

«Role»

Manager {ValidManager}

+ identifier: String {Mandatory, Column(unique=true), Automapped}
+ experience: Integer {Mandatory, ValidNumber(min=0, max=120), Automapped}
+ birthDate: Date {Mandatory, ValidMoment(past=true), Temporal(TemporalType.TIMESTAMP)}
+ pictureLink: String {Optional, ValidUrl, Automapped}

«Entity»

Weather Conditions

+ city: String
+ country: String
+ temperature: Double
+ humidity: Double
+ windSpeed: Double
+ description: String
+ reportTime: Date {Temporal(TemporalType.TIMESTAMP)}

«Entity»

Flight

+ tag: String {Mandatory, ValidTag, Automapped}
+ selfTransfer: Boolean {Mandatory, Automapped}
+ cost: Money {Mandatory, ValidMoney, Automapped}
+ description: String {Optional, ValidString, Automapped}
+ draftMode: boolean {Mandatory, Automapped}

+ scheduledDeparture: Date {Transient}
+ scheduledArrival: Date {Transient}
+ originCity: String {Transient}
+ destinationCity: String {Transient}
+ numberOfLayovers: Integer {Transient}
+ isAvalable: Boolean {Transient}

«Form»

ManagerDashboard

+ rankingBasedOnExperience; int
+ yearsToRetire: int
+ ratioOnTimeLegs: double
+ ratioDelayedLegs: double
+ mostPopularAirports: List<String>
+ lessPopularAirports: List<String>
+ numberOfLegsGroupedByStatus: Map<LegStatus,Integer>

+ avgDeviationOfCost: Money
+ minDeviationOfCost: Money
+ maxDeviationOfCost: Money
+ standardDesviationOfCost: Money

«Entity»

Leg {ValidLeg, ValidFlightNumber}

+ flightNumber: String {Mandatory, Column(unique=true), Automapped}
+ scheduledDeparture: Date {Mandatory, Temporal(TemporalType.TIMESTAMP), ValidMoment}
+ scheduledArrival: Date {Mandatory, Temporal(TemporalType.TIMESTAMP), ValidMoment}
+ status: LegStatus {Mandatory, Valid, Automapped}
+ draftMode: boolean {Mandatory, Automapped}

+ getDuration(): Double {Transient}

«Entity»

Airport

«Entity»

Aircraft

The first two or three letters of the id correspond to their initials

The tag must have between 1 and 50 characters.

The three letters of the flight number are from the IATACode of the airline

«Enum»

LegStatus

+ ON_TIME
+ DELAYED
+ CANCELLED
+ LANDED

Duration must be in hours

The scheduledDepature must be at least one minute before than the scheduledArrival

