

ABSTRACT

Bandung city is one of the largest cities in Indonesia. Bandung is the capital of West Java province which is a fairly densely populated metropolitan city. Density of population in the city of Bandung resulted in density on the highway. In the city of Bandung, there are public transportation facilities that serve travel routes around the city of Bandung. With the increasing number of residents, the increasing traffic density in the city of Bandung which causes congestion. Traffic jams occur when traffic conditions on the highway start quickly due to obstacles that arise and freedom of movement is relatively small. Like the traffic in the city of Bandung, traffic jams often occur at several points which are usually caused by the drivers themselves who are less concerned with traffic rules. According to the West Java DISHUB, traffic jams often occur in the morning, afternoon and weekend, and usually occur at traffic light intersections. The people of Bandung City still lack awareness in obeying traffic regulations, thus increasing road accidents. The Transportation Agency has done various ways in monitoring traffic in the city of Bandung. By making CCTV at the intersection of traffic lights, in order to monitor motorists.

Based on traffic problems in the city of Bandung, a solution was created, namely to create a UI/UX for a website-based application using the User Centered Design method that can assist the Transportation Agency in monitoring traffic in the city of Bandung. The traffic application provides information on the location of congestion points, with this information system it is easier to find out the congestion points and can help faster the West Java Transportation Agency in diverting road flows. In this application there is also a traffic incident reporting.

(Keywords: Congestion at traffic intersections, User Interface, User Experience, User Centered-Design)