AI-POWERED RED CROSS DONATION VERIFICATION

AI PHOTO RECOGNITION + IMPACT FRIENDLY

CONCEPT

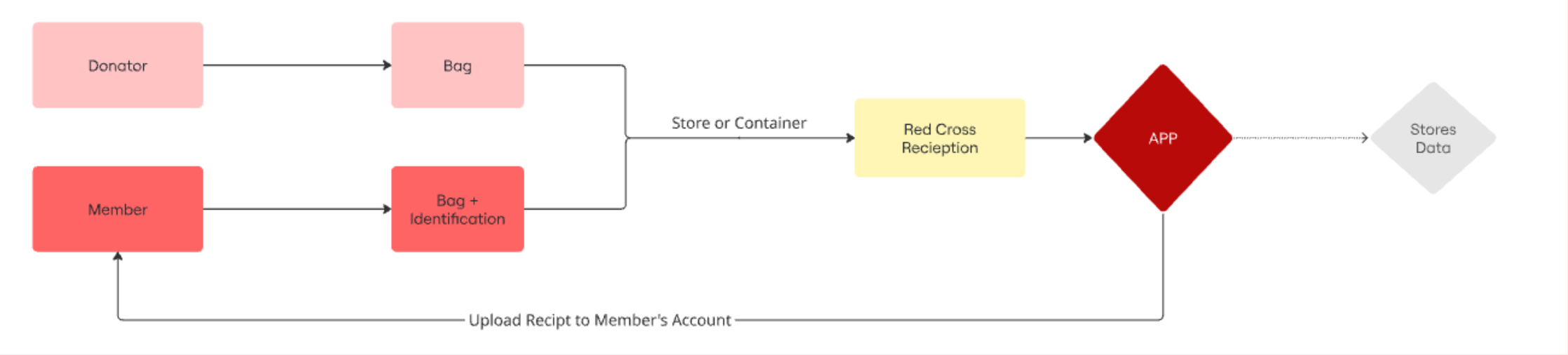
THIS PROJECT AIMS TO MAKE DONATING CLOTHES TO THE RED CROSS FASTER, EASIER, AND MORE REWARDING, DELIVERING AI RECOGNITIONAND IN MICROSOFT POWER AUTOMATE.

The idea encourages people to donate more often by:

1. Saving time (AI automatically recognizes donated items).
2. Contributing to the environment (CO_2 savings are calculated in real time).
3. Offering incentives — users earn points and discounts from partner stores.
4. Providing a bike delivery service for pickups, generating small income and saving even more CO_2: this makes the AI Solution even more effective

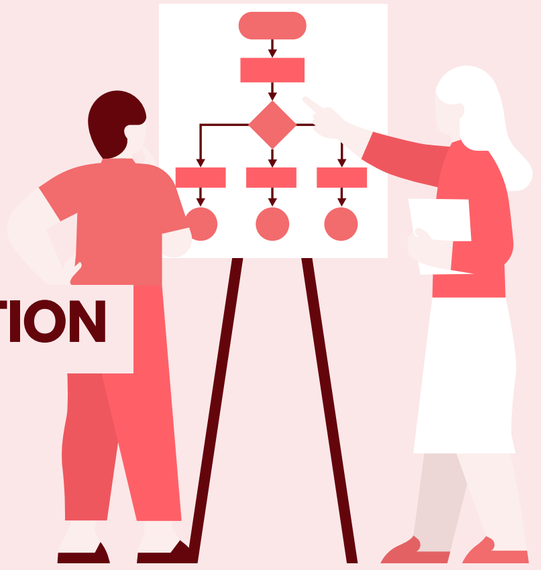
It's a WIN–WIN system:
⏱️ Faster process → 🌱 Less environmental impact → 💰 Added value for users and the organization.

USER JOURNEY



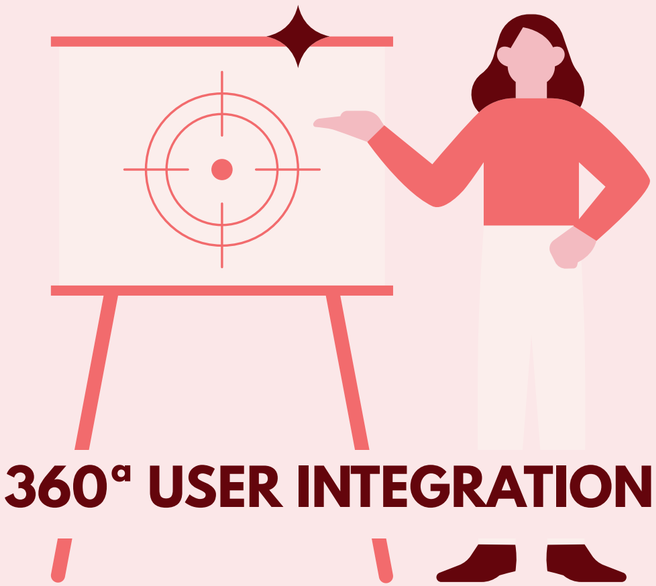
This flow minimizes manual steps, connects physical drop-off to a transparent digital record, and rewards members Boosting donation frequency while cutting volunteer workload.

USER **ORGNAITZATION**



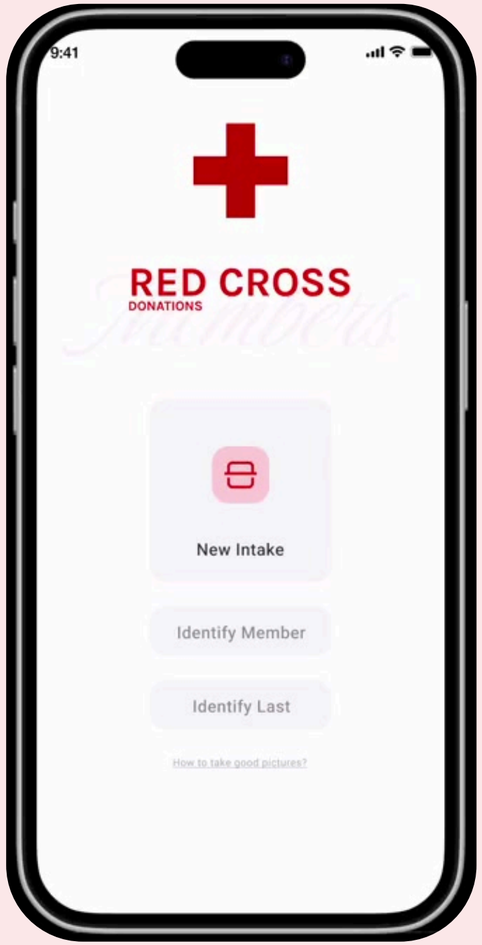
TARGET

- As a donor knowing the estimate CO_2 savings of all my donations and buyings in history is something I'll want to share
- As a user, I want to earn* through donations so I feel rewarded and motivated to participate
- As a volunteer, I want the process to be fast and automatic so I can save time and focus on other tasks when the volume is high.
- As a volunteer I want to upload photos of donation bags so the system can automatically recognize items and know the estimate CO_2 savings.



Prototype

DEMO



MEMBER IDENTIFICATION

AI OBJECT DETECTION

VOLUNTEER SUPERVISION

CONFIRMATION CHECKOUT

SOFTWARES

Power Automate

For no-code automation and AI recognition.

Figma

for prototyping the app interface.

miro

To represent user flow.

Canva

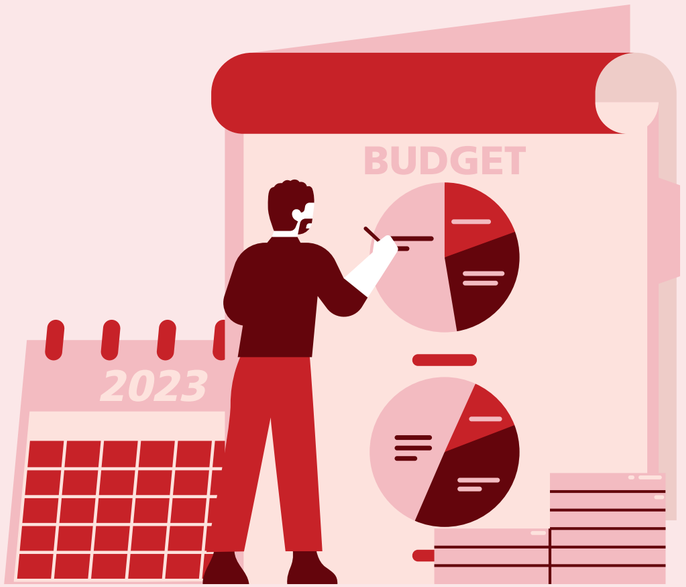
for the final presentation

Business Impact

ENVIRONMENTAL

Method	CO_2 generated per 1,000 bags	Bike delivery compensation	Result
AI Fast Intake (2–3 photos)	**~1.8 kg**	**-9 km by bike**	✅ **Net positive**
AI Detailed Intake (1 photo per item)	~5.4 kg	-27 km by bike	✅ Net positive

ECONOMIC

IF YOU ALREADY HAVE MICROSOFT 365: NO EXTRA PLATFORM OR LICENSE FEES

ONLY PAY FOR AI BUILDER CONSUMPTION, WHICH IS EXTREMELY SMALL