<<enumeration>>
Direction
UP
DOWN
STOPPED

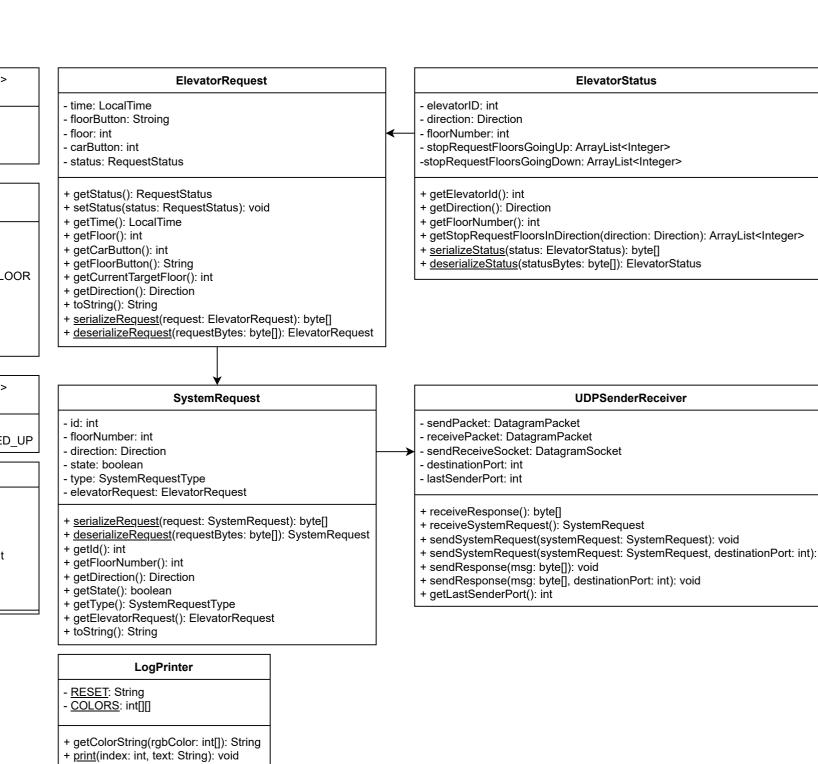| <<enumeration>> |
| --- |
| SystemRequestType |
| REGISTER_ELEVATOR_CONTROLLER |
| NEW_PRIMARY_REQUEST |
| IS_STOP_REQUIRED |
| PROCESS_REQUESTS_AT_CURRENT_FI |
| PROCESS_COMPLETED_REQUESTS |
| SET_FLOOR_DIRECTION_LAMPS |
| SET_FLOOR_LAMPS |
| ADD_NEW_REQUEST |
| STATUS_REQUEST |

<<enumeration>>
RequestStatus
PENDING
PASSENGER_PICKE

Constants
+ NUMBER_OF_FLOORS: int
+ NUMBER_OF_ELEVATORS: int
+ SCHEDULER_PORT: int
+ SCHEDULER_PORT_2: int
+ FLOOR_CONTROLLER_PORT: in
+ BASE_MOVE_TIME: int
+ INCREMENTAL_MOVE_TIME: int
+ LOADING_TIME: int

ElevatorRequest

- time: LocalTime
- floorButton: Stroing
- floor: int
- carButton: int
- status: RequestStatus

+ getStatus(): RequestStatus
+ setStatus(status: RequestStatus): void
+ getTime(): LocalTime
+ getFloor(): int
+ getCarButton(): int
+ getFloorButton(): String
+ getCurrentTargetFloor(): int
+ getDirection(): Direction
+ toString(): String
+ serializeRequest(request: ElevatorRequest): byte[]
+ deserializeRequest(requestBytes: byte[]): ElevatorRequest

ElevatorStatus

- elevatorID: int
- direction: Direction
- floorNumber: int
- stopRequestFloorsGoingUp: ArrayList<Integer>
- stopRequestFloorsGoingDown: ArrayList<Integer>

+ getElevatorId(): int
+ getDirection(): Direction
+ getFloorNumber(): int
+ getStopRequestFloorsInDirection(direction: Direction): ArrayList<Integer>
+ serializeStatus(status: ElevatorStatus): byte[]
+ deserializeStatus(statusBytes: byte[]): ElevatorStatus

SystemRequest

- id: int
- floorNumber: int
- direction: Direction
- state: boolean
- type: SystemRequestType
- elevatorRequest: ElevatorRequest

+ serializeRequest(request: SystemRequest): byte[]
+ deserializeRequest(requestBytes: byte[]): SystemRequest
+ getId(): int
+ getFloorNumber(): int
+ getDirection(): Direction
+ getState(): boolean
+ getType(): SystemRequestType
+ getElevatorRequest(): ElevatorRequest
+ toString(): String

UDPSenderReceiver

- sendPacket: DatagramPacket
- receivePacket: DatagramPacket
- sendReceiveSocket: DatagramSocket
- destinationPort: int
- lastSenderPort: int

+ receiveResponse(): byte[]
+ receiveSystemRequest(): SystemRequest
+ sendSystemRequest(systemRequest: SystemRequest): void
+ sendSystemRequest(systemRequest: SystemRequest, destinationPort: int):
+ sendResponse(msg: byte[]): void
+ sendResponse(msg: byte[], destinationPort: int): void
+ getLastSenderPort(): int

LogPrinter

- RESET: String
- COLORS: int[][]

+ getColorString(rgbColor: int[]): String
+ print(index: int, text: String): void

void	