

Smart Recycle



< Team #2 >

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1. Project Outline

Increase in
**non-face-to-face
consumption**
due to COVID-19

Increased use of
disposable products

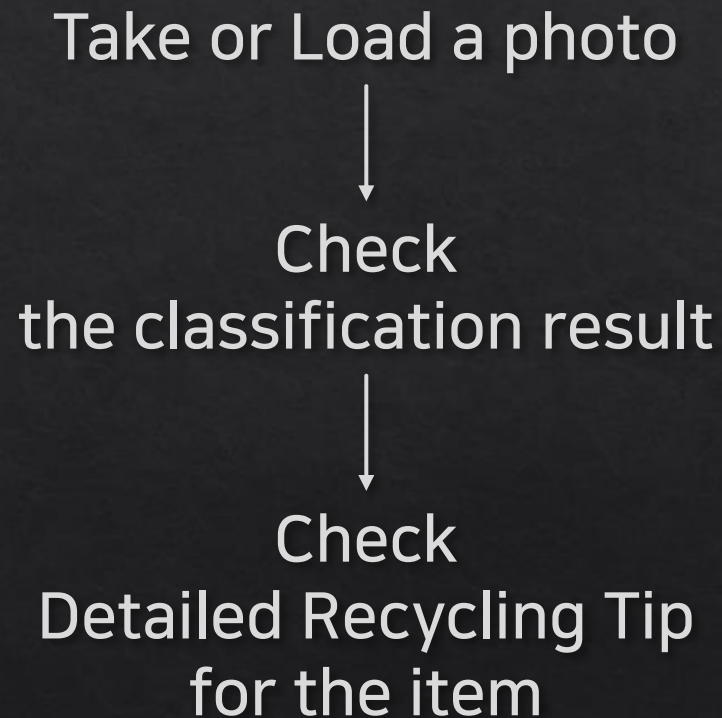
**Incorrect separation
of waste**



**Correct Recycling Sorting
With "Smart Recycle"**

2. Project Configuration

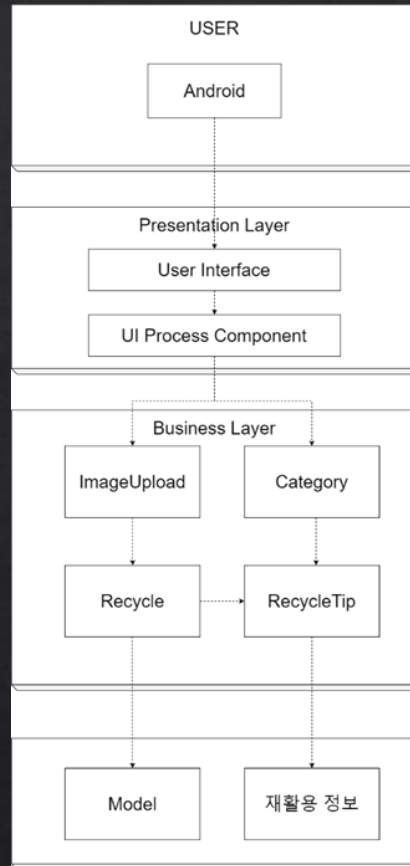
Service Scenario 1



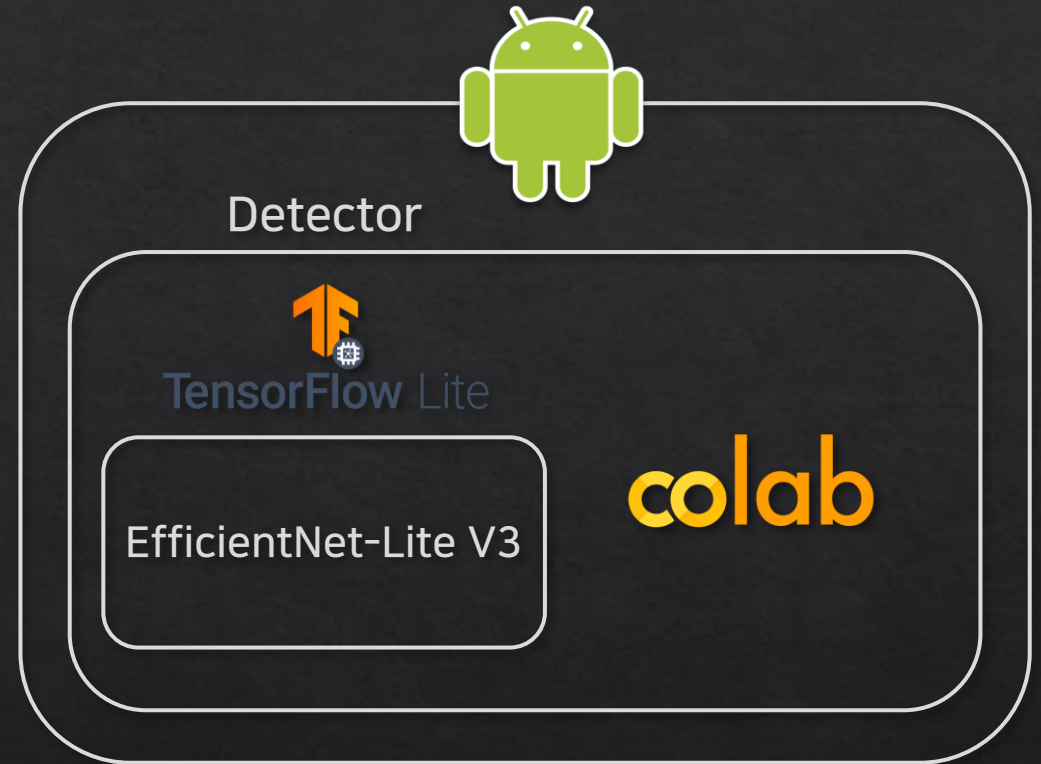
Service Scenario 2



2. Project Configuration



< System Blueprint >



< Interface Blueprint >

2. Project Configuration



< Provide recycling methods through image classification >

2. Project Configuration



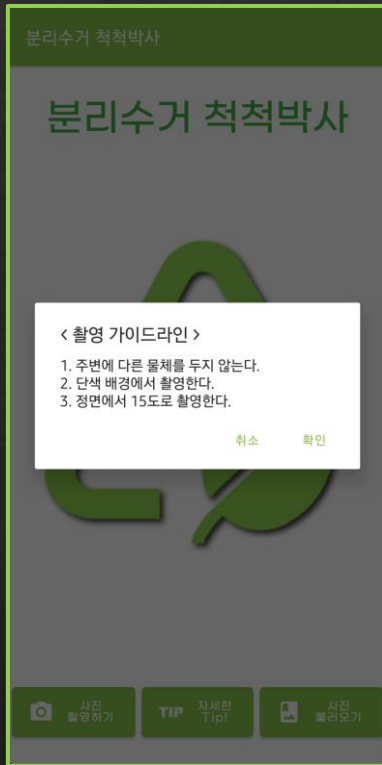
< Provide recycling methods for 9 categories >

2. Project Configuration

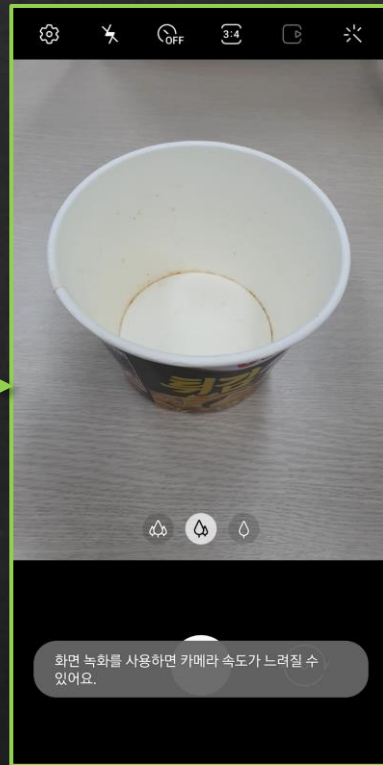


< Provide recycling methods for 10 confusing lists >

3. Highlight



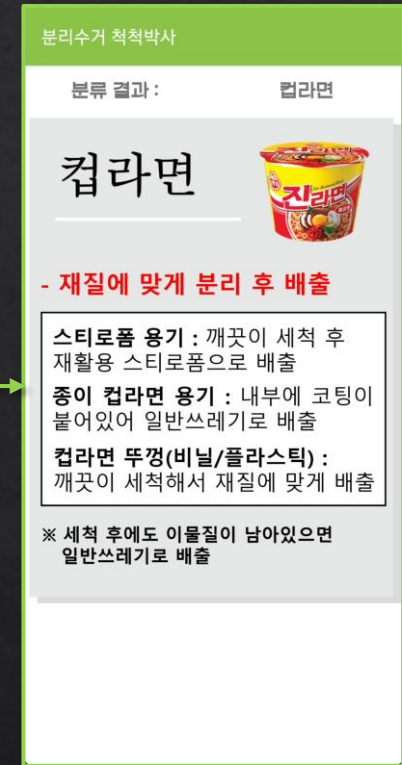
< Guideline >



< Take photo >



< Result screen >



< Detailed tips >

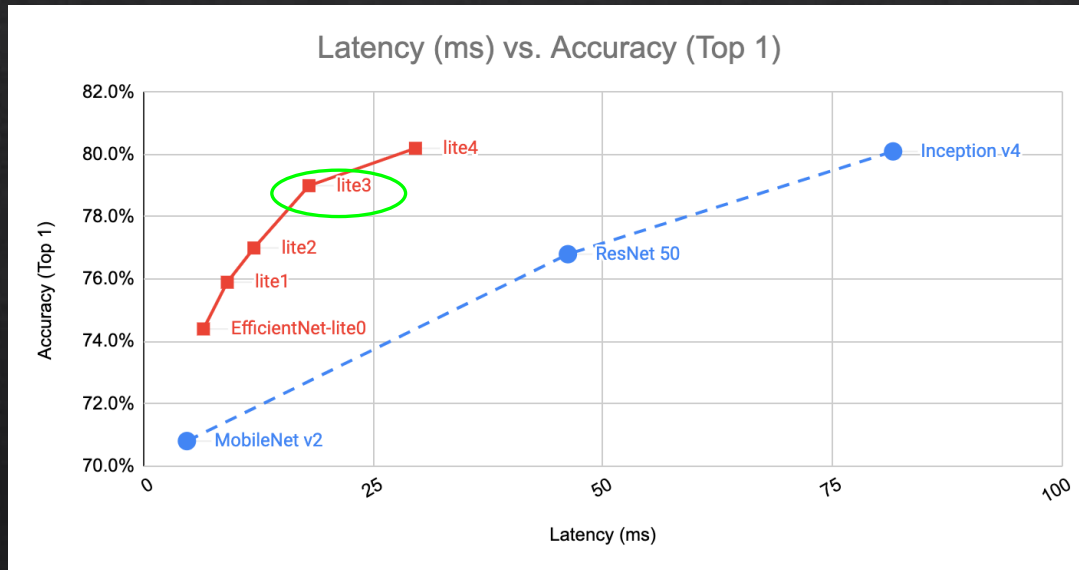
4. Project Vulnerability



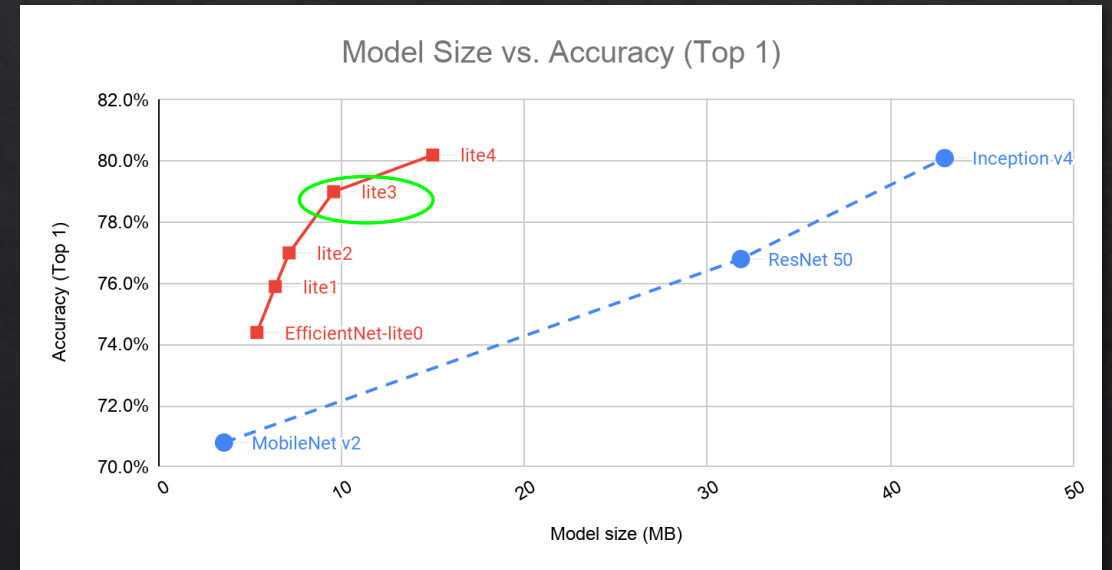
< Garbage shape (Different from the original shape) >

5. Project Complements

[EfficientNet-Lite V3]



< X-axis : Latency | Y-axis : Accuracy >



< X-axis : Model Size | Y-axis : Accuracy >

5. Project Complements



< Datasets of various angles, brightness and illuminance >

5. Project Complements



< Detect deformed objects >

Thank you