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Class: EPL 434

Exercise Gorgias - Refund policy

Decision theory

Normally, reject refund requests to save money. If the buyer caused the damage, also reject the request. Do not accept items that are out of warranty period or do not have live long warranty. If it's technical issue, try to repair the item, but only if it won't cost more than buying a new one. In that case exchange for a new item. If the item is no longer available and customer should be compensated, return money.

Scenarios

- <1, { not warranty(it) }, reject(it) >
- <2, { caused(it) }, reject(it) >
- <3, { not caused(it), warranty(it), repairable(it), repair_cheap(it) }, repair(it) >
- <4, { not caused(it), warranty(it), not repairable(it) }, refund(it) >
- <5, { not caused(it), warranty(it), not repairable(it), selling(it) }, new(it) >
- <6, { not caused(it), warranty(it), repairable(it), not repair_cheap(it) }, refund(it) >
- <7, { not caused(it), warranty(it), not repair cheap(it) }, refund(it) >
- <8, { not caused(it), warranty(it), not repairable(it), not selling(it) }, refund(it) >
- <9, { not caused(it), warranty(it), repairable(it), repair_cheap(it), selling(it) }, repair(it) >
- <10, { not caused(it), warranty(it), not repair_cheap(it), selling(it) }, new(it) >

Predicates

Option Predicates

- 1) reject(Request)
- 2) repair(Request)
- 3) refund(Request)
- 4) new(Request)

Defeasible Predicates

- 1) caused(Request)
- 2) repairable(Request)
- 3) repair cheap(Request)
- 4) entitled(Request)

Non-defeasible Predicates

- 1) warranty(Request)
- 2) selling(Request)

Sensors

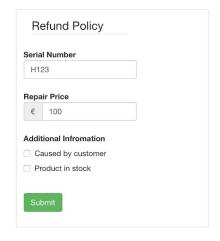
- 1) repair_price(Request, D) User input
- 2) caused(Request) User input
- 3) selling(Request) User input
- 4) exist(Request) Database record
- 5) price(Request, D) Database record
- 6) lifelong_warranty(Request) Database record
- 7) bought_days_ago(Request, D) Database record + current date

Database content

Serial number	Price	Date	Lifelong Warranty
K123	134.9	2018-11-23	no
H123	171.9	1995-11-11	no
M123	108.9	1995-11-11	yes
P123	426.9	2018-11-11	no

Scenarios

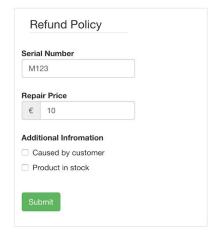
SCENARIO #1

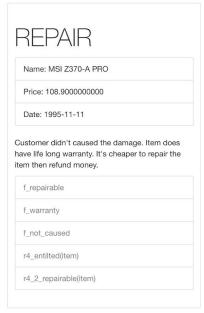






SCENARIO #3





assertz(considered(item)).

assertz(exists(item)).

assertz(price(item, 108.900000000)).

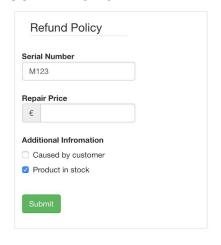
assertz(bought_days_ago(item, 8429)).

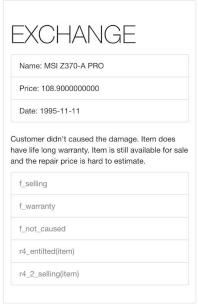
assertz(repair_price(item, 10)).

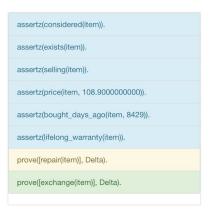
assertz(lifelong_warranty(item)).

prove([repair(item)], Delta).

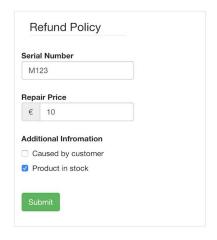
SCENARIO #5

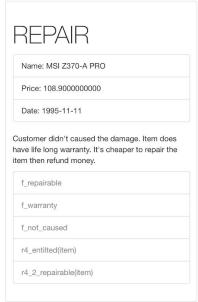






SCENARIO#9







SCENARIO #10

