

Pokémon AI Collection User Guide

Version 1.0 RC2
Build 2026-07-02.01



Pokémon AI Collection

Scan • Identify • Price Pokémon Cards

AI-powered identification and collection management

1. Overview

Pokémon AI Collection is a photo-first Progressive Web App (PWA) for scanning Pokémon cards, organizing your collection, tracking market values, and exploring AI-powered collector insights.

The app combines Gemini Vision OCR with the AIPKM V2 Canonical Matching Engine to identify English and Japanese Pokémon cards quickly, accurately, and consistently.

Pokémon AI Collection features a refreshed AI-inspired application icon, providing a consistent visual identity across desktop browsers, installed Progressive Web Apps (PWAs), and mobile devices.

2. Installing Pokémon AI Collection

For the best experience, install Pokémon AI Collection as a Progressive Web App (PWA).

Once installed, the application launches like a native app and provides convenient access from your desktop or mobile home screen.

Note:

This release introduces a refreshed Pokémon AI Collection application icon.

If your device still displays the previous icon after updating, remove the old shortcut or refresh your browser cache before reinstalling the PWA.

3. Design Concepts

- Photo-first experience: Start by taking or choosing a card photo.
- Local browser binder: Your collection is saved in browser storage on your device.
- AI-assisted identification: Gemini Vision OCR reads visible card text before the matching engine identifies the card.
- Canonical V2 matching: A local canonical SQLite database helps match English and Japanese cards quickly and consistently.
- Market-aware portfolio: Saved cards can show verified exact-print market values, weekly movement, and collection totals.
- Installable PWA: The app can be installed from supported desktop and mobile browsers.

4. AI Photo Identification

The scan workflow is designed around a card photo:

1. Take a photo or choose an image from your photo library.
2. Gemini Vision OCR extracts visible card text such as name, HP, type, attacks, set code, rarity, and collector number.
3. The AIPKM V2 matching engine compares that structured evidence with the built-in canonical card database.
4. The app presents the best exact match, the closest alternative match, or guidance when no reliable match can be determined.
5. You can confirm the result and save it to your Binder.

Clear photos work best. Keep the collector number visible, crop to the card only, avoid glare, and fill the frame.

5. Card Database Coverage

Pokémon AI Collection includes a built-in canonical database containing:

- 23,323 English Pokémon cards
- 6,233 Japanese Pokémon cards
- 29,556 verified Pokémon cards
- 268 official Pokémon card sets

The database includes official English expansions, official Japanese expansions, promotional releases, and selected supplemental cards.

The large built-in canonical database enables fast, accurate local card identification without relying solely on live online lookups.

The database will continue to expand as additional verified cards become available in future releases.

6. Where Card Information Comes From

Card identity and matching come from:

- Gemini Vision OCR for reading the card photo
- The AIPKM canonical SQLite database for local card identity matching
- Pokémon TCG API data for pricing and optional enrichment where exact print data is available

Market prices are reference estimates and may differ depending on condition, marketplace, availability, and timing.

This application does not provide investment or financial advice.

7. English And Japanese Card Recognition

English Cards

English cards are matched using the detected card name, set, collector number, HP, type, stage, suffix, rarity, and attack text where available.

Japanese Cards

Japanese card scans use Japanese text recognition, Japanese-to-English Pokémon name support, collector-number normalization, set evidence, rarity cues, and artwork-aware ranking.

When live market or reference data for an exact Japanese printing is unavailable, the app may present the closest corresponding English printing for reference. When the AIPKM V2 canonical database contains the Japanese card, its Japanese identity is preserved.

Examples:

- キラフロル^{ex} → Glimmora ^{ex}
- ホウオウ^{GX} → Ho-Oh-^{GX}
- マスカーニャ^{ex} → Meowscarada ^{ex}

The application attempts to select the English printing whose rarity and artwork most closely correspond to the scanned Japanese card when an English equivalent is used.

8. Scan Results And Matching

After scanning, the app may show one of three result types.

Best Match

The app found a strong exact match.

Closest Match

The app shows the closest available English equivalent based on available Pokémon TCG data so you can still save, organize, and track the card.

No Match

The app could not find a reliable card match. Use a clearer photo or Manual Search.

Manual Search remains available when the scanner cannot confidently match the card.

9. Market Price

Market prices are retrieved for the exact identified print whenever verified market data is available.

If verified market data is unavailable for the exact identified print, the app displays:

``text No current market price ``

Pokémon AI Collection does not estimate a value by substituting a different edition, language, artwork, or promotional printing. This prioritizes print-specific accuracy over potentially misleading price estimates from another edition or language.

Refresh Market Prices (🔄)

Market prices change over time.

Tap 🔄 Refresh Market Prices to retrieve the latest available market prices for all cards in your collection, including those displayed in the Binder and Portfolio.

During the refresh:

- progress is displayed
- the refresh button is temporarily disabled
- Collection values are updated
- Binder values are updated
- Portfolio totals are recalculated
- AI Advisor pricing is refreshed automatically

Cards without verified market data for the exact identified print continue to display:

No current market price

Pokémon AI Collection always displays market prices for the exact identified print whenever available. The app does not estimate prices from different editions, languages, or similar cards.

10. Main Features

Card Scanning

- Scan Card: Take or choose a photo and identify the card.
- Confirm and Add: Review the match, choose condition/finish, and save it to your Binder.
- Manual Search: Search manually when the scan result is uncertain.

Collection

- Binder View: Browse your saved cards.
- Portfolio Dashboard: View collection value, card count, movers, and set breakdowns.
- Refresh Market Prices (🔄): Refreshes the latest available market prices for all cards in your collection, including the Binder and Portfolio.
- Added / Updated Timestamps: Binder cards show when they were first added and last updated.

AI Features & Insights

- AI Collection Advisor: Get collection-level guidance from the backend AI advisor.
- Card Stories: Generate a plain-language story for a saved card.
- AI Pre-Grading Assistant: Request an educational pre-grading style review from a card image.

11. Binder, Timestamps, And Duplicates

Binder cards show:

- Added: When the card was first saved.
- Updated: When the card entry was last changed.

When a duplicate card is added, the app checks:

```
``text cardId + finish + condition ``
```

If the same card already exists, the app asks whether to Add One More. Adding one more increases quantity without creating a duplicate Binder tile.

12. Sample Collection

- First launch includes nine sample cards.
- Sample cards are marked SAMPLE.
- Remove Sample Collection removes only sample cards.
- User cards remain untouched.

13. Collection Backup

Use the More tab, then Collection Backup.

- Export JSON: Recommended full backup format. Includes cards and app metadata.
- Export CSV: Spreadsheet-friendly collection export.
- Import JSON: Merges cards into the current Binder.
- Import CSV: Merges rows into the current Binder.

Imports use merge behavior. Duplicate handling uses:

```
``text cardId + finish + condition ``
```

If no cardId is available, the fallback identity is:

```
``text normalized name + normalized set + normalized collector number + finish + condition ``
```

Export before:

- Clearing browser data
- Reinstalling the PWA
- Moving to another device
- Switching browsers

JSON backup files are compact by design. They keep lightweight card image references, Pokémon TCG image URLs, collection quantities, timestamps, notes, prices, and related card data.

Important: JSON backup files do not include the original scan photos. Only card information and image references are stored.

14. Will My Cards Remain After An Update?

Yes, app updates should keep your collection if you use the same device, same browser/PWA, and same site URL.

Your collection may not carry over if you clear site data, uninstall the PWA, use another browser, or change devices.

Use Export JSON and Import JSON to move or restore your collection.

15. AI Story And AI Grade Check

Saved cards can use optional AI tools:

- Card Story: Generates a plain-language collector story using saved card metadata and available images.
- AI Advisor: Provides collection-level suggestions and observations.
- AI Pre-Grading Assistant: Provides an educational pre-grading style review. It is not an official grade and should not be used as the sole basis for buying, selling, insurance, or valuation decisions.

AI Grade Check works best with clear front and back photos. If only a reference image is available, the app explains that the actual physical card condition cannot be evaluated from the reference image alone.

16. Installing the PWA

Desktop Chrome

1. Open the app in Chrome over HTTPS or localhost.
2. Use the browser install button or menu.
3. Launch Pokémon AI Collection from the installed app shortcut.

Android Chrome

1. Open the app in Chrome over HTTPS.
2. Tap the menu.
3. Tap Add to Home screen or Install app.
4. Launch from the home screen.

iPhone / iPad Safari

1. Open the app in Safari over HTTPS.
2. Tap Share.
3. Tap Add to Home Screen.
4. Launch from the home screen.

17. Offline Behaviour

Available offline after the application has been loaded at least once:

- Binder
- Portfolio
- Local collection browsing

Requires an Internet Connection:

- AI scan
- Price refresh
- AI Advisor
- Card Stories
- AI Grade Check

18. Privacy

- Gemini API keys remain on the backend.
- Collections stay in browser storage unless exported.
- Images and collection summaries are transmitted only to the backend services required to perform the feature you selected.
- The application communicates only with the backend services required for the features you use.

19. Browser Storage

Your collection is stored locally in your browser on your device. Before clearing browser data, uninstalling the PWA, switching browsers, or changing devices, use Export JSON to create a backup.

20. Support

Support Email

teammomo8175@gmail.com

When reporting a problem, please include:

- App Version
- Build Number
- Browser
- Device
- Screenshots whenever possible

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