

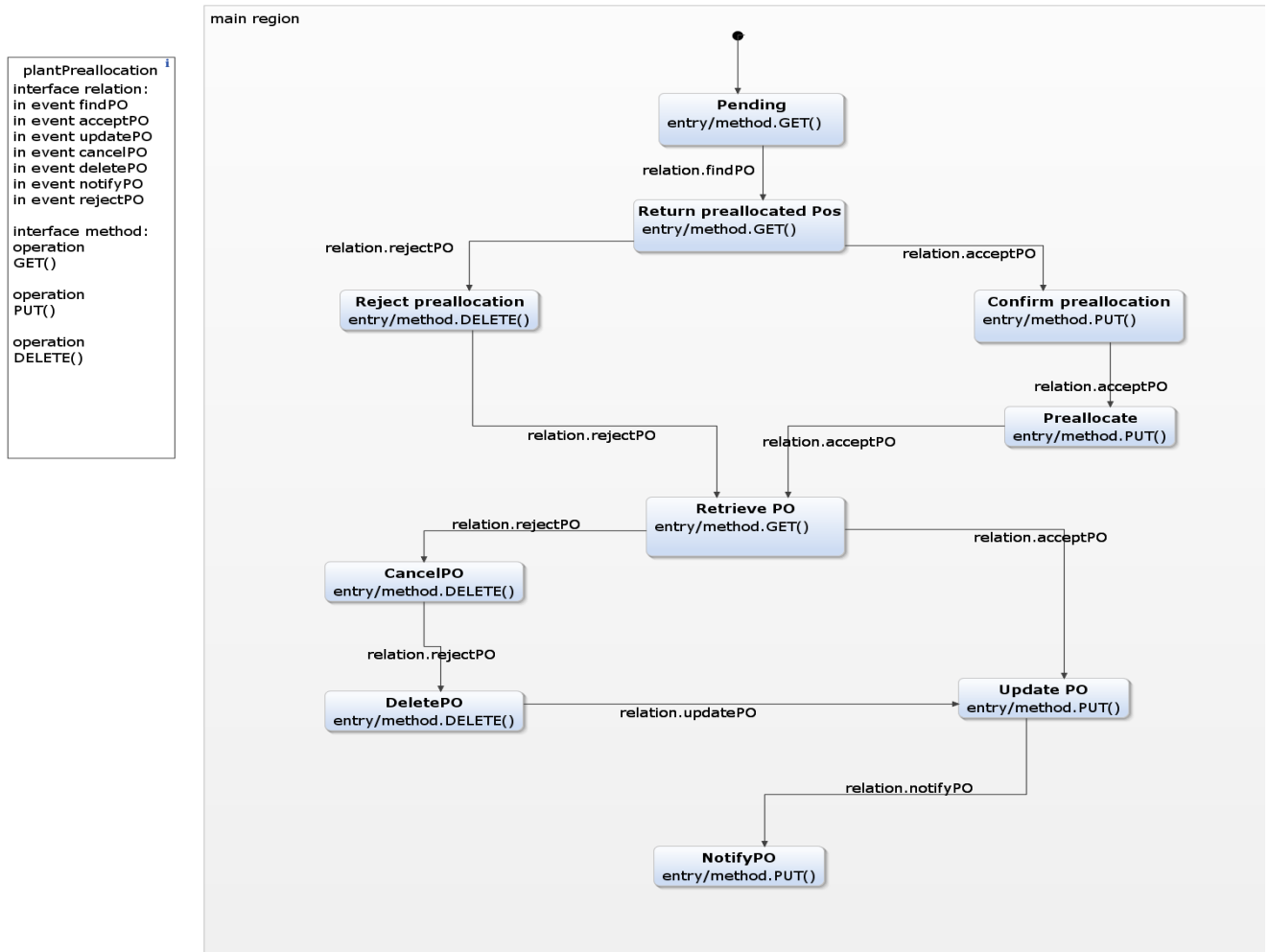
HOMEWORK – 2

Plant pre-allocation that can be confirmed or rejected by the employee:

1. Operations implied by the sequence diagram that should be mapped into REST interactions:

- Find pre-allocated PO.
- Return pre-allocation PO with (HTTP status 200).
- Confirm pre-allocation.
- Retrieve PO.
- Update PO.
- Notify successful confirmation with (HTTP status 200).
- Reject pre-allocation
- Cancel and delete plant reservation.

2. State model associated with the resource purchase order:



3. REST API summarization:

HTTP Verb	URI template	Relation	Current State	New State	Comments
GET	/api/allocate/plants	findPO	Pending	Return preallocated POs	Query pending lists
PUT	/api/allocate/orders/{id}/confirm	acceptPO	Confirm preallocation	Pre-allocate	By minimum one plant available.
GET	/api/allocate/orders/{id}/confirm	acceptPO	Retrieve PO	Retrieve PO	With a new status
PUT	/api/allocate/orders/{id}/confirm	acceptPO	Updating retrieved PO	Updated PO (OPEN)	With a new status
PUT	/api/allocate/orders/{id}/confirm	notifyPO	Updated PO (OPEN)	Notify success confirmation	Use (HTTP status 200)
DELETE	/api/allocate/orders/{id}/confirm	rejectPO	Reject preallocation	Rejected	No available plant found
GET	/api/allocate/orders/{id}/confirm	rejectPO	Rejected	Retrieve PO	
DELETE	/api/allocate/orders/{id}/confirm	rejectPO	Cancelling reservation	Deleting reservation	
PUT	/api/allocate/orders/{id}/confirm	updatePO	update PO	Update Rejected PO	
PUT	/api/allocate/orders/{id}/confirm	notifyPO	Updated PO	Notify successful deallocation	Use (HTTP status 200)