Noun Verb Analysis

You have been contracted to develop a prototype system for the Norman Manley Airport that will assist the airline staff in processing persons who have checked in for their flights during the covid pandemic. The information is stored for each person are as follows ID#, Name, Gender, FlightNo and Priority.

There is no way of determining the number of persons who will check in daily, so your solution should implement an appropriate data structure that can handle this level of uncertainty. Each person has a Priority Level of either 1 or 2 that will indicate the urgency at which they are processed – with 1 being the most urgent.

UML Diagrams

|  |
| --- |
| Passenger |
| -idNum : string  -name : string  -gender : char  -flightNum : string  -priority : int |
| +Passenger()+Passenger(string, string char, string, int)+generateName() : string+generateID() : string +generateFlightNo : string+generatePriority(): int |

|  |
| --- |
| Node |
| -passenger : Passenger  -nextNode : Node  -prevNode : Node  -arrivalTime : int |
| +Node()  +Node(Passenger, Node, Node)  +Node(Node)  +generatePassenger() : void |

|  |
| --- |
| Linked List |
| -head : Node  -tail : Node |
| +LinkedList()  +LinkedList(Node, Node)  +generateNode() : void  +printList : void  +prioritizeList(int) : void  +removeNode(Node) : void |

# Linked List

# Node

# Passenger