

ABSTRACT

The influence of weather in Indonesia is very important to the activities that will be carried out by the community, both in terms of individuals and groups. In the current era of technology that is increasingly advanced the application of weather monitoring systems needs to be done in anticipation of upcoming disasters, especially during the rainy season. National Research and Innovation Agency (BRIN) makes the ship's radar-based rain-monitoring technology SANTANU.

System development is done to create an android application that makes it easier for the users to access and notify the potential dangers of flooding during rain in the area to be observed with notification future. By using VsCode, FastAPI and Matplotlib library from Python an application can be made with these features.

The result of the development carried out is that on this system runs on a web-based system by popping up notifications when the rainfall value reaches a certain point and displaying data on the distribution of rain reflectivity values. However, there are some obstacles at the stage of creating an android application such as data that does not appear and errors in calling data to android.

Keywords: Android Apps, Radar, Rain, Observation, BRIN, FastAPI, VsCode, Matplotlib, Python