

## **ABSTRACT**

*Budiarto Meteorological Station as a service provider of flight weather data information and especially MET Report for take off and landing purposes which is always used by users and stakeholders such as Air Traffic Controller ATC and flight cadets of the Indonesian Aviation Polytechnic (PPI), Aero Flyer (Batavia Airlines Aviation School) ) and others used to determine the runway at Budiarto Airport. The MET Report information service system that is currently running is still manual in delivering weather data and it takes a long time to process the MET Report because the raw data is obtained from observations and then the raw data is processed into Microsoft Excel so that it has not run effectively, requires time and distance from flop to send MET Report to ATC and pilot cadets so that the current system is not running effectively, in addition to conveying MET Report information by telephone there may be a possibility of misreading, so that the information submitted to ATC and pilot cadets is less accurate. Given the problems that occur in the delivery of MET Report information, it is necessary to create a web-based meteorological information system that aims to make it easier for Observers to send MET Reports to ATC and flight cadets. In this research, a Web-based Synoptic Observation Flight Meteorological Data Information system (MET Report) has been created which will facilitate observers, ATC and pilot cadets to obtain MET Report weather information needed in an application. This system is made using the PHP programming language and MySQL database. The method of analysis using PIECES, waterfall system development and system testing using a blackbox system.*

*Keywords: Meteorology, MET Report, Synoptic*