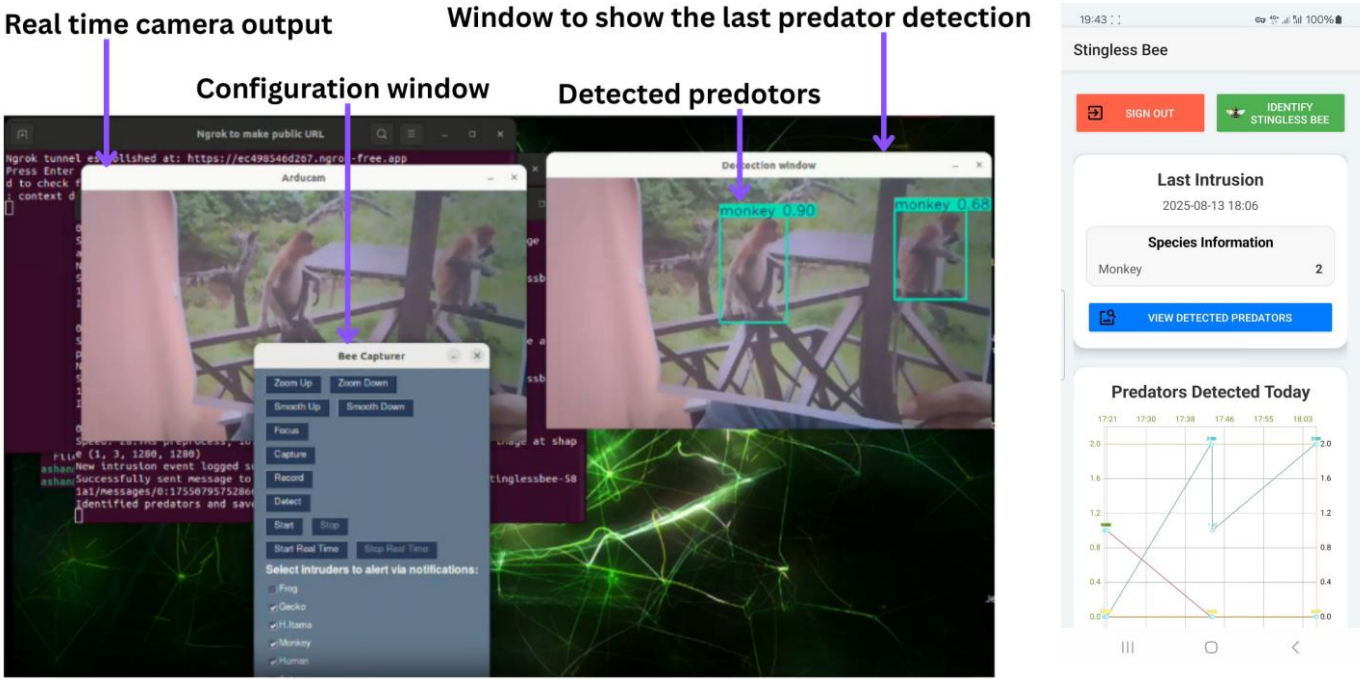
Supplementary Document

This Supplementary Document accompanies the paper "Edge-Based Multi-Scale Predator Detection for Stingless Bee Protection Using Attention-Integrated YOLOv11" and is designed to provide detailed insights into specific aspects of the study for enthusiastic readers seeking deeper understanding.

Figure S1 illustrates the user interfaces of both the Jetson-based software and the mobile application. Figure S1(a) shows the user interface of the Python-based software running on the Jetson device, where the live camera output is displayed on the left side. The window on the right displays the most recently detected intruders, while the control panel appears at the top of the screen. Figure S1(b) presents the user interface of the mobile application, which functions as a dashboard for the intruder detection system.



(a) *(b)*

Figure S1. Interfaces of software: (a) Jetson Orin Nano edge device as seen from the optional LCD; (b) mobile application of the system.

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