device should be secured properly.	Yes	No	Yes	Yes	Maybe	No		
4	2	Appearance	The user interface should be aesthetically pleasing.	Yes	Yes	Maybe	Maybe	Maybe	Yes		
5	2	Functional	The device shall not store recordings for more than 10 minutes.	Yes	Yes	Yes	Yes	Yes	Yes		
6	2	Physical	The device shall not take more than 1 cubic yard of space.	Maybe	Yes	Yes	Yes	Yes	Yes		
7	3	Functional	The output should be customizable to suit the client.	Maybe	Maybe	No	No	No	No		
8	3	Cost	The cost of maintenance and upkeeping sholuld be less than \$100.00 per year.	Maybe	Maybe	No	No	No	No		
Descriptio	n of Need		The device should be safe to use.								

#	Level	Requirement Type	Requirement Statement	Design #1 (Rover)	Design #2 (Drone)	Design #3 (Bluetooth)	Air Tag	Tile Tracker	Competitor #3	
1	1	Safety	The device shall not cause injury to the client(s).	Yes	Yes	Yes	Yes	Yes	Yes	
2	1	Safety	The device shall not significantly impede the ability of the client to navigate their house.	Maybe	Maybe	Yes	Yes	Yes	Yes	
3	1	Functional	The device shall not cause damage to any property on the household.	Yes	Maybe	Yes	Yes	Yes	Yes	
4	2	Appearance	The device should have a display for showing lost items.	Yes	Yes	No	No	No	No	
5	2	Functional	The device shall not capture unauthorized media of any private property without explicit permission by the client.	Yes	Maybe	Yes	Yes	Yes	Yes	
6	2	Physical	The device shall be less than 10 pounds.	Maybe	Yes	Yes	Yes	Yes	Yes	
7	3	Physical	The device shall have a strap for carrying.	Yes	Yes	No	No	No	No	
8	3	Physical	The device shall be aesthetically pleasing.	Yes	Yes	Yes	Yes	Yes	No	
9	3	Physical	The charging port shall be grounded and secure.	Yes	Yes	No	No	No	No	
Description	on of Need	Additional Requirements								
						Design #3				
#	Level	Requirement Type	Requirement Statement	Design #1 (Rover)	Design #2 (Drone)	(Bluetooth)	Air Tag	Tile Tracker	Competitor #3	
1	2	User	The user shall be able to use a basic application on a mobile phone or computer.	Yes	Yes	Yes	Yes	Yes	Yes	
2	2	User	The user shall be able to pick up the device.	Maybe	No	Yes	Yes	Yes	Yes	
3	3	User	The user shall be able to navigate their house and avoid the device in motion.	Yes	Maybe	Yes	Yes	Yes	Yes	
4	2	Documentation	The device shall include a training manual.	Yes	Yes	Yes	Yes	Yes	Yes	
5	3	Documentation	The device shall have a software API.	Yes	Yes	Yes	Yes	Yes	Yes	