



CITYSCAPE GREENERY: SMART MANAGEMENT of URBAN FOREST

UNDERGRADUATE THESIS
Submitted as one of the requirements to obtain
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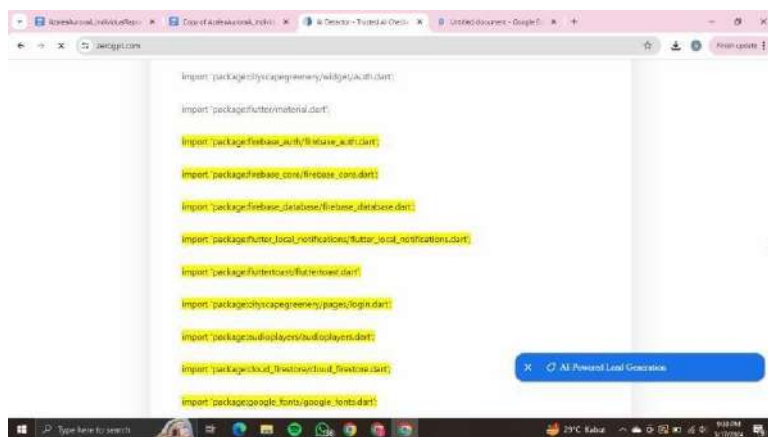
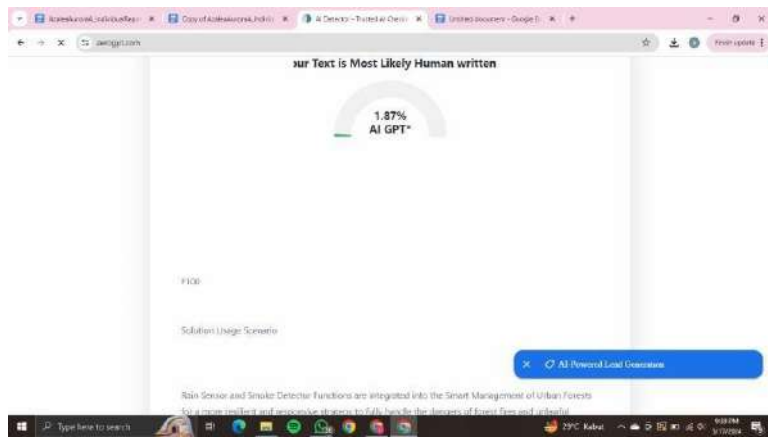
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ABSTRACT

This research explores the creation and implementation of Cityscape Greenery: Smart Management of Urban Forests to support urban environmental sustainability. With increasing urbanization, the need for well-managed green spaces has become important. Urban forests function as green lungs that absorb carbon dioxide and provide ecosystem benefits such as reducing air pollution, controlling temperature, and improving quality of life. This research analyzes challenges in urban forest management, such as limited land and community participation. To overcome this, a smart technology approach using IoT sensors is proposed.

Case studies were conducted in several large cities in Indonesia, with IoT sensors placed at strategic points to monitor environmental conditions in real-time. The research results show that smart technology increases the efficiency and effectiveness of urban forest management. More accurate data and rapid analysis enable more timely and evidence-based decision making, and increase community engagement.

This research concludes that Cityscape Greenery: Smart Management of Urban Forests has great potential to be applied in various cities in Indonesia. With smarter and participatory management, urban forests can contribute more to environmental sustainability and the welfare of urban communities. This research provides practical solutions for better urban forest management and paves the way for green technology innovation and urban sustainability.

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