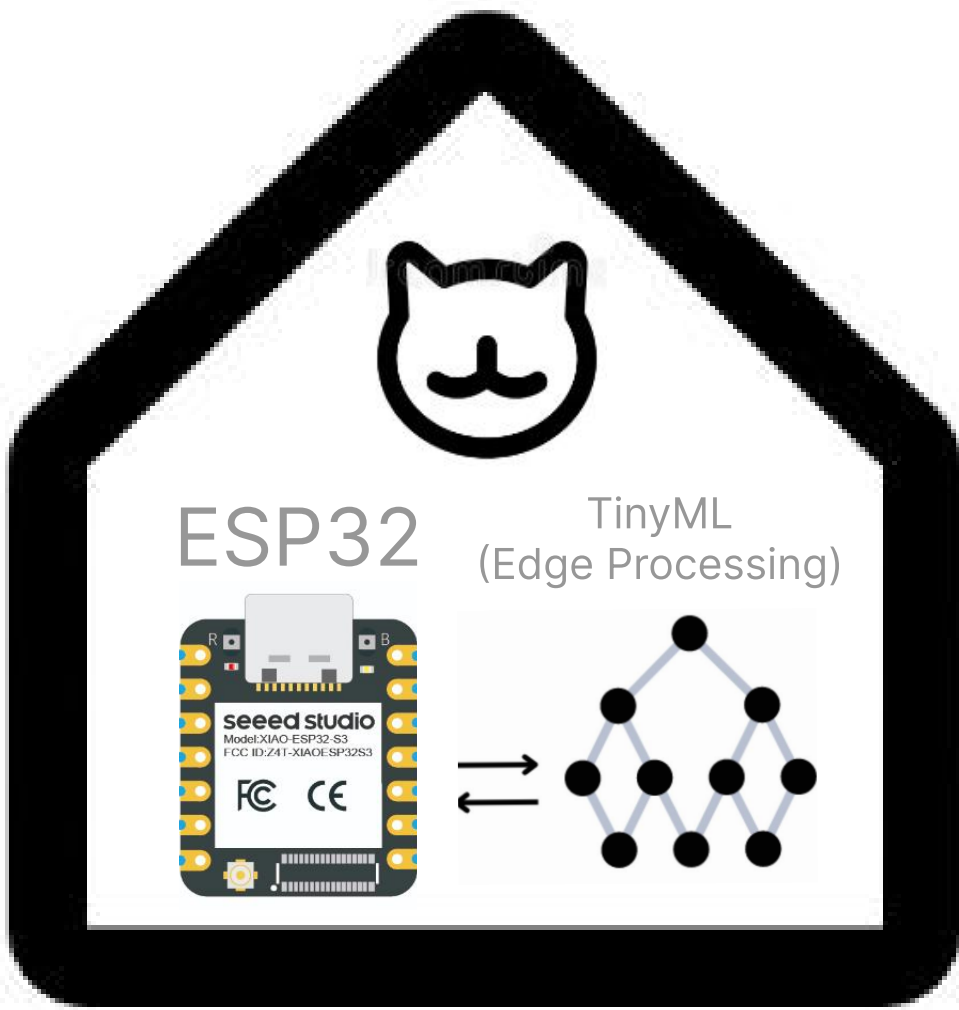


# Software Architecture



App | hosting



Cat House Product  
(IoT Device)

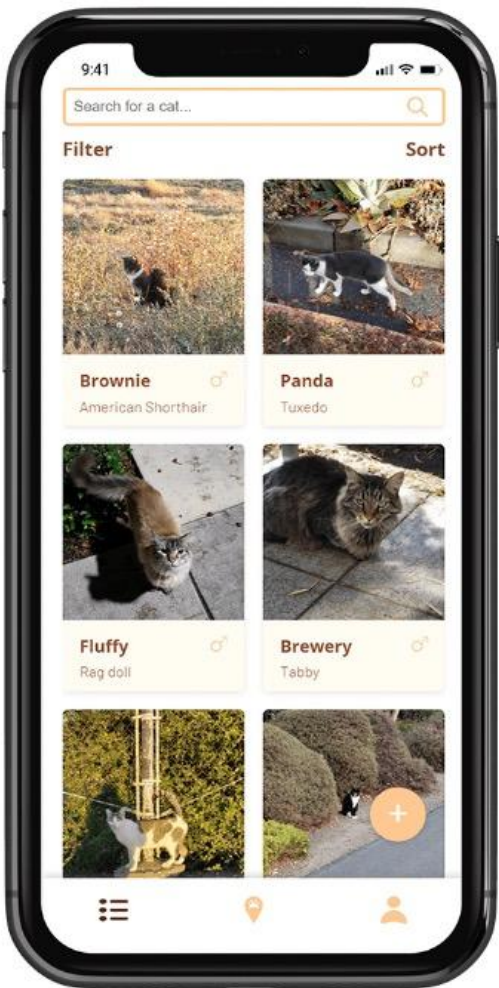


Data Transmission



Ingest and store data  
(Cloud Computing)

Data Transmission



Web App  
(End User)

Algorithm

Transfer Learning TinyML Model on Edge Impulse

Software

Arduino(C++ Programming), AWS and Azure(Cloud Storage), VS Code, Git

Pre-results

Raw weight sensor data before calibration, raw distance sensor data, and raw camera acquired images  
We have achieved real data after calibration of weight sensor and distance sensor, and accurate ML results for cat recognition.