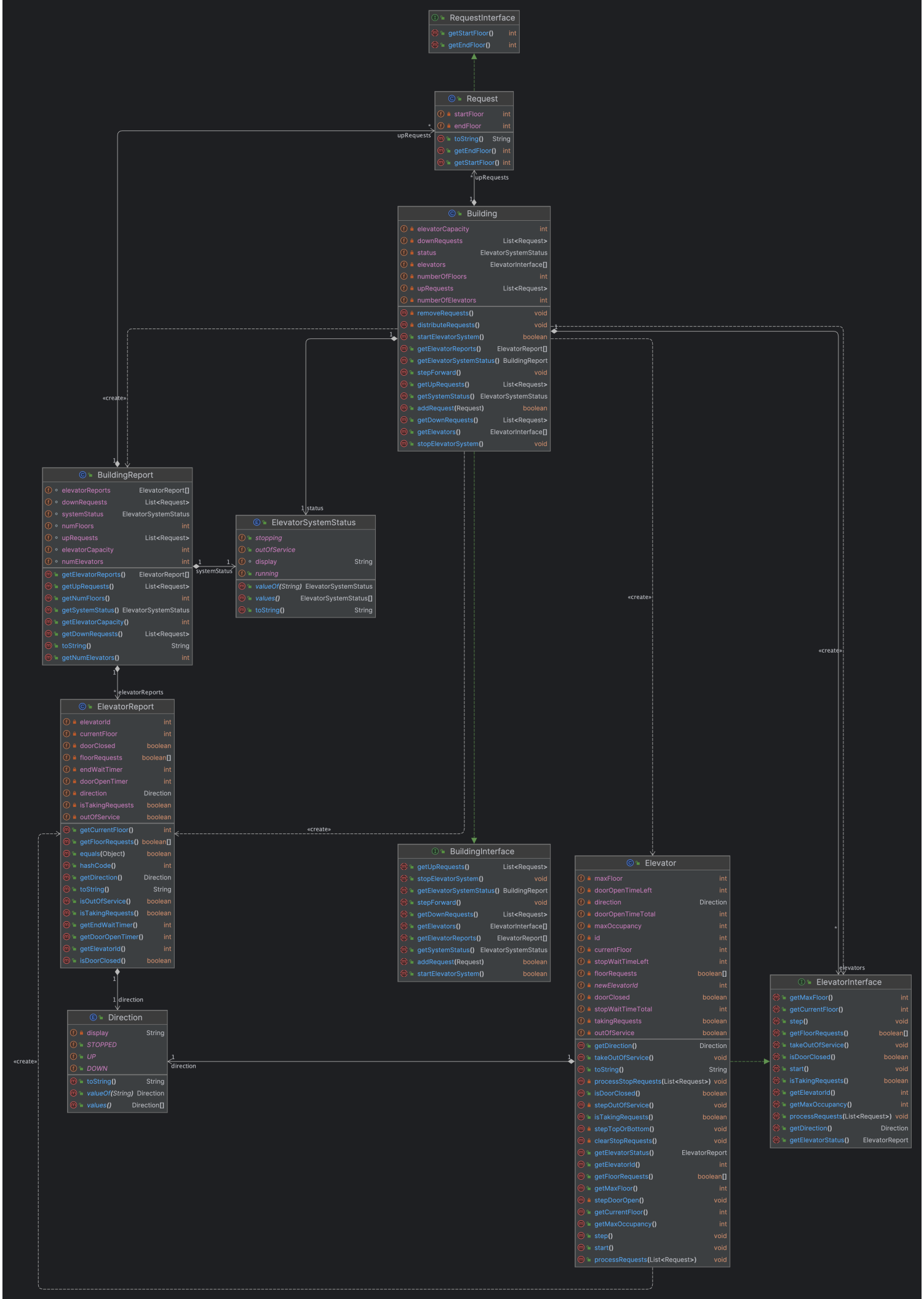
RequestInterface
getStartFloor() int
getEndFloor() int
Request
startFloor int
endFloor int
toString() String
getEndFloor() int
getStartFloor() int
upRequests
upRequests
Building
elevatorCapacity int
downRequests List<Request>
status ElevatorSystemStatus
elevators ElevatorInterface[]
numberOfFloors int
upRequests List<Request>
numberOfElevators int
removeRequests() void
distributeRequests() void
startElevatorSystem() boolean
getElevatorReports() ElevatorReport[]
getElevatorSystemStatus() BuildingReport
stepForward() void
getUpRequests() List<Request>
getSystemStatus() ElevatorSystemStatus
addRequest(Request) boolean
getDownRequests() List<Request>
getElevators() ElevatorInterface[]
stopElevatorSystem() void
«create»
BuildingReport
elevatorReports ElevatorReport[]
downRequests List<Request>
systemStatus ElevatorSystemStatus
numFloors int
upRequests List<Request>
elevatorCapacity int
numElevators int
getElevatorReports() ElevatorReport[]
getUpRequests() List<Request>
getNumFloors() int
getSystemStatus() ElevatorSystemStatus
getElevatorCapacity() int
getDownRequests() List<Request>
toString() String
getNumElevators() int
status
ElevatorSystemStatus
stopping
outOfService
display String
running
valueOf(String) ElevatorSystemStatus
values() ElevatorSystemStatus[]
toString() String
systemStatus
«create»
«create»
elevatorReports
ElevatorReport
elevatorId int
currentFloor int
doorClosed boolean
floorRequests boolean[]
endWaitTimer int
doorOpenTimer int
direction Direction
isTakingRequests boolean
outOfService boolean
getCurrentFloor() int
getFloorRequests() boolean[]
equals(Object) boolean
hashCode() int
getDirection() Direction
toString() String
isOutOfService() boolean
isTakingRequests() boolean
getEndWaitTimer() int
getDoorOpenTimer() int
getElevatorId() int
isDoorClosed() boolean
«create»
BuildingInterface
getUpRequests() List<Request>
stopElevatorSystem() void
getElevatorSystemStatus() BuildingReport
stepForward() void
getDownRequests() List<Request>
getElevators() ElevatorInterface[]
getElevatorReports() ElevatorReport[]
getSystemStatus() ElevatorSystemStatus
addRequest(Request) boolean
startElevatorSystem() boolean
Elevator
maxFloor int
doorOpenTimeLeft int
direction Direction
doorOpenTimeTotal int
maxOccupancy int
id int
currentFloor int
stopWaitTimeLeft int
floorRequests boolean[]
newElevatorId int
doorClosed boolean
stopWaitTimeTotal int
takingRequests boolean
outOfService boolean
getDirection() Direction
takeOutOfService() void
toString() String
processStopRequests(List<Request>) void
isDoorClosed() boolean
stepOutOfService() void
isTakingRequests() boolean
stepTopOrBottom() void
clearStopRequests() void
getElevatorStatus() ElevatorReport
getElevatorId() int
getFloorRequests() boolean[]
getMaxFloor() int
stepDoorOpen() void
getCurrentFloor() int
getMaxOccupancy() int
step() void
start() void
processRequests(List<Request>) void
elevators
ElevatorInterface
getMaxFloor() int
getCurrentFloor() int
step() void
getFloorRequests() boolean[]
takeOutOfService() void
isDoorClosed() boolean
start() void
isTakingRequests() boolean
getElevatorId() int
getMaxOccupancy() int
processRequests(List<Request>) void
getDirection() Direction
getElevatorStatus() ElevatorReport
direction
Direction
display String
STOPPED
UP
DOWN
toString() String
valueOf(String) Direction
values() Direction[]
«create»
direction