ABSTRACT

In this day and age the crime does not look at the place and the situation, even from small and big things, there must be a crime. Over time and the development of technology has emerged a variety of the latest innovations in the field of technology one of which is security. In order to provide convenience in maintaining security from criminal acts, we need a tool that can monitor the activities around us for 24 hours, namely with a surveillance camera or better known as CCTV. In its use CCTV cannot provide information specific to the object when recording certain objects. Object detection can use the Haar Cascade Classifier method which is commonly used in object detection. The name Haar itself refers to Haar Wavelet, a mathematical function that is box-shaped and has principles like the Fourier function. Haar-like features are rectangular features that give specific indication to an image or image. The principle of Haar-like features is to recognize an object based on the simple value of the feature but not the pixel value of the object's image. This method has the advantage that the computation is very fast, because it only depends on the number of pixels in a square not every pixel value of an image. The detected object can be observed by CCTV in detail. This system can provide information to users in real-time to directly observe the state of valuables in a room with CCTV that has been given an algorithm design, this can minimize criminal actions.

Keywords: *Detection, Object, CCTV, Haarcascade Classifier, Accuracy*