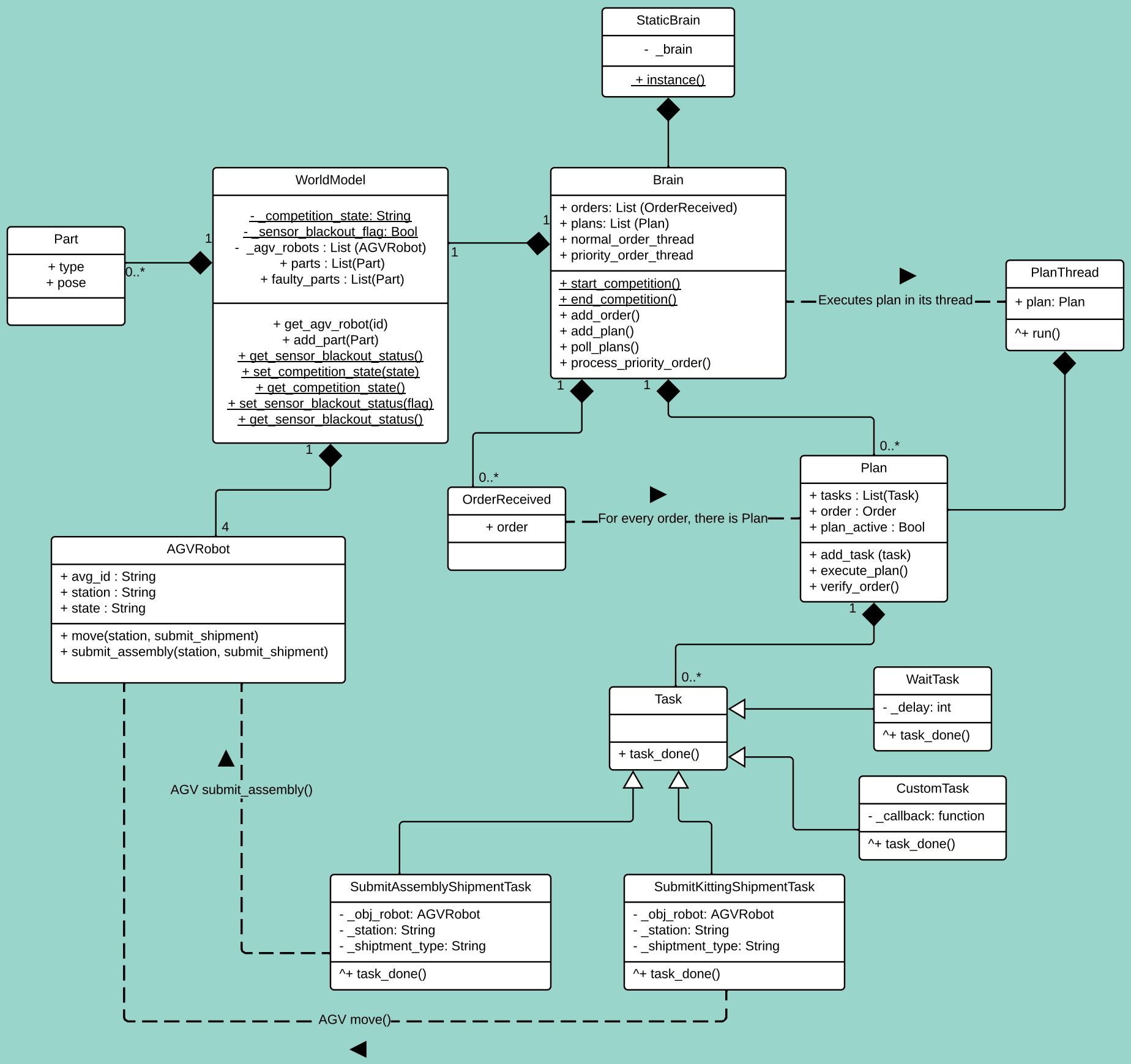
StaticBrain
- _brain
+ instance()
WorldModel
- _competition_state: String
- _sensor_blackout_flag: Bool
- _agv_robots : List (AGVRobot)
+ parts : List(Part)
+ faulty_parts : List(Part)
+ get_agv_robot(id)
+ add_part(Part)
+ get_sensor_blackout_status()
+ set_competition_state(state)
+ get_competition_state()
+ set_sensor_blackout_status(flag)
+ get_sensor_blackout_status()
Part
+ type
+ pose
Brain
+ orders: List (OrderReceived)
+ plans: List (Plan)
+ normal_order_thread
+ priority_order_thread
+ start_competition()
+ end_competition()
+ add_order()
+ add_plan()
+ poll_plans()
+ process_priority_order()
Executes plan in its thread
PlanThread
+ plan: Plan
^+ run()
OrderReceived
+ order
For every order, there is Plan
Plan
+ tasks : List(Task)
+ order : Order
+ plan_active : Bool
+ add_task (task)
+ execute_plan()
+ verify_order()
AGVRobot
+ avg_id : String
+ station : String
+ state : String
+ move(station, submit_shipment)
+ submit_assembly(station, submit_shipment)
Task
+ task_done()
WaitTask
- _delay: int
^+ task_done()
CustomTask
- _callback: function
^+ task_done()
SubmitAssemblyShipmentTask
- _obj_robot: AGVRobot
- _station: String
- _shiptment_type: String
^+ task_done()
SubmitKittingShipmentTask
- _obj_robot: AGVRobot
- _station: String
- _shiptment_type: String
^+ task_done()
AGV submit_assembly()
AGV move()
1
0..*
1
1
1
1
1
0..*
0..*
4
1
0..*