SYSC3303_ProjectIteration1_UMLClassDiagram

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<<interface>>
Runnable

+run(): void

ElevatorSystem

+main(args: String[]): void

Floor

-scheduler: Scheduler
-floorInfo: ElevatorMessage

+Floor(scheduler:
Scheduler)
+run(): void
+readFile():
ElevatorMessage

Elevator

+INITIAL_FLOOR: final int
- scheduler : Scheduler
-direction: ElevatorDirection
-floor: int

+Elavator(scheduler: Scheduler)
+run(): void

Scheduler

-fromFloor: ArrayList<ElevatorMessage>
-toFloor: ArrayList<ElevatorMessage>
-fromElevator: ArrayList<ElevatorMessage>
-toElevator: ArrayList<ElevatorMessage

+Scheduler()
+sendEvent(floorInfo: ElevatorMessage): synchronized void
+getEvent(): synchronized void
+receiveEvent(): synchronized void
-handleFloorMessages(): synchronized void
-handleElevatorMessages(): synchronized void
+run(): void

ElevatorMessage

-time: String
-floor: int
-button: int
-dir: String
-direction: ElevatorDirection

+ElevatorMessage(time: String, floor: int, dir: String, button: int)
+getTime(): String
+getFloor(): int
+getButton(): int
+convertDirection(dir: String): ElevatorDirection
+getDirection(): ElevatorDirection
+toString(): String

«enumeration»
ElevatorDirection

UP
DOWN
STOP