

ABSTRACT

Runways play a radical role for takeoff and landing of planes. This project mainly emphasizes on automating and managing the runway system. We have deployed DHT sensor for reading climatic temperature and Ultrasonic sensor for tracking the distance between plane and runway. The distance will be contemplated by pilot(s) to monitor the speed of the plane. Climate is critical factor to decide whether plane should take-off or kept halted or landed. And hence, to discard all those uncertainties, this prototype project discloses, how it can be solved and implemented with IoT. The Ultrasonic sensor is used to keep updating the controller(s) with regard to distance and assist them to proceed with the appropriate action (controlling the speed). Add-on to the Ultrasonic sensor, we have used DHT sensor that keeps track of temperature and humidity which are again the radical aspects of plane to land safely.

Keywords -- Automation, takeoff, landing, plane, climate, temperature, humidity, DHT sensor, Ultrasonic sensor.