

Requirements:

```
$ sudo pip install pandas
$ sudo pip install numpy==1.14.5
```

To run the code:

```
$ python main.py
```

After running main.py first option will be given is to choose the role from the following:

- 1) Security Personnel
- 2) Flight Staff
- 3) Passengers

By entering S, F or P you can choose from one of these roles.

Once one role is selected, depending on the role more actions will be printed.

Let's say you entered S:

- 1) Then, it will ask you to enter the Passenger's PNR number.
- 2) After, that it will ask for flight number.
- 3) And then it will validate both the entered details, and will print the details of the Passenger.
- 4) Now you can validate the details of the person.
- 5) If details are correct then you can press Y else N.

Let's say you entered F:

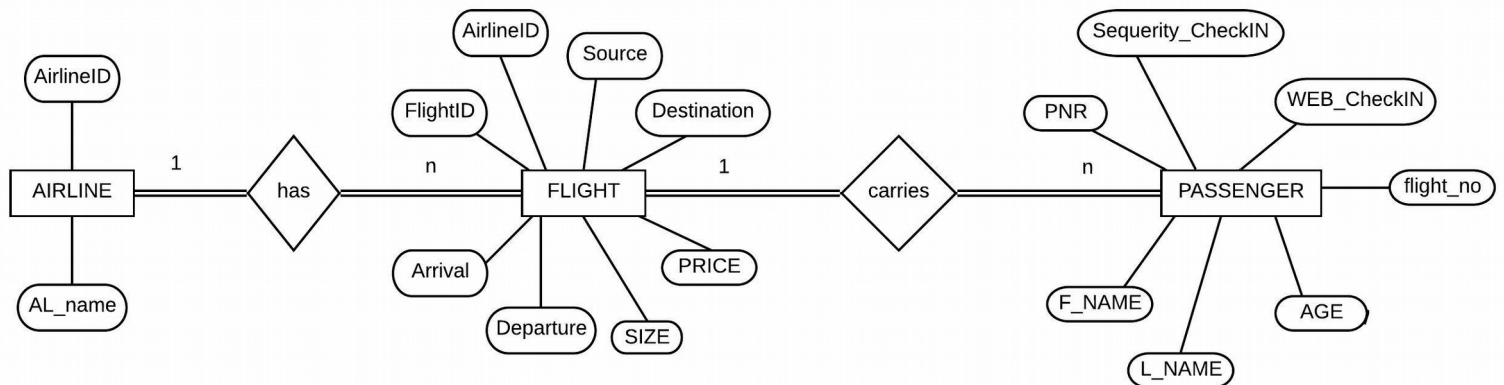
- 1) It will ask you to enter the flight number.
- 2) Then, it will display the list of the passengers sorted name wise who are able to successfully checkin.
- 3) Then, it will give you the option of proceeding with deletion of these passengers details from the database.

Let's say you entered P:

- 1) This will give you many options like:
 - >By entering 1, passenger can see the details of the flight he/she booked.
 - >By entering 2, passenger can proceed with WEB CHECKIN.
 - >By entering 3, passenger can proceed with making new booking.
 - >By entering 4, passenger can see the flights coming and going from some specific airport.
- 2) More further options will be given in each of the above options.

ER DIAGRAMME

Entity Relationship
Diagram



Sample Testcase1:

```

simran@simran-Inspiron-5558:~/Microsoft$ python main.py
Who are you?---->
Security Personnel please enter S
Flight Staff please enter F
Passengers please Enter P
P
Want to know the flight details enter: 1
For WEB CHECKIN enter: 2
New Booking enter: 3
Want to know the flights come and go from some specific airport enter: 4
4
Flights are available between following locations:
Source Destination
A B
B A
C D
D C
E F
F E
A C
C A
D B
B D
E B
B E
Enter the name of location to which you want to come or go: A
These are the avaiable flights at max 10 flights will be displayed:
FlightID AirlineID Source Destination Arrival Departure SEAT PRICE
1 1 A B 2018-05-28 18:35:00 2018-05-28 20:35:00 50 2000
2 1 B A 2018-05-28 21:35:00 2018-05-28 23:35:00 50 3000
7 3 A C 2018-05-29 20:00:00 2018-05-29 23:15:00 55 4200
8 3 C A 2018-05-29 15:00:00 2018-05-29 17:15:00 55 2200
    
```

Sample Testcase2:

Table: PASSENGER								New Record	Delete Record
	PNR	F_NAME	L_NAME	AGE	Sequurity_CheckIN	flight_no	WEB_CheckIN		
	Filter	Filter	Filter	Filter	Filter	Filter	Filter		
1	ABC123	SIMRAN	SINGHAL	21	1	1	1		
2	EFG123	SIMRAN	SINGHAL	42	1	2	0		
3	HIG123	SIMRAN	SINGHAL	21	0	1	0		
4	PQR123	SIMRAN	SINGHAL	21	1	2	0		
5	STU123	SIMRAN	SINGHAL	21	1	2	0		
6	EI0LO8	SEEMA	SINGHAL	42	0	7	0		
7	TZ7TJD	ADITI	JAIN	24	0	4	0		
8	7Z2LZ9	NICK	JOHNY	45	0	2	0		
9	3YRHHK	YANK	SUPER	56	0	9	1		
10	3UQ57H	JACOB	JAIN	29	0	14	0		
11	OC50C5	SAM	JENNY	45	0	1	0		
12	N2U9WL	SONALI	KAPOOR	10	1	7	1		
13	TDH57D	JAM	KING	23	0	9	0		
14	B7LLPO	JIMMY	SHARMA	56	0	2	0		

Sample Testcase3:

```

simran@simran-Inspiron-5558:~/Microsoft$ python main.py
Who are you?---->
Security Personnel please enter S
Flight Staff please enter F
Passengers please Enter P

f
Please Enter the Flight number: 2
      PNR   F_NAME   L_NAME   AGE   Sequerity_CheckIN   flight_no   WEB_CheckIN
0  B7LLPO   JIMMY   SHARMA   56           1           2           0
1  7Z2LZ9   NICK    JOHNY   45           1           2           0
2  STU123   SIMRAN   JANNY   21           1           2           0
3  PQR123   SIMRAN   ROYAL   21           1           2           0
4  EFG123   SIMRAN   SINGHAL  42           1           2           0

```

Sample Testcase 4:

```
simran@simran-Inspiron-5558:~/Microsoft$ python main.py
Who are you?---->
Security Personnel please enter S
Flight Staff please enter F
Passengers please Enter P

S
Please Enter the PNR number: OC50C5
Please Enter the Flight number: 1
      PNR F_NAME L_NAME AGE Sequerity_CheckIN flight_no WEB_CheckIN
0  OC50C5   SAM  JENNY  45              0             1             0

Are the detailes valid [Y/N]: y
SECURITY CHECKIN SUCESSFULL... PERSON CAN BOARD THE FLIGHT
```

Screen Cast of the code is also present in the same folder with name: sample_screencast.mp4