WHAT.Æ.BRICK

BAUER, HOFER, MAYR

TEAM

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PROJECT PROPOSAL

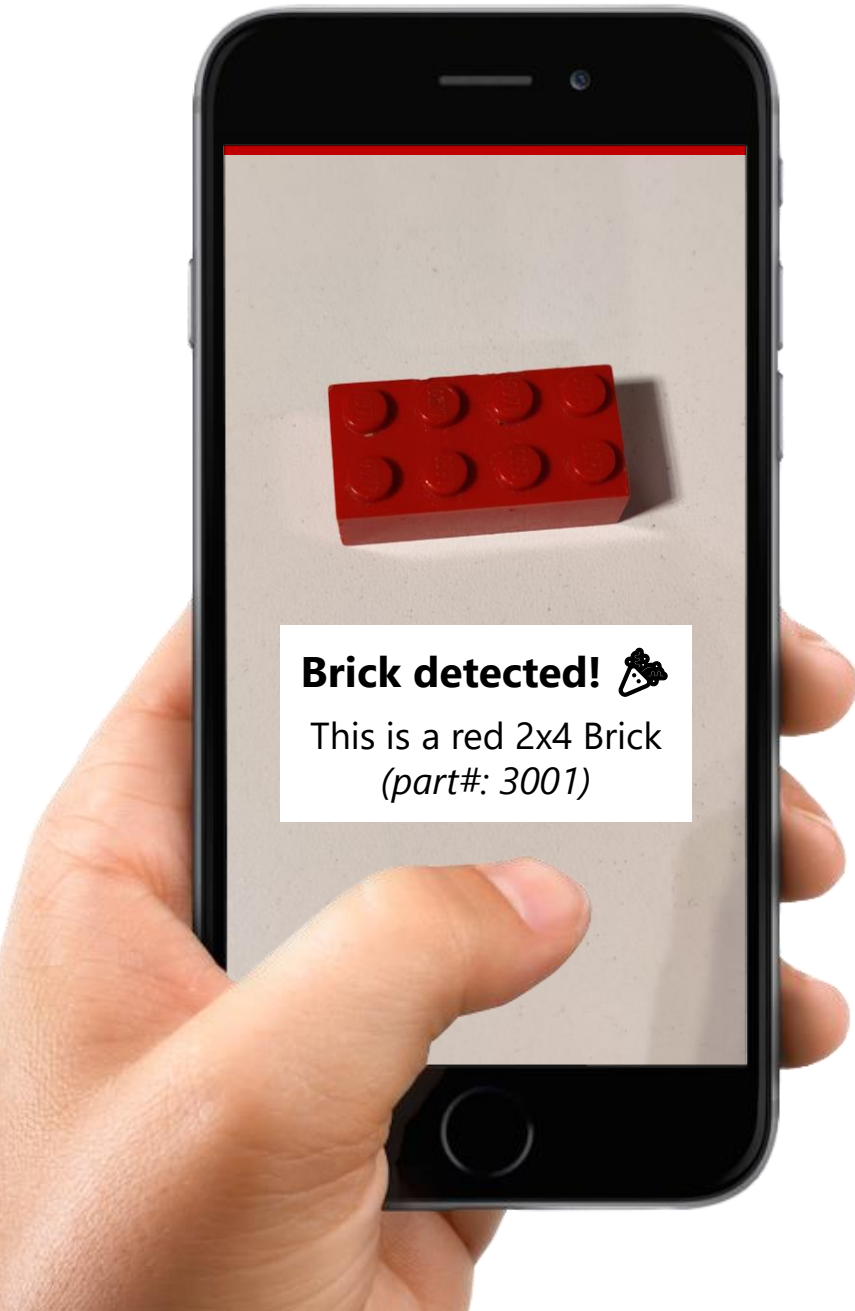# BUILDING LEGO (AFOL)

- custom structures
- specific bricks in specific colors needed
- single bricks can be bought online

One of the rarest bricks:

~ 0.25 USD   *700+ USD*

IDEA
WHAT.Æ.BRICK

Detect following part characteristics:
Type (*brick, plate*)
Size (e.g. *2*2, 2*4*)
Part ID (e.g. *3001*)

Brick detected! 🎉

This is a red 2x4 Brick
(part#: 3001)

PROJECT IDEA

LEGO Brick Classification via Camera

- 📱 offline: preprocessing and detection on device
- 🌍 online: enhanced classification via REST endpoint

History of Scanned Bricks

Bricklink/Rebrickable-Integration
Brick Details | Order (via Platform) | Shopping Cart

Classification-Feedback
for Image Upload/Feedback Loop

Re brick able

bricklink

❈ Native Design & Awesome UX ❈

EXISTING PARTS

1. Machine Learning Model based on

2. Preprocessing pipeline in python

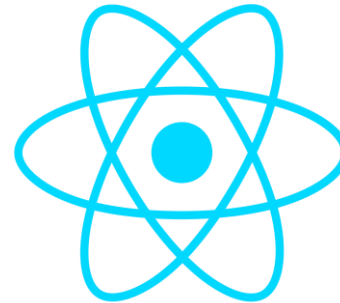3. Minimal Prototype as a Flutter App
   Send photo to REST API

TARGET PLATFORMS/TECHNOLOGIES

android

iOS

via

React Native

KaiOS **via** PREACT

Proudly powered by XSTATE

💶 MONETIZATION OPTIONS

Non-Capitalist Monetization

Capitalist Monetization

- One-Time Payment
- Subscription Service (per month, # of bricks)

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THÆNKS

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