java.lang.Thread

Main

- logger: Logger

+ main(args: String[]): void

Use

Elevator

- logger: Logger

- id: int
- requestsQueue: List<ElevatorRequest>
- scheduler: Scheduler

+ Elevator(id: int, scheduler: Scheduler)
+ getElevatorId(): int
+ serveRequest(): void
+ run(): void

<<Interface>>
Runnable

+ run(): void

Scheduler

- logger: Logger

- requestsQueue: List<ElevatorRequest>

+ putRequest(elevatorRequest: ElevatorRequest): void
+ dispatchRequest(): ElevatorRequest
+ run(): void

Exception

ElevatorReqParamException

+ ElevatorReqParaException(errorMessage: String)

ElevatorRequest

- timestamp: Timestamp
- sourceFloor: Integer
- direction: Direction
- destinationFloor: Integer

+ ElevatorRequest(timestamp: Timestamp,
            sourceFloor: Integer,
            direction: Direction,
            destinationFloor: Integer)
+ getTimestamp(): Timestamp
+ getSourceFloor(): Integer
+ getDirection(): Direction
+ getDestinationFloor(): Integer
+ toString(): String
+ equals(obj: Object): boolean

Floor

- logger: Logger

- floorNumber: int
- scheduler: Scheduler
- parser: Parser

+ Floor(floorNumber: int, scheduler: Scheduler, parser: Parser)
+ getFloorNumber(): int
+ requestElevator(request: ElevatorRequest): void
+ run(): void

Parser

- logger: Logger

- input: FileReader
- reader: BufferedReader
- lineEntry: String
- elevatorRequestList: ArrayList<ElevatorRequest>

+ Parser(filename: String)
+ requestParser(): ArrayList<ElevatorRequest>

<<Enumeration>>
Direction

UP
DOWN