

FRUIT-LENS

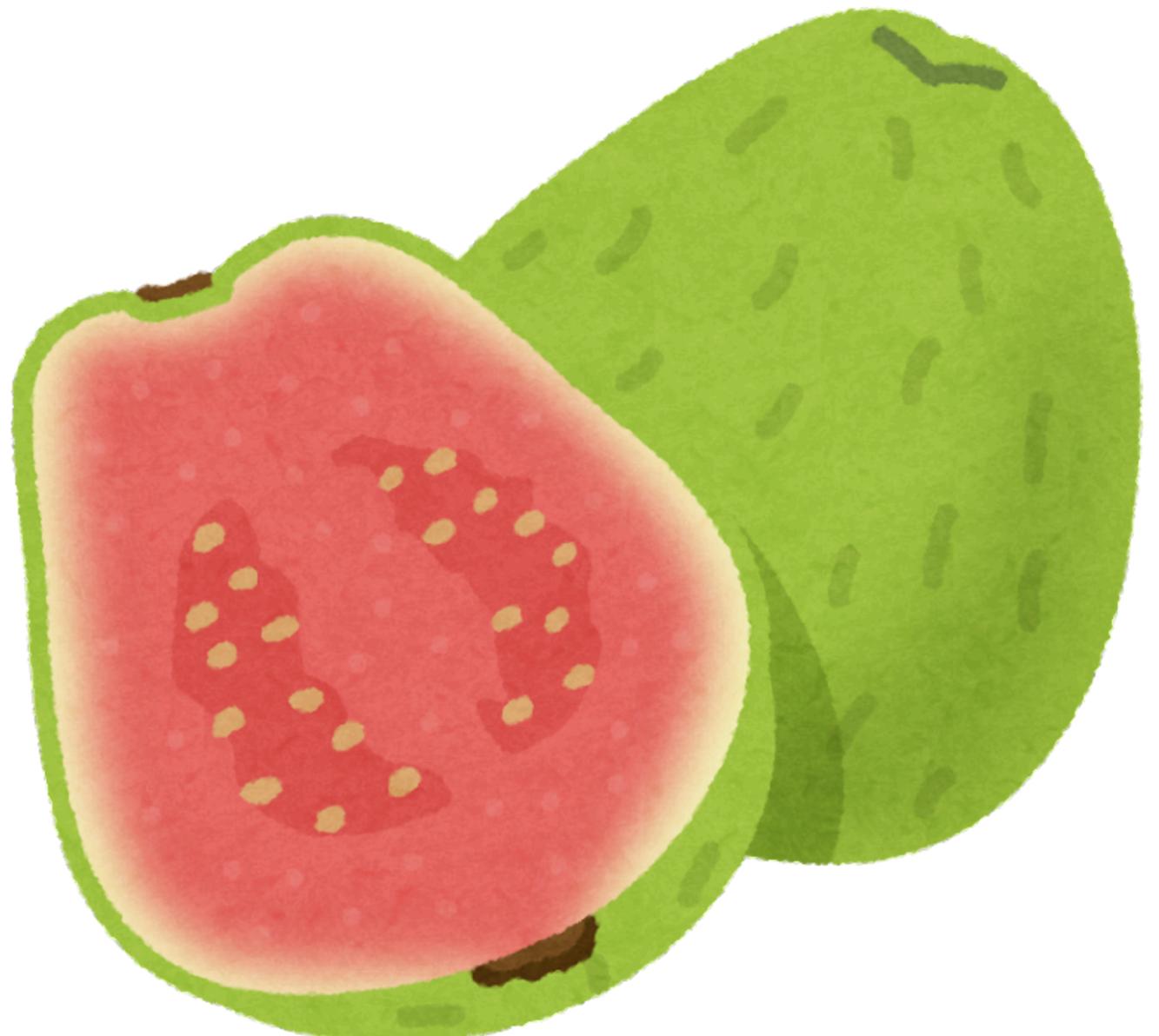
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PROBLEM

FRUIT-LENS ADDRESSES THE CHALLENGE CONSUMERS FACE IN DETERMINING THE RIPENESS OR FRESHNESS OF FRUITS. MANY STRUGGLE TO IDENTIFY IF A FRUIT IS RIPE, OVERRIPE, OR ROTTEN, LEADING TO FOOD WASTE AND POOR EATING EXPERIENCES. USING AI AND COMPUTER VISION, FRUIT-LENS OFFERS AN EASY-TO-USE SOLUTION TO HELP USERS MAKE INFORMED DECISIONS, REDUCING WASTE AND ENHANCING THEIR EXPERIENCE WITH FRUITS.



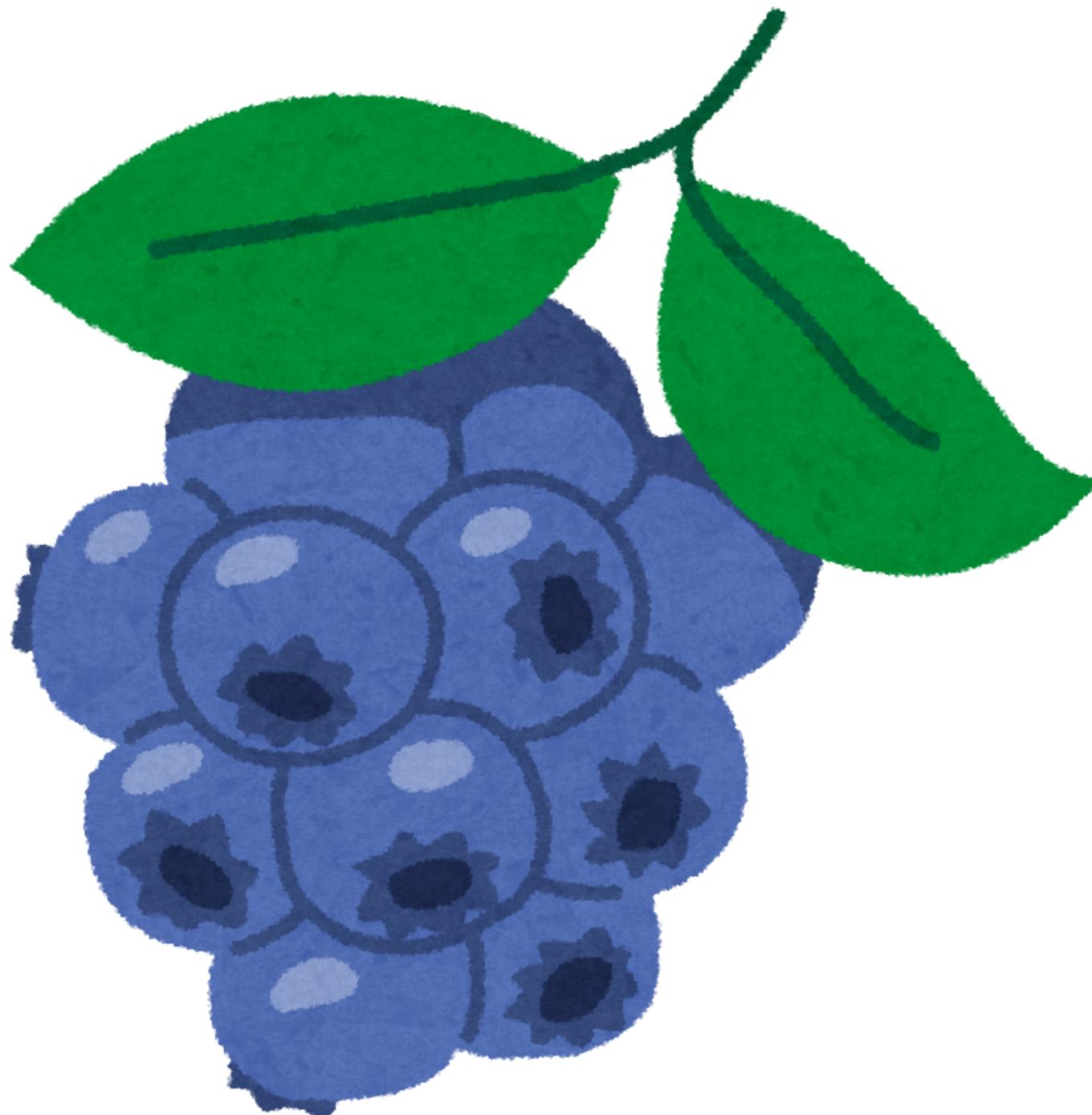


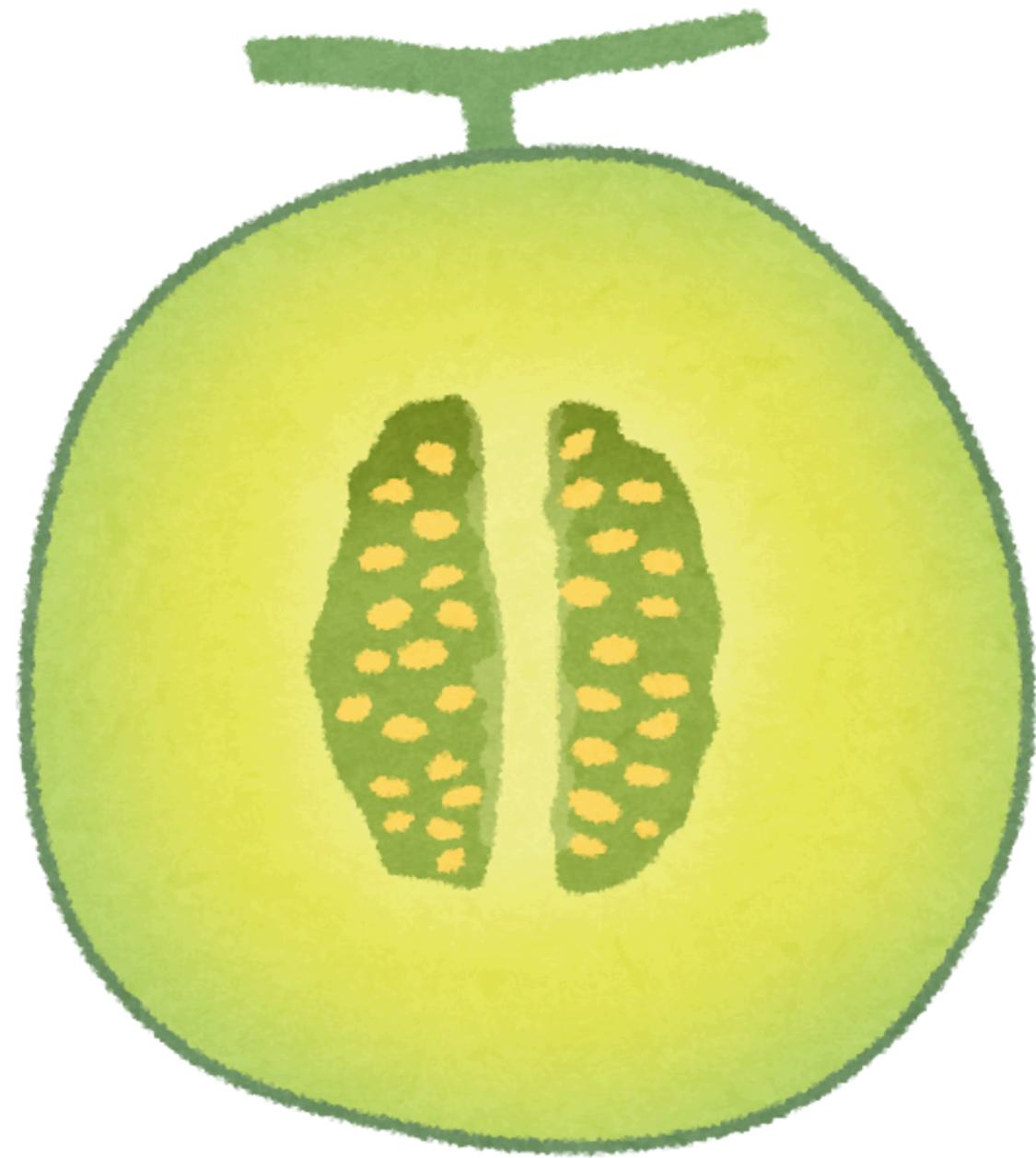
TARGET AUDIENCE

- GENERAL CONSUMERS
- GROCERY SHOPPERS
- FARMERS AND FRUIT VENDORS
- BUSY PROFESSIONALS
- ECO-CONSCIOUS USERS
- STUDENTS AND YOUNG ADULTS

KEY FEATURES

- FRUIT RIPENESS DETECTION
- REAL-TIME SCANNING
- FRUIT IDENTIFICATION
- USER-FRIENDLY INTERFACE





TECHNICAL APPROACH

- APP DEVELOPED AS A CROSS-PLATFORM MOBILE APP.
- FRONTEND: REACT NATIVE
- AI/ML MODEL: PRE-TRAINED NEURAL NETWORK
- COMPUTER VISION: OPENCV OR SIMILAR LIBRARY
- API: DEVICE-SPECIFIC FOR CAMERA ACCESS

USER INTERFACE SKETCHES



Fruit-lens



Tap to start scanning



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Apple



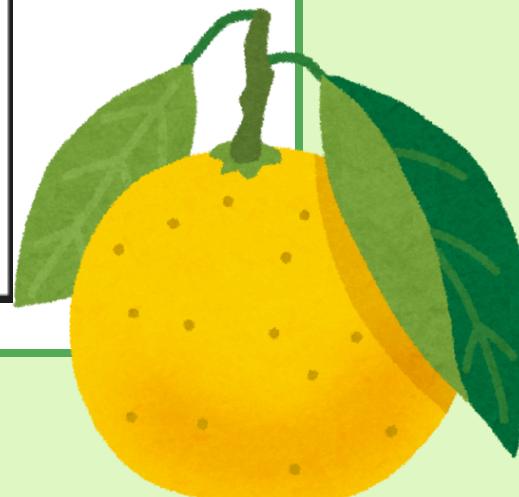
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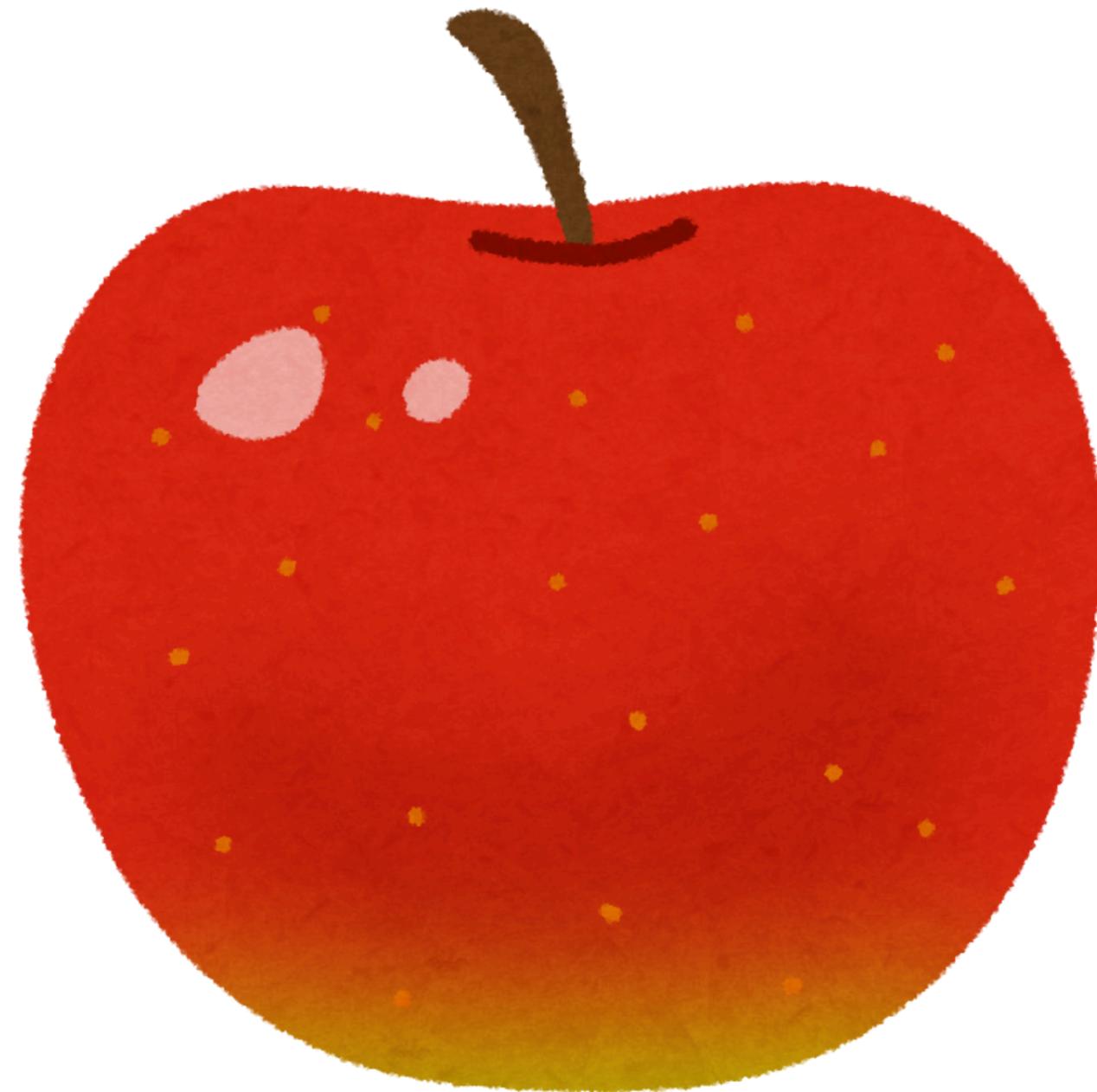
State: Unripe/Ripe/Rotten

Time left: _ days

Recipes:

- Apple pie
- Apple slices
- Apple juice



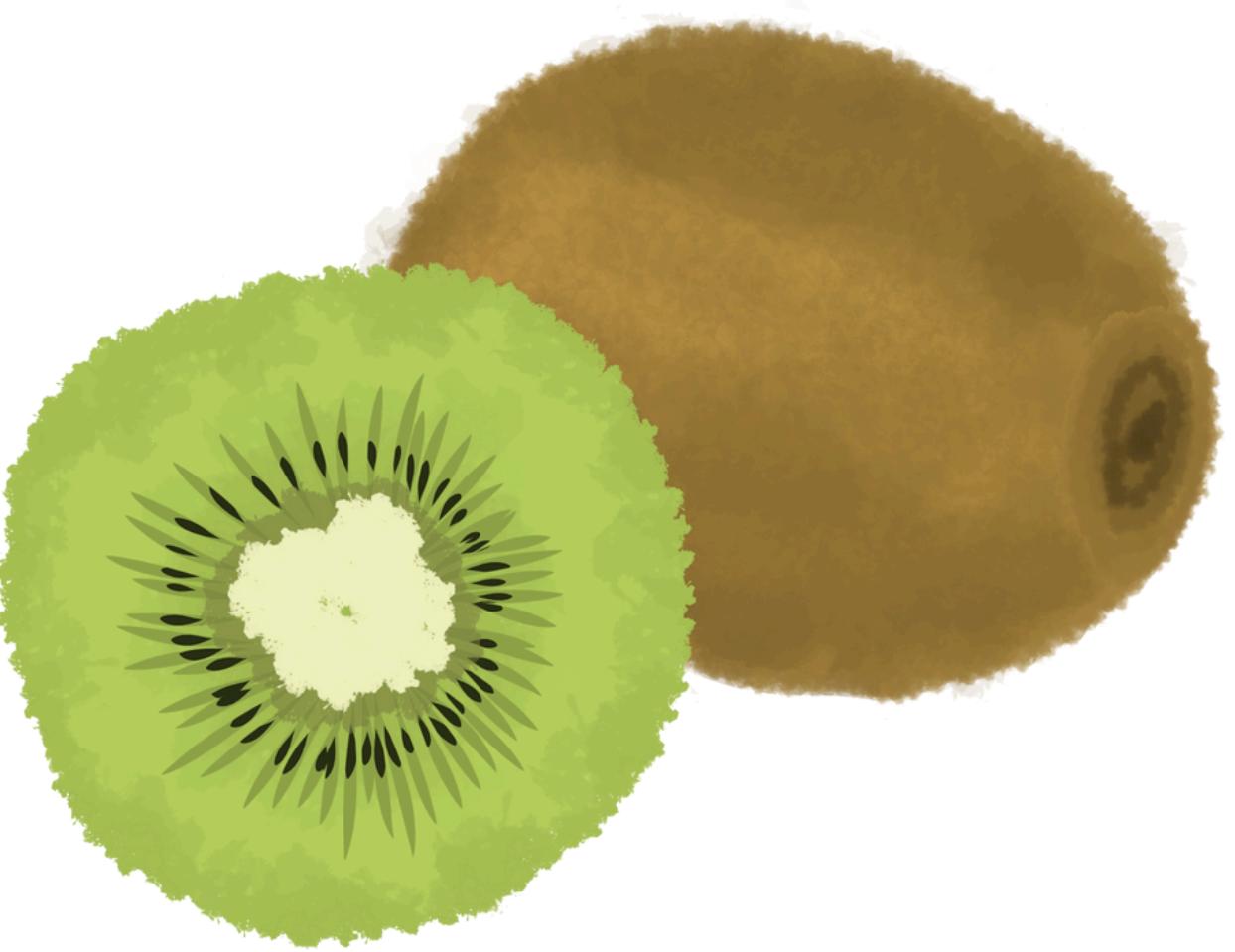


CHALLENGES & RISKS

- ACCURACY OF THE AI MODEL
- CAMERA PERFORMANCE ACROSS DEVICES
- COMPATIBILITY ISSUES
- BATTERY AND PERFORMANCE OPTIMIZATION
- APP STORE APPROVAL

EXPECTED OUTCOME & IMPACT

- IMPROVED FOOD WASTE REDUCTION
- ENHANCED USER CONVENIENCE
- HEALTH AND NUTRITION BENEFITS
- COST SAVINGS FOR USERS
- ENVIRONMENTAL IMPACT



THANK
YOU!

