FileStuff

- fileInfo: String

+ readFile(String): void
+ createSystem(SystemManager): void

Airport

- name: String
- portAirport: String

+ toString(): String
+ check(LinkedList<Airport>): boolean

Airline

- name: String
- cruiseAirline: String

+ toString(): String
+ check(LinkedList<Airline>): boolean

<<Enum>>
Vehicle

+ ship, airplane

SystemManager

- airportLL: LinkedList<Airport>
- airlineLL: LinkedList<Airline>
- flightLL: LinkedList<Flight>
- fsLL: LinkedList<FlightSection>
- portAirport: String
- cabinSeat: String
- tripFlight: String
- cruiseAirline: String

+ createAirport(String): void
+ createAirline(String): void
+ createFlight(String, String, String, int, int, int, String) : void
+ createFlight(String, String, String, int, int, int, int, int, String): void
+ createSection(String, String, int, int, SeatClass): void
+ createSection(String, String, SeatClass, int, int, int, String): void
+ createSection(String, String, String[]): void
+ findAvailableFlights(String, String): void
+ bookSeat(String, String, SeatClass, int, char): void
+ bookSeat(String, String, SeatClass, char): void
+ displaySystemDetails(): void
+ writeFile(String): void
+ changePriceSeatClass(int, SeatClass): void
+ changePriceOrigDest(String, SeatClass, String, String, int): void
+ getCabinSeat(): String
+ getTripFlight(): String
+ getCruiseAirline(): String
+ getPortAirport(): String

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Flight

- aName: String
- orig: String
- dest: String
- year: int
- month: int
- day: int
- hour: int
- min: int
- flID: String
- cruiseAirline: String

+ toString(): String
+ check(LinkedList<Flight>, LinkedList<Airline>): boolean
+ getOrig(): String
+ getDest(): String
+ getDate(): String
+ getAirlineName(): String
+ getflID(): String

Seat

- aName: String
- flID: String
- s: SeatClass
- row: int
- column: char
- tripFlight: String
- isAvailable: boolean
- isAisle: boolean
- isWIndow: boolean

+ check(LinkedList<FlightSection>): boolean
+ getRow(): int
+ getCol(): char
+ isAvailable(): boolean
+ bookSeat(): void
+ preference(char): boolean

<<Enum>> SeatClass

+ economy, business, first

FlightSection

- s: SeatClass
- flID: String
- rows: int
- columns: int
- aName: String
- seatCount: int
- seatLL: LinkedList<Seat>
- price: int
- size: String
- tripFlight: String
- cabinSeat: String

+ hasAvailableSeats(): boolean
+ bookSeat(int, char): void
+ bookAvailableSeat(): boolean
+ createSeat(): void
- convert(int): char
+ check(LinkedList<Flight>, LinkedList<FlightSection>): boolean
+ getAvailableSeats(): String
+ getBookedSeats(): String
+ toString(): String
+ getAirlineName(): String
+ getflID(): String
+ getSize(): String
+ getSeats(): LinkedList<Seat>
+ getSeatClass(): SeatClass
+ getPrice(): int
+ setPrice(int): void
+ getRows(): int
+ isAvailable(int, char): boolean

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