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| --- |
| SpaceShip |
| - name: String  - capacity: int  - travelers: ArrayList<Traveler>  - numTravelers: int  - current: Location  - destination: Location  - flightHours: int |
| + SpaceShip()  + SpaceShip(String, Location, Location, int, int) |  + setFlightHours(int): void  + getFlightHours(): int  + getName(): String  + getCapacity(): int  + getCurrent(): Location  + getDestination(): Location + setName(String): void  + setCurrent(Location): void  + setDestination(Location): void  + setCapacity(int): void  + board(Traveler): boolean  + leave(Traveler): boolean + isOnBoard(Traveler): boolean  + move(): void  + toString(): String |

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| Traveler |
| - nextIDNum: static int  - name: String  - id: int  - current: Location |
| + Traveler()  + Traveler(String, Location)  + getName(): String  + getID(): int  + setID(): void  + getLocation(): Location  + setLocation(Location): void  + toString(): abstract String  + setName(String): void  + move(SpaceShip): abstract void |

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| --- |
| Passenger |
| - cost: double  - seat: SeatCategory  - rewardsPoints: int |
| + Passenger()  + Passenger(String, Location, SeatCategory, int)  + getCost(): double  + setSeatCategory(SeatCategory): void  + getSeatCategory(): SeatCategory  + getRewardsPoints(): int  + setRewardsPoints(int): void  + toString(): String  + move(SpaceShip): void |

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| --- |
| Crew |
| - position: String  - flightHours: int  - payRate: double |
| + Crew()  + Crew(String, Location, String, int, double)  + setPosition(String): void  + getPosition(): String  + setFlightHours(int): void  + getFlightHours(): int  + setPayRate(double): void  + getPayRate(): double  + toString(): String  + move(SpaceShip): void |

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| AvailableTravelers |
| - travelers: ArrayList<Traveler>  - numOfTravelers: int |
| + AvailableTravelers()  + AvailableTravelers(int):  + getTravelers(): ArrayList<Traveler>  + addTraveler(Traveler): void  + findTravelerByName(String): Traveler  + toString(): String |

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| Location Enum |
| EARTH  BELT  MARS  RING |

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| SeatCategory Enum |
| NOSEAT  FIRST  BUSINESS  COACH |