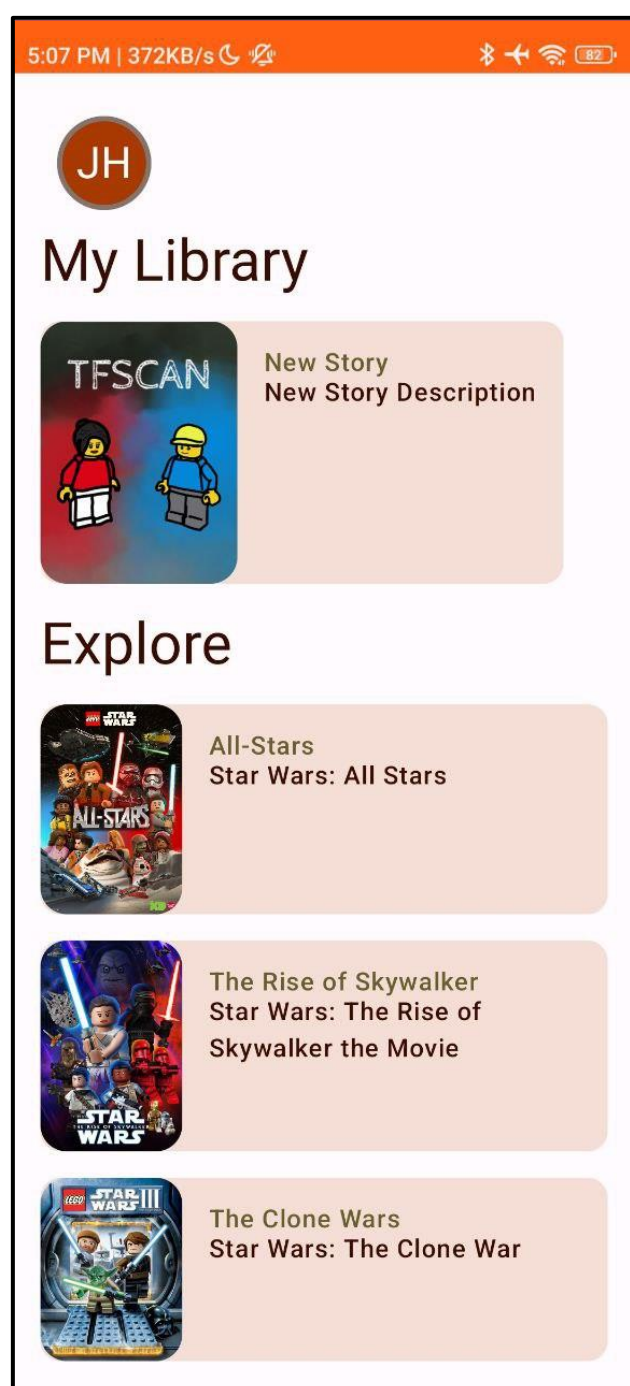


Tangible Figurine Story Composer and Narrator

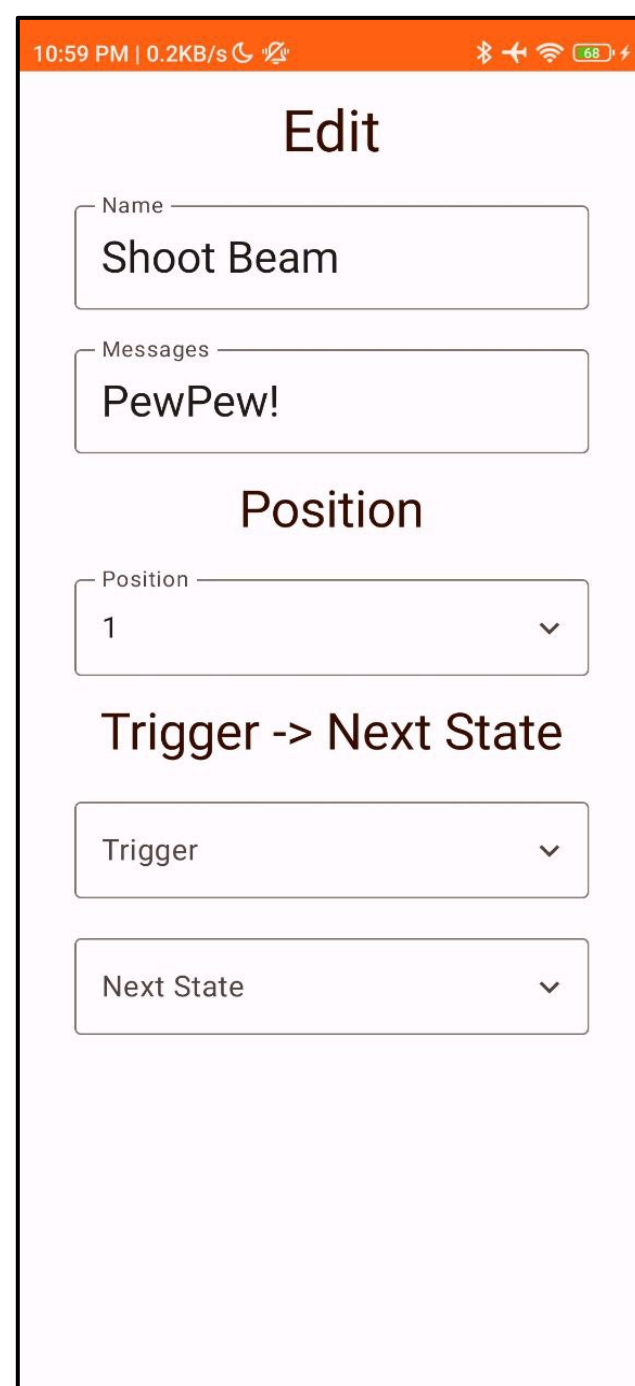
for Children with Autism Spectrum Conditions

Student: Choo Jin He

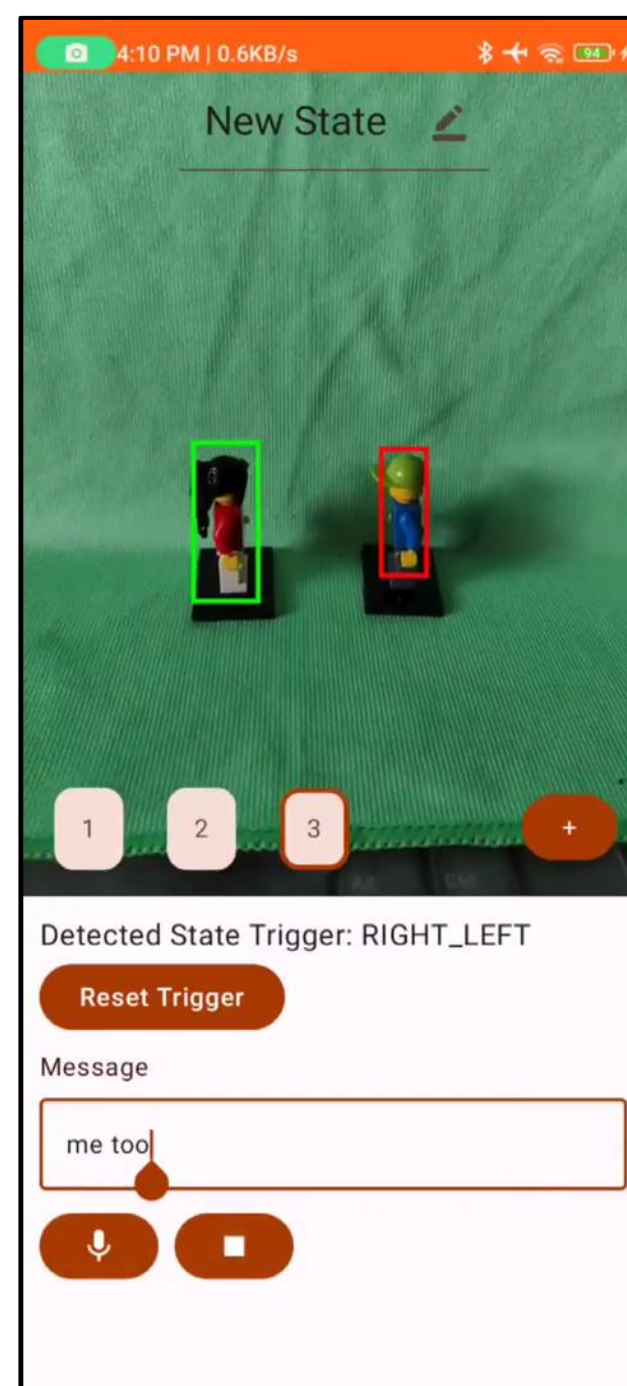
Supervisor: A/P Goh Wooi Boon



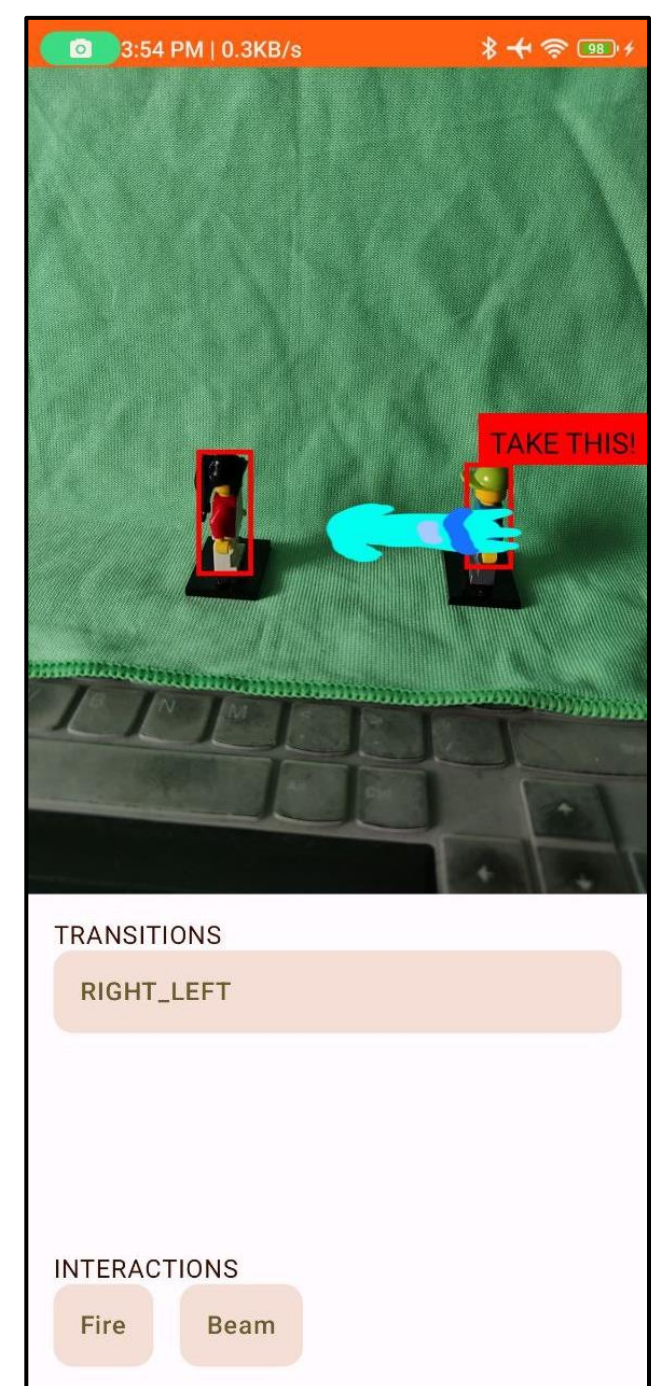
Home Screen



Version 1



Version 2



Storytelling

Project Objectives:

The project's aim is to leverage Convolutional Neural Networks (CNNs) for real-time LEGO Minifigure object detection, seamlessly integrating this technology into the TFSCAN mobile application. TFSCAN, designed to use everyday toys as educational tools, focuses on teaching social interactions to children with autism spectrum conditions (ASC). It emphasizes dynamic interactions, narration, and two story composition methods, evaluated through a user study. This comprehensive approach reflects our ongoing commitment to harnessing Tangible User Interfaces (TUIs) for meaningful interactions and learning experiences for individuals with ASC.