

State Diagram of Planes in Airports

Ng Wan Ying | July 28, 2022

Assignment Topic:

During your two previous assignments you created a UML class diagram and sequence diagram to display your new system for North American airports. You are now required to create a UML state diagram to communicate the state of the planes in the airports.

The airplanes should go through multiple different states. When planes are not in use for a flight they are usually **waiting** to be assigned. Once a plane is chosen to be used for a flight, they are **assigned** to that flight until the airplane is ready for take-off. While the plane is in the air and flying the state is termed '**en route**'. Once the plane has reached its destination, the plane has to change into a state of **landing** for the airport to prepare for its arrival. Finally, once the plane has successfully landed, the plane is checked to see if it is ready to be assigned to a new flight or if maintenance is required. If **maintenance** is required the plane is unusable and if a mechanic decides that the plane cannot be repaired it is removed from the airport and disposed.

