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Part-C.

Q2] Axioms:- It is a fundamental truth that is always valid. They are of 2 type.

① Axiom 1 — deta deals with relationship between system components

② Axiom 2 — deals with complexity of design.

→ Corollary: A proposition that follows an axiom or another proposition that has been proven.

→ According to the scenario, we have 4 classes

① Airport
② Security
③ Traveller
④ Boarding Pass Counter.

The class diagram depicts the attributes and methods that are required to check-in.

→ **Class diagram :-**

Traveller

- id : char
- #Name : char
- # Age : Integer
- # Flight No. char
- # Flight Name; char
- + Security Check ()
- + Collect Passes ()
- + check In ()

Airport

- id : char
- #Name : char
- # Location : char

Boarding Pass Counter

- + Check Ticket ()
- + Distribute passes ()

Security

- Id char
- #Name char
- # Age Integer
- + Check Travelers ()
- + Check Baggage ()
- + Baggage Check In ()

+1..*

+1

+1..*

+1

+1

+1

+1

+1..*

+1..*