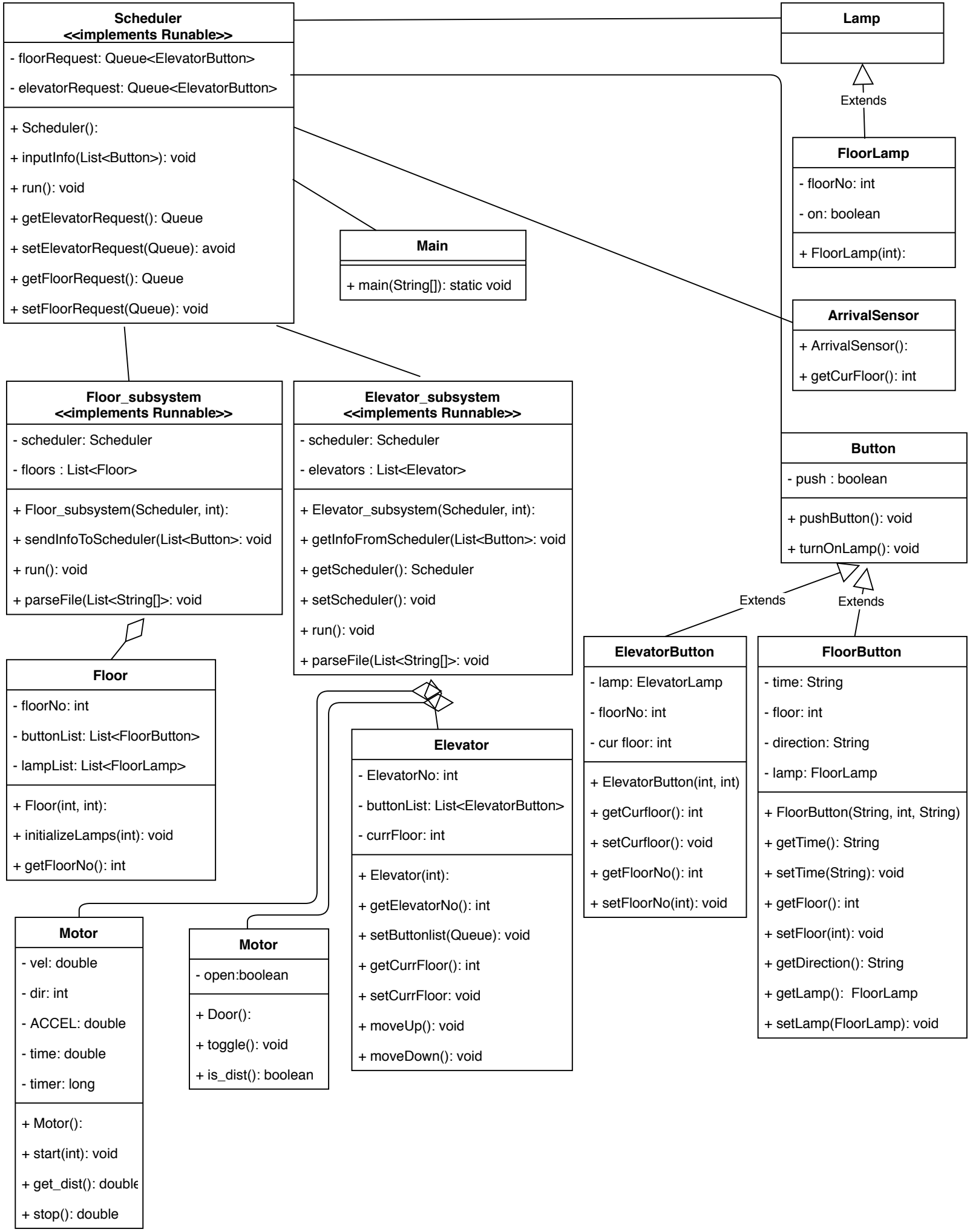
Scheduler
<<implements Runable>>
- floorRequest: Queue<ElevatorButton>
- elevatorRequest: Queue<ElevatorButton>
+ Scheduler():
+ inputInfo(List<Button>): void
+ run(): void
+ getElevatorRequest(): Queue
+ setElevatorRequest(Queue): avoid
+ getFloorRequest(): Queue
+ setFloorRequest(Queue): void
Lamp
Extends
FloorLamp
- floorNo: int
- on: boolean
+ FloorLamp(int):
Main
+ main(String[]): static void
ArrivalSensor
+ ArrivalSensor():
+ getCurFloor(): int
Floor_subsystem
<<implements Runnable>>
- scheduler: Scheduler
- floors : List<Floor>
+ Floor_subsystem(Scheduler, int):
+ sendInfoToScheduler(List<Button>: void
+ run(): void
+ parseFile(List<String[]>: void
Elevator_subsystem
<<implements Runnable>>
- scheduler: Scheduler
- elevators : List<Elevator>
+ Elevator_subsystem(Scheduler, int):
+ getInfoFromScheduler(List<Button>: void
+ getScheduler(): Scheduler
+ setScheduler(): void
+ run(): void
+ parseFile(List<String[]>: void
Button
- push : boolean
+ pushButton(): void
+ turnOnLamp(): void
Extends
Extends
Floor
- floorNo: int
- buttonList: List<FloorButton>
- lampList: List<FloorLamp>
+ Floor(int, int):
+ initializeLamps(int): void
+ getFloorNo(): int
ElevatorButton
- lamp: ElevatorLamp
- floorNo: int
- cur floor: int
+ ElevatorButton(int, int)
+ getCurfloor(): int
+ setCurfloor(): void
+ getFloorNo(): int
+ setFloorNo(int): void
FloorButton
- time: String
- floor: int
- direction: String
- lamp: FloorLamp
+ FloorButton(String, int, String)
+ getTime(): String
+ setTime(String): void
+ getFloor(): int
+ setFloor(int): void
+ getDirection(): String
+ getLamp(): FloorLamp
+ setLamp(FloorLamp): void
Elevator
- ElevatorNo: int
- buttonList: List<ElevatorButton>
- currFloor: int
+ Elevator(int):
+ getElevatorNo(): int
+ setButtonlist(Queue): void
+ getCurrFloor(): int
+ setCurrFloor: void
+ moveUp(): void
+ moveDown(): void
Motor
- vel: double
- dir: int
- ACCEL: double
- time: double
- timer: long
+ Motor():
+ start(int): void
+ get_dist(): double
+ stop(): double
Motor
- open:boolean
+ Door():
+ toggle(): void
+ is_dist(): boolean