## ControlInterface

- activeUsers: SortedList
- myTime: TimeDate

+ ControlInterface()
+ ~ControlInterface()
+ checkin(currentUser: User): void
+ checkout(currentUser: User): void
+ getActiveUsers(): SortedList
+ openDoor(currentUser: User): void
+ createUser(): bool
+ removeUser(id: unsigned int): bool
+ editUser(id: unsigned int): bool
+ listUser(id: unsigned int): User
+ listAllUsers(): string

## TimeDate

- secsSince1970: time_t
- year: unsigned int
- month: unsigned int
- day: unsigned int
- hour: unsigned int
- min: unsigned int
- sec: unsigned int
- isPM: bool
- is24Hour: bool

+ TimeDate()
+ ~TimeDate()
- getSecsSince1970() unsigned long int
- getSecsSinceLastCall(): unsigned long int
- advance(secsToAdvance: unsigned long int): void
+ set24HourClock(): void
+ getCurrentTime(): string

## SortedList

- head: Node

- findNode(id: int): Node
+ SortedList()
+ ~SortedList()
+ insert(newModel: Model): bool
+ remove(id: int): bool
+ edit(modifiedModel: Model): bool
+ find(id: int): Model
+ listAll(): string

## Model

# id: int

+ getId(): int
+ setId(value: int): void

Extends

## Node

- data: type
- next: Node
- prev: Node

+ Node(data: type)
+ ~Node ()
+ getData(): type
+ setData(data: type): void
+ getNext(): Node
+ setNext(next: Node): void
+ getPrev(): Node
+ setPrev(prev: Node): void

## User

- name: string
- phone: string
- email: string
- allowedPeriod: string

+ getName(): string
+ setName(value: string): void
+ getPhone(): string
+ setPhone(value: string): void
+ getEmail(): string
+ setEmail(value: string): void
+ getAllowedPeriod(): string
+ setAllowedPeriod(value: string): void