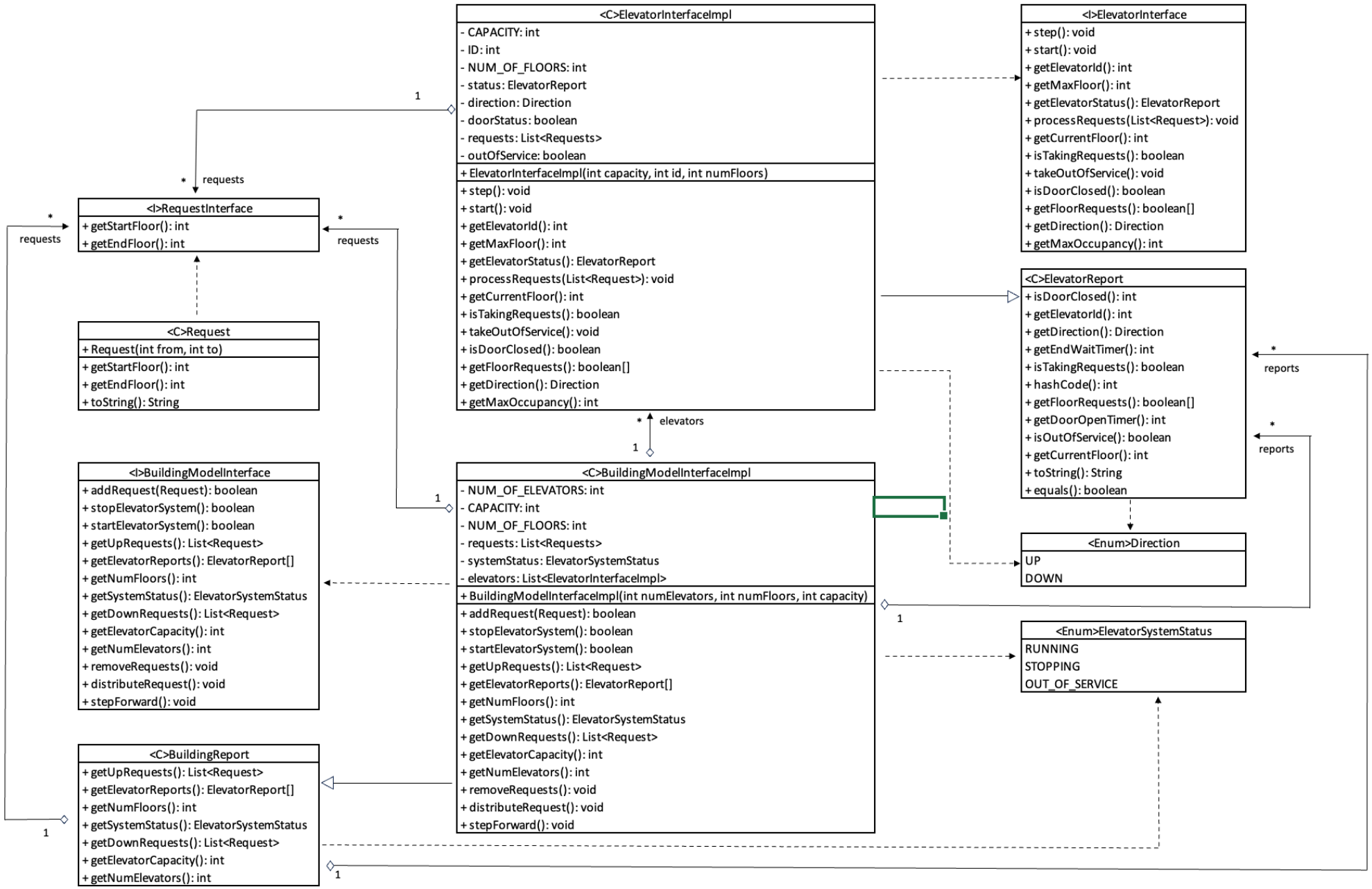
<C>ElevatorInterfaceImpl
- CAPACITY: int
- ID: int
- NUM_OF_FLOORS: int
- status: ElevatorReport
- direction: Direction
- doorStatus: boolean
- requests: List<Requests>
- outOfService: boolean
+ ElevatorInterfaceImpl(int capacity, int id, int numFloors)
+ step(): void
+ start(): void
+ getElevatorId(): int
+ getMaxFloor(): int
+ getElevatorStatus(): ElevatorReport
+ processRequests(List<Request>): void
+ getCurrentFloor(): int
+ isTakingRequests(): boolean
+ takeOutOfService(): void
+ isDoorClosed(): boolean
+ getFloorRequests(): boolean[]
+ getDirection(): Direction
+ getMaxOccupancy(): int
<I>ElevatorInterface
+ step(): void
+ start(): void
+ getElevatorId(): int
+ getMaxFloor(): int
+ getElevatorStatus(): ElevatorReport
+ processRequests(List<Request>): void
+ getCurrentFloor(): int
+ isTakingRequests(): boolean
+ takeOutOfService(): void
+ isDoorClosed(): boolean
+ getFloorRequests(): boolean[]
+ getDirection(): Direction
+ getMaxOccupancy(): int
<I>RequestInterface
+ getStartFloor(): int
+ getEndFloor(): int
<C>Request
+ Request(int from, int to)
+ getStartFloor(): int
+ getEndFloor(): int
+ toString(): String
<C>ElevatorReport
+ isDoorClosed(): int
+ getElevatorId(): int
+ getDirection(): Direction
+ getEndWaitTimer(): int
+ isTakingRequests(): boolean
+ hashCode(): int
+ getFloorRequests(): boolean[]
+ getDoorOpenTimer(): int
+ isOutOfService(): boolean
+ getCurrentFloor(): int
+ toString(): String
+ equals(): boolean
<Enum>Direction
UP
DOWN
<Enum>ElevatorSystemStatus
RUNNING
STOPPING
OUT_OF_SERVICE
<I>BuildingModelInterface
+ addRequest(Request): boolean
+ stopElevatorSystem(): boolean
+ startElevatorSystem(): boolean
+ getUpRequests(): List<Request>
+ getElevatorReports(): ElevatorReport[]
+ getNumFloors(): int
+ getSystemStatus(): ElevatorSystemStatus
+ getDownRequests(): List<Request>
+ getElevatorCapacity(): int
+ getNumElevators(): int
+ removeRequests(): void
+ distributeRequest(): void
+ stepForward(): void
<C>BuildingModelInterfaceImpl
- NUM_OF_ELEVATORS: int
- CAPACITY: int
- NUM_OF_FLOORS: int
- requests: List<Requests>
- systemStatus: ElevatorSystemStatus
- elevators: List<ElevatorInterfaceImpl>
+ BuildingModelInterfaceImpl(int numElevators, int numFloors, int capacity)
+ addRequest(Request): boolean
+ stopElevatorSystem(): boolean
+ startElevatorSystem(): boolean
+ getUpRequests(): List<Request>
+ getElevatorReports(): ElevatorReport[]
+ getNumFloors(): int
+ getSystemStatus(): ElevatorSystemStatus
+ getDownRequests(): List<Request>
+ getElevatorCapacity(): int
+ getNumElevators(): int
+ removeRequests(): void
+ distributeRequest(): void
+ stepForward(): void
<C>BuildingReport
+ getUpRequests(): List<Request>
+ getElevatorReports(): ElevatorReport[]
+ getNumFloors(): int
+ getSystemStatus(): ElevatorSystemStatus
+ getDownRequests(): List<Request>
+ getElevatorCapacity(): int
+ getNumElevators(): int
1
*
requests
*
requests
*
requests
1
*
elevators
1
1
*
reports
*
reports
1
1
1