Class Name: Customer

Super-classes: People

Attributes:

* Agency.
* PassportHolder.
* CreditCard.

Methods:

Class Name: Staff

Super-classes: People

Attributes:

Methods:

Class Name: NonMember

Super-classes: People

Attributes:

Class Name: Administrator

Super-classes: People

Attributes:

Methods:

Class Name: Manager

Super-classes: People

Sub-classes: Flight Manager, Service Manager

Attributes:

Methods:

Class Name: People

Super-classes: User

Attributes:

* Gender. Male, Female or Other
* ID. 8-digit unique number
* Address. Home address
* DOB. Date of birth, DD-MM-YYYY

Methods:

Class Name: User

Super-classes: None

Attributes:

* Name.
* Password.
* Email.
* Phone.
* Authority.
* ReportFunctionClass
* ProfileFunctionClass
* ReserveFunctionClass
* ServiceFunctionClass

Methods:

Class Name: ReportFunction

Super-classes: None

Attributes:

Methods:

* Customer\_report()
  + Allows us to get the customer report
* Flight\_report()
  + Allows us to get the flight report
* Service\_report()
  + Allows us to get the service report
* Agency\_report()
  + Allows us to get the agency report
* Company\_report()
  + Allows us to get the company report

Class Name: Report

Super-classes: None

Sub-classes: customer\_report, flight\_report(), service\_report(), agency\_report(), company\_report()

Attributes:

Methods:

Class Name: customer\_report

Super-classes: Report

Attributes:

* totalCost. The total amount spent from customers
* costInEachMonth. The total amount spent from customers per month
* costInService. The amount spent on services

Methods:

Class Name: flight\_report

Super-classes: Report

Attributes:

* totalCost.
* costOfEachRoute.
* costOfEachClass.

Methods:

Class Name: customer\_report

Super-classes: Report

Attributes:

* totalCost.
* costInEachMonth.
* costInService.

Methods:

Class Name: agency\_report

Super-classes: Report

Attributes:

* totalCost.
* costInEachMonth.
* customerNum.

Methods:

Class Name: company\_report

Super-classes: Report

Attributes:

* totalEarned
* totalSchedule
* earnedInEachRoute

Methods:

Class Name: Profile\_Function

Super-classes: None

Attributes:

Methods:

* customer\_info()
* flight\_info()
* flight\_details()
* agency\_info()
* service\_info()
* company\_info()
* create\_flight()
* edit\_flight()
* delete\_flight()
* add\_airport()
* edit\_airport()
* delete\_airport()
* add\_airplane()
* edit\_airplane()
* delete\_airplane()
* enable\_account()
* disable\_account()
* promote()

Class Name: Reserve\_Function

Super-classes: None

Attributes:

Methods:

* register()
* ticket\_reservation()
* service\_reservation()
* change\_seat()
* change\_service\_reservation()
* switch\_seat()
* change\_flight()

Class Name: Service\_Function

Super-classes: None

Attributes:

Methods:

* add\_service()
* change\_service()
* delete\_service()

Class Name: Airport

Super-classes: none

Attributes:

* name
* city
* country
* IATA/FAA
* Latitude
* Longitude
* Altitude
* Timezone
* DST
* databaseTimezone

Methods:

Class Name: Fleet

Super-classes: none

Attributes:

* aircraft
* ID
* inService
* firstClass
* businessClass
* premiumEconomyClass
* economyClass
* total

Methods:

Class Name: Route

Super-classes: none

Attributes:

* ID
* sourceAirport
* destinationAirport
* codeShare
* stop

Methods:

Class Name: Schedule

Super-classes: none

Attributes:

* ID
* flightID
* plane
* route
* departTime
* arrivalTime

Methods:

Class Name: Ticket

Super-classes: none

Attributes:

* date
* seat
* price
* route
* service

Methods:

Class Name: ServiceItem

Super-classes: none

Attributes:

* price
* name
* id
* availability

Methods: