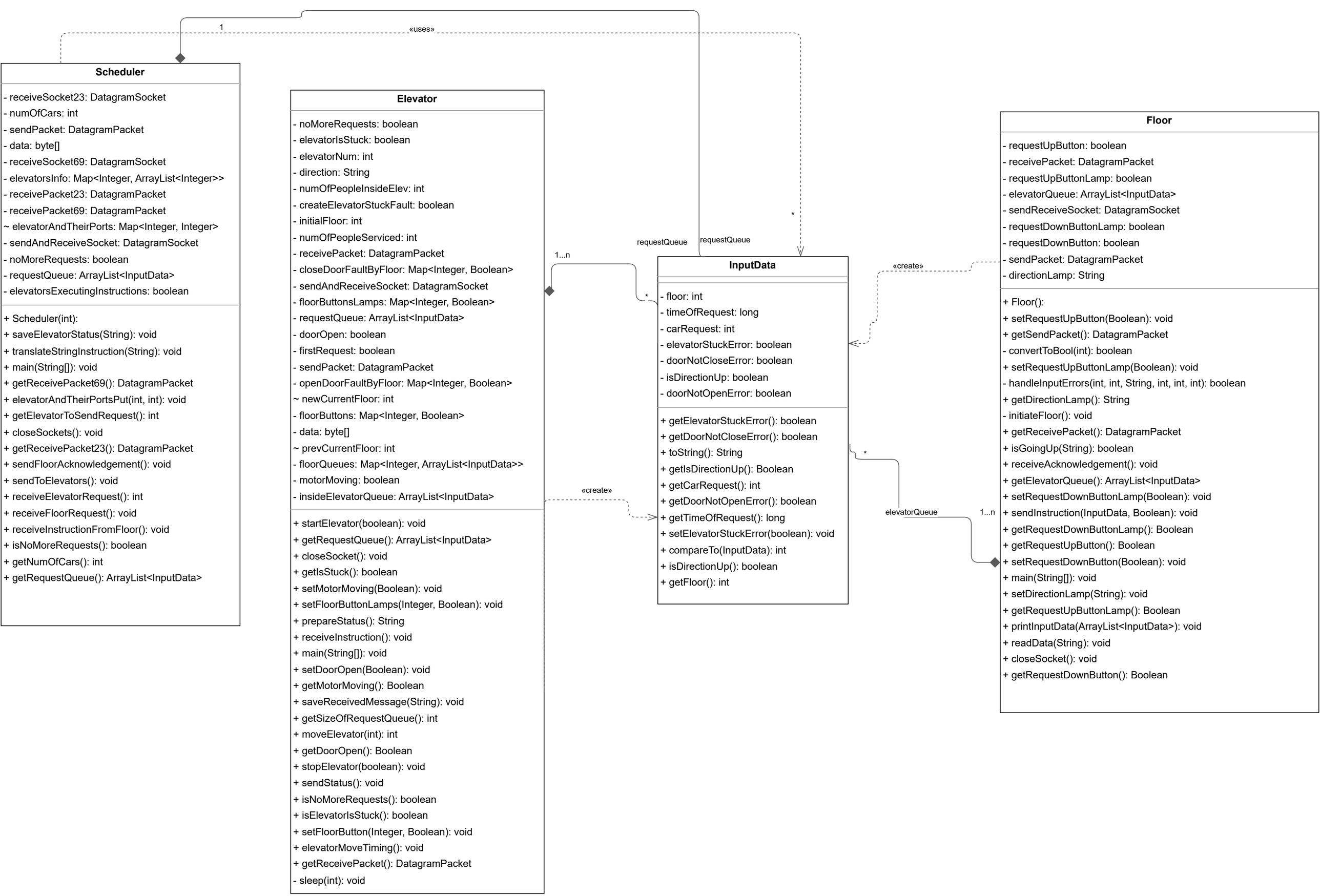
1
«uses»
Scheduler
- receiveSocket23: DatagramSocket
- numOfCars: int
- sendPacket: DatagramPacket
- data: byte[]
- receiveSocket69: DatagramSocket
- elevatorsInfo: Map<Integer, ArrayList<Integer>>
- receivePacket23: DatagramPacket
- receivePacket69: DatagramPacket
~ elevatorAndTheirPorts: Map<Integer, Integer>
- sendAndReceiveSocket: DatagramSocket
- noMoreRequests: boolean
- requestQueue: ArrayList<InputData>
- elevatorsExecutingInstructions: boolean
+ Scheduler(int):
+ saveElevatorStatus(String): void
+ translateStringInstruction(String): void
+ main(String[]): void
+ getReceivePacket69(): DatagramPacket
+ elevatorAndTheirPortsPut(int, int): void
+ getElevatorToSendRequest(): int
+ closeSockets(): void
+ getReceivePacket23(): DatagramPacket
+ sendFloorAcknowledgement(): void
+ sendToElevators(): void
+ receiveElevatorRequest(): int
+ receiveFloorRequest(): void
+ receiveInstructionFromFloor(): void
+ isNoMoreRequests(): boolean
+ getNumOfCars(): int
+ getRequestQueue(): ArrayList<InputData>
Elevator
- noMoreRequests: boolean
- elevatorIsStuck: boolean
- elevatorNum: int
- direction: String
- numOfPeopleInsideElev: int
- createElevatorStuckFault: boolean
- initialFloor: int
- numOfPeopleServiced: int
- receivePacket: DatagramPacket
- closeDoorFaultByFloor: Map<Integer, Boolean>
- sendAndReceiveSocket: DatagramSocket
- floorButtonsLamps: Map<Integer, Boolean>
- requestQueue: ArrayList<InputData>
- doorOpen: boolean
- firstRequest: boolean
- sendPacket: DatagramPacket
- openDoorFaultByFloor: Map<Integer, Boolean>
~ newCurrentFloor: int
- floorButtons: Map<Integer, Boolean>
- data: byte[]
~ prevCurrentFloor: int
- floorQueues: Map<Integer, ArrayList<InputData>>
- motorMoving: boolean
- insideElevatorQueue: ArrayList<InputData>
+ startElevator(boolean): void
+ getRequestQueue(): ArrayList<InputData>
+ closeSocket(): void
+ getIsStuck(): boolean
+ setMotorMoving(Boolean): void
+ setFloorButtonLamps(Integer, Boolean): void
+ prepareStatus(): String
+ receiveInstruction(): void
+ main(String[]): void
+ setDoorOpen(Boolean): void
+ getMotorMoving(): Boolean
+ saveReceivedMessage(String): void
+ getSizeOfRequestQueue(): int
+ moveElevator(int): int
+ getDoorOpen(): Boolean
+ stopElevator(boolean): void
+ sendStatus(): void
+ isNoMoreRequests(): boolean
+ isElevatorIsStuck(): boolean
+ setFloorButton(Integer, Boolean): void
+ elevatorMoveTiming(): void
+ getReceivePacket(): DatagramPacket
- sleep(int): void
1...n
*
requestQueue
requestQueue
*
«create»
InputData
- floor: int
- timeOfRequest: long
- carRequest: int
- elevatorStuckError: boolean
- doorNotCloseError: boolean
- isDirectionUp: boolean
- doorNotOpenError: boolean
+ getElevatorStuckError(): boolean
+ getDoorNotCloseError(): boolean
+ toString(): String
+ getIsDirectionUp(): Boolean
+ getCarRequest(): int
+ getDoorNotOpenError(): boolean
+ getTimeOfRequest(): long
+ setElevatorStuckError(boolean): void
+ compareTo(InputData): int
+ isDirectionUp(): boolean
+ getFloor(): int
«create»
*
*
elevatorQueue
1...n
Floor
- requestUpButton: boolean
- receivePacket: DatagramPacket
- requestUpButtonLamp: boolean
- elevatorQueue: ArrayList<InputData>
- sendReceiveSocket: DatagramSocket
- requestDownButtonLamp: boolean
- requestDownButton: boolean
- sendPacket: DatagramPacket
- directionLamp: String
+ Floor():
+ setRequestUpButton(Boolean): void
+ getSendPacket(): DatagramPacket
- convertToBool(int): boolean
+ setRequestUpButtonLamp(Boolean): void
- handleInputErrors(int, int, String, int, int, int): boolean
+ getDirectionLamp(): String
- initiateFloor(): void
+ getReceivePacket(): DatagramPacket
+ isGoingUp(String): boolean
+ receiveAcknowledgement(): void
+ getElevatorQueue(): ArrayList<InputData>
+ setRequestDownButtonLamp(Boolean): void
+ sendInstruction(InputData, Boolean): void
+ getRequestDownButtonLamp(): Boolean
+ getRequestUpButton(): Boolean
+ setRequestDownButton(Boolean): void
+ main(String[]): void
+ setDirectionLamp(String): void
+ getRequestUpButtonLamp(): Boolean
+ printInputData(ArrayList<InputData>): void
+ readData(String): void
+ closeSocket(): void
+ getRequestDownButton(): Boolean