ElevatorRequest ElevatorStatus - time: LocalTime - elevatorID: int - floorButton: Stroing - direction: Direction - floorNumber: int - floor: int - carButton: int - stopRequestFloorsGoingUp: ArrayList<Integer> - status: RequestStatus -stopRequestFloorsGoingDown: ArrayList<Integer> + getStatus(): RequestStatus + getElevatorId(): int + setStatus(status: RequestStatus): void + getDirection(): Direction + getFloorNumber(): int + getTime(): LocalTime + getFloor(): int + getStopRequestFloorsInDirection(direction: Direction): ArrayList<Integer> + getCarButton(): int + serializeStatus(status: ElevatorStatus): byte[] + deserializeStatus(statusBytes: byte[]): ElevatorStatus + getFloorButton(): String + getCurrentTargetFloor(): int + getDirection(): Direction + toString(): String + serializeRequest(request: ElevatorRequest): byte[] + deserializeRequest(requestBytes: byte[]): ElevatorRequest **SystemRequest UDPSenderReceiver** - id: int - sendPacket: DatagramPacket - floorNumber: int - receivePacket: DatagramPacket - direction: Direction - sendReceiveSocket: DatagramSocket - state: boolean destinationPort: int - type: SystemRequestType - lastSenderPort: int - elevatorRequest: ElevatorRequest - elevatorRequests: ArrayList<ElevatorRequest> + receiveResponse(): byte[] + receiveSvstemRequest(): SvstemRequest + serializeRequest(request: SystemRequest): byte[] + sendSvstemRequest(svstemRequest: SvstemRequest): void + deserializeRequest(requestBytes: byte[]): SystemRequest + sendSystemRequest(systemRequest: SystemRequest, destinationPort: int): void + getId(): int + sendResponse(msg: byte[]): void + getFloorNumber(): int + sendResponse(msg: byte[], destinationPort: int): void + getDirection(): Direction + getLastSenderPort(): int + getState(): boolean + getType(): SystemRequestType + getElevatorRequest(): ElevatorRequest + toString(): String + getElevatorRequests(): ArrayList<ElevatorRequest>

LogPrinter

- RESET: String
- COLORS: int[][]
- + getColorString(rgbColor: int[]): String
- + print(index: int, text: String): void
- + <u>printWarning</u>(text: String): void
- + <u>printError</u>(text: String): void
- + getTimestamp(): void

Constants

- + NUMBER_OF_FLOORS: int
- + NUMBER OF ELEVATORS: int
- + SCHEDULER PORT: int
- + <u>SCHEDULER_PORT_2</u>: int
- + FLOOR CONTROLLER PORT: int
- + BASE_MOVE_TIME: int
- + INCREMENTAL_MOVE_TIME: int
- + LOADING TIME: int

<<enumeration>>
Direction

UP DOWN STOPPED

> <<enumeration>> RequestStatus

PENDING PASSENGER PICKED UP

<<enumeration>>
FaultType

NO_FAULT DOOR_FAULT FLOOR_TIMER_FAULT <<enumeration>>
SystemRequestType

REGISTER_ELEVATOR_CONTROLLER
NEW_PRIMARY_REQUEST
IS_STOP_REQUIRED
PROCESS_REQUESTS_AT_CURRENT_FLOOR
PROCESS_COMPLETED_REQUESTS
SET_FLOOR_DIRECTION_LAMPS
SET_FLOOR_LAMPS
ADD_NEW_REQUEST
STATUS_REQUEST
ELEVATOR_SHUTDOWN_REQUEST