

## **ABSTRACT**

Leather shoes are shoes that have a formal and elegant feel while in use. Leather shoes are generally used more frequently when attending formal occasions or to go to the office. By the 2000s, however, men had begun to wear leather material shoes to perform daily activities. Many of the department Store's shopping malls require that employees wear neat clothes with formal shoes and require quick service to customers. Often users of real leather shoes feel uncomfortable because they become moist and smelly when standing for a long period of time. A redesign of Cardinal KAI 2 (material aspect) shoes is required. The redesign was carried out using the Teardown product approach and reverse engineering data, data collection aimed at designing the right material for Derby shoes so that the bacteria that make the shoes stink. This design is expected to meet the needs of employees.

Keywords: Derby shoes, department store employees, bacteria on shoes