

HOMWORK – 2

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

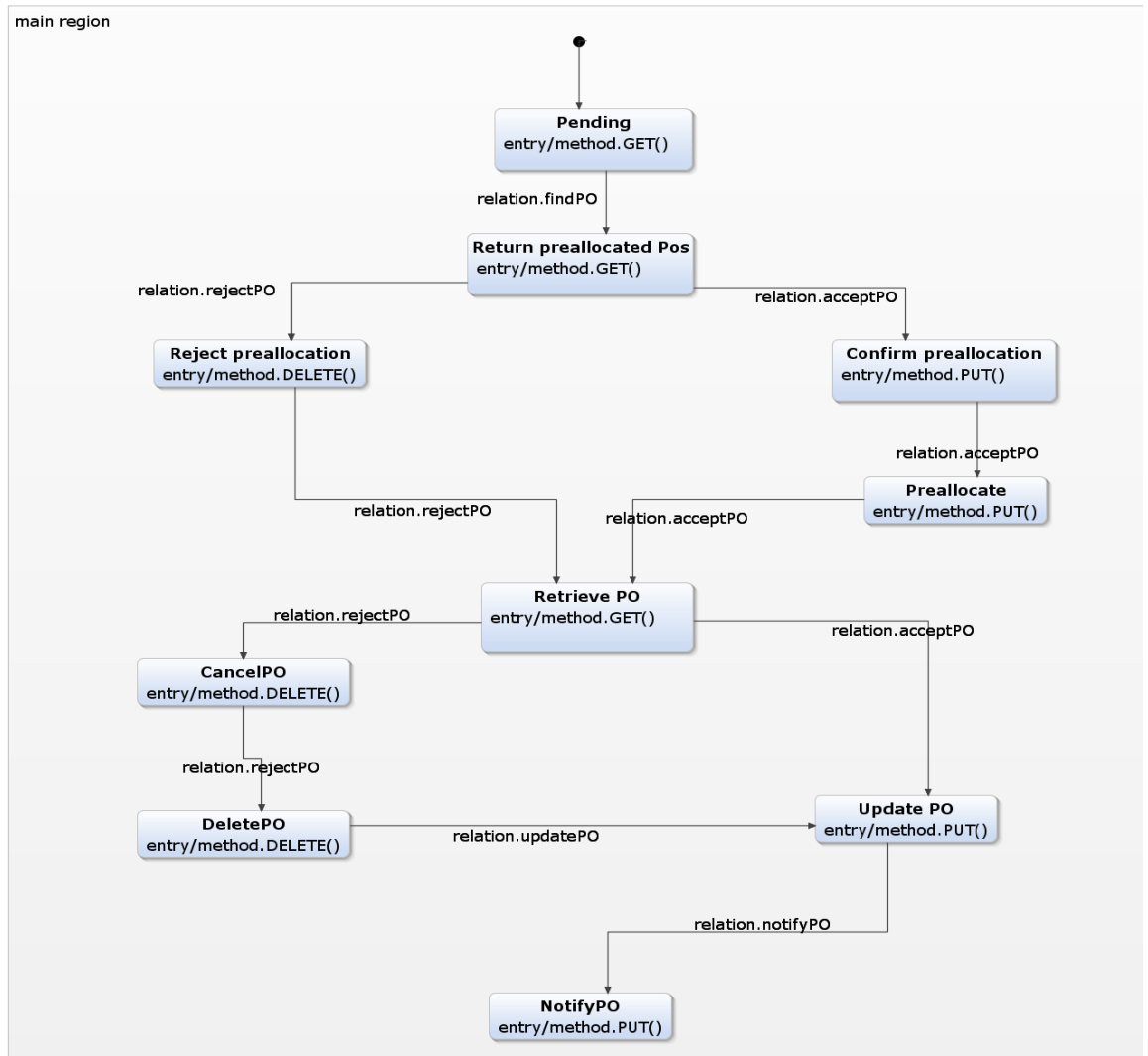
- Operations implied by the sequence diagram that should be mapped into REST interactions:
 - Find available plants.
 - Create PO.
 - Find pre-allocated PO.
 - Confirm pre-allocation.
 - Reject pre-allocation.
 - Notify confirmation with (HTTP status 200).
- State model associated with the resource purchase order:

```
plantPreallocation
interface relation:
  in event findPO
  in event acceptPO
  in event updatePO
  in event cancelPO
  in event deletePO
  in event notifyPO
  in event rejectPO

interface method:
  operation
  GET()

operation
  PUT()

operation
  DELETE()
```



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)