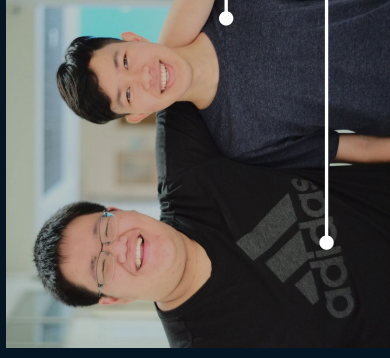
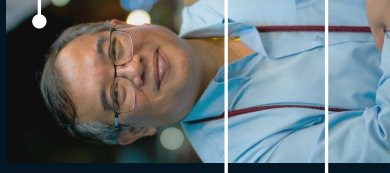


## Customer Analytic Platform using Deep Learning

## THE TEAM



**PUTCHONG UTHAYOPAS**  
Project advisor



**RAWIT PANJAROEN**  
5910500520  
AI Services

**SUPAKORN WONGSAWANG**  
5910500147  
Platform

## PROBLEMS



OLD-FASHIONED  
BUSINESS PLAN



HARD FOR TAKING AI  
TO PRODUCTION



LARGE-SCALE  
PLATFORM

## OUR GOALS



**AI SERVICES**  
Collect and  
analyze  
important data



**PLATFORM**  
Implement AI  
platform for  
pre-trained  
model



**SCALABILITY**  
Platform can  
expand/shrink  
depends on  
usage

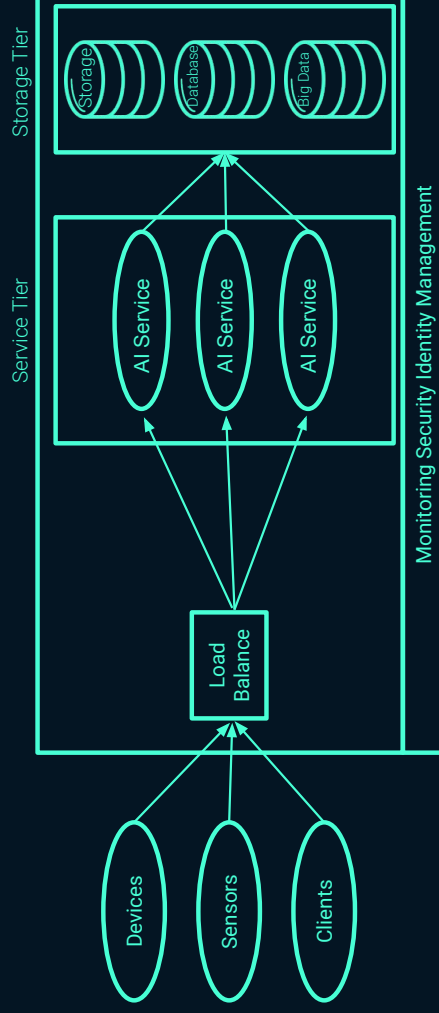
## WORKING SCOPE [1]

- Containerized platform on private cloud for AI services
  - Run AI Services on many host
  - Utilization monitoring on each host
  - Centralized data collection from AI services
  - Use external device to collect data for analysis using AI services

## WORKING SCOPE [2]

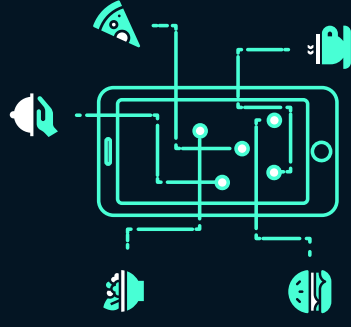
- AI services
  - Basic information classification
    - Gender
    - Age
    - Nationality
  - Basic monitoring data

## SYSTEM OVERVIEW



## TOOLS

What we use to produce this project to live?



## PLATFORM



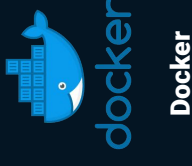
## DASHBOARD



## DATABASE



## AI SERVICES



# SOFTWARE DEVELOPMENT TOOLS



## Visual Studio Code



# Github

# TEAM MANAGEMENT TOOLS



ASANA



## Slack

# PROCESS

## Phase 1

- Installing OKD
- Gender Detection
- Message Queue

## Phase 2

- WebApp V1
- Database
- Report Creator Tool
- Utilization Dashboard

### Phase 3

- Age Prediction
- Connect to camera
- Compose Services
- Optional
  - Kafka
  - MongoDB

## Phase 4

- Scalability
- Benchmark
- Testing & Fixing bugs

[illegible]

