# ABSTRACT

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**WEB-BASED DAMAGED ROAD REPORTING SYSTEM USING THE SDLC METHOD**

(xiv + 102 + Appendix)

Roads play a crucial role in supporting the transportation system as a connector between various locations and transportation routes. This infrastructure is not only essential for ensuring smooth mobility for the community but also serves as the backbone of economic activities, as well-maintained roads facilitate the flow of goods and services. However, in the Cilebut Bumi Pertiwi Residential Area, many roads have suffered damage that has not received adequate attention from the relevant authorities, particularly in areas that serve as primary routes for residents. The lack of sufficient information regarding the condition of these roads has become a significant obstacle to the timely and efficient repair efforts that should be undertaken. This research aims to develop a Web-Based Damaged Road Reporting System, designed using the System Development Life Cycle (SDLC) method. This system not only functions to map the location of road damage more effectively but also facilitates the relevant authorities in accessing the necessary information, enabling quicker and more accurate repairs. Based on the research findings, which involved BlackBox testing and User Acceptance Testing (UAT), it was found that this system can increase residents' participation in reporting road damage, while also providing the information needed by the community and local authorities in an integrated and comprehensive manner, thereby accelerating the road repair process in the area.

Bibliography (2017-2023)