

Operation Contracts, SAD Phase 3

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-- Contract sendRequest --

Operation: sendRequest(requestType, hasEvaluator:bool)

Cross-References: درخواست انبار، درخواست جابجایی، درخواست بسته‌بندی

Preconditions:

- User has logged in the system

Postconditions:

- A new request was created, and its type was inferred from the passed type argument
- If it was specified for this request to have an evaluator, an evaluator was assigned to this request

-- Contract evaluate --

Operation: evaluate(date, address)

Cross-References: درخواست انبار، درخواست جابجایی، درخواست بسته‌بندی

Preconditions:

- User has requested evaluation

Postconditions:

- An Evaluation has been issued

-- Contract selectTimeSlot --

Operation: selectTimeSlot(timeSlots: container<TimeSlot>)

Cross-References: درخواست انبار، درخواست جابجایی، درخواست بسته‌بندی

Preconditions:

- Has done evaluation or User hasn't requested evaluation

Postconditions:

- A TimeSlot (which represents the one selected by our customer) was returned

-- Contract pay --

Operation: pay(cost, link)

Cross-References: درخواست انبار، درخواست جابجایی، درخواست بسته‌بندی

Preconditions:

- None

Postconditions:

- A pair of {date, boolean} was returned, which specifies the exit status of payment subprocess

-- Contract payRequest --

Operation: payRequest(cost)

Cross-References: درخواست انبار، درخواست جابجایی، درخواست بسته بندی

Preconditions:

- Customer was asked to pay an amount via a link (through a method call)

Postconditions:

- A pair of {date, boolean} was returned, which specifies the exit status of payment subprocess

-- Contract schedule --

Operation: schedule(date, address)

Cross-References: درخواست جابه جایی

Preconditions:

- Customer had successfully paid for his request

Postconditions:

- None, the specified moving team was just notified

-- Contract status --

Operation: status(date, address)

Cross-References: درخواست جابه جایی

Preconditions:

- A scheduling was issued for a moving team

Postconditions:

- Remaining payment amount was determined

-- Contract payRemaining --

Operation: payRemaining(mem)

Cross-References: درخواست جابه جایی

Preconditions:

- Remaining payment amount was greater than zero

Postconditions:

- None, (user pays the remaining amount in cash)

-- Contract handleRemaining --

Operation: handleRemaining(rem)

Cross-References: درخواست جابه‌جایی

Preconditions:

- Remaining payment amount was greater than zero

Postconditions:

- None, (system just updates payment status of current user)

-- Contract specifyArea --

Operation: specifyArea(void)

Cross-References:

Preconditions:

- None

Postconditions:

- Residency area of user was specified

-- Contract checkForArea --

Operation: checkForArea(area)

Cross-References: درخواست انبار

Preconditions:

- None

Postconditions:

- A boolean value was returned, indicating whether any storage has enough capacity for the on-going request

-- Contract deposit --

Operation: deposit()

Cross-References: درخواست انبار

Preconditions:

- Customer had successfully paid for his request

Postconditions:

- None, specified storage unit receives goods from user

-- **Contract** handleDeposit --

Operation: handleDeposit()

Cross-References: درخواست انبار

Preconditions:

- A scheduling was issued for a moving team

Postconditions:

- None, storage manager just gets notified

-- **Contract** reportOnDeposit --

Operation: reportOnDeposit()

Cross-References: درخواست انبار

Preconditions:

- Storage manager was notified of a deposit on the storage unit under his management

Postconditions:

- Storage manager issues a report to system on the specified deposit