



# MTG-Forge.com

## Executive Summary

MTG Forge is a sophisticated digital application designed for players of the card game Magic: The Gathering. Its core function is to integrate comprehensive personal card collection management with powerful, AI-driven deck-building assistance. The application's value proposition rests on its ability to provide personalized, intelligent recommendations that enhance the user's strategic options using only the cards they already possess.

The application is powered by Google's Gemini API, which requires users to provide their own key to unlock the full suite of AI features. These include the flagship "AI Deck Suggestions," a context-aware "MTG Chat Assistant" for rules and strategy, and "AI Blueprints" for generating new deck ideas. The entire system is personalized based on a user-defined "Playstyle," which tailors all AI output to the user's preferred formats, budget, power level, and strategic themes.

The user workflow is designed to be systematic: set up the AI, define a playstyle, digitize the physical card collection, and then build or improve decks with AI support. The application's identity is encapsulated by its branding—the name "Forge," an anvil-and-hammer logo, and the tagline "Organize. Collect. Build."—which effectively communicates its purpose as a tool for crafting and refining decks.

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## 1. Core Functionality and User Workflow

The MTG Forge application is structured around a logical workflow that guides users from initial setup to advanced deck optimization.

### 1.1. Onboarding and AI Integration

- **Gemini API Key Requirement:** Full functionality is contingent on the user providing a personal Google Gemini API key. Without this key, core features such as "Deck Suggestions," "MTG Chat," and "AI Blueprint" are disabled.
- **Local Storage:** The API key is stored locally in the user's browser or account settings and is used to make requests on the user's behalf.
- **Setup Process:** Users add the key via the "AI / Gemini API Key" section within the application's Settings page.

## 1.2. Personalization via Playstyle Configuration

To ensure all AI-generated content is relevant, users must first define their personal preferences. This is a critical step that influences all subsequent AI interactions.

- **Location:** Accessed via the "Playstyle" button in the application header.
- **Configurable Parameters:**
  - **Format:** The primary game format (e.g., Commander, Modern, Standard).
  - **Budget:** A defined budget preference (e.g., Budget, No Limit).
  - **Power Level:** The desired competitive level of play.
  - **Themes:** Specific mechanics or strategies the user enjoys (e.g., "Graveyard recursion," "Aggro").

## 1.3. Comprehensive Collection Management

Accurate deck building is predicated on a complete digital inventory of the user's physical cards. MTG Forge provides two primary methods for this task.

- **Method A: Bulk Entry via Sets Page (Recommended)**
  - **Purpose:** The fastest method for digitizing entire binders or set collections.
  - **Table View:** Allows for rapid quantity entry for Non-Foil and Foil versions of every card in a set using keyboard input.
  - **Grid View (Quick Add Modal):** A visual method where users can click on a card image to open a modal and update counts. It supports keyboard arrow keys (Left/Right) to cycle sequentially through an entire set, mimicking the process of flipping through a physical binder.
- **Method B: Individual Card Search**
  - **Purpose:** Best suited for adding single cards or recent acquisitions.
  - **Process:** Users search for a card by name in the "My Collection" section, select the specific printing/version, and set the quantity to add.

## 1.4. Deck Construction and Management

Once a collection is established, users can build and manage decks.

- **Creation:** Decks are created from the "Decks" page, where a format and, if applicable, a Commander must be selected.
- **Card Addition:** Cards are added from the user's "Available Collection." The application intelligently tracks card allocation, automatically updating the "available" count to prevent a single card from being assigned to multiple decks simultaneously.

## 2. Flagship AI-Powered Features

The integration of Gemini AI is the central pillar of MTG Forge's advanced functionality, transforming it from a simple collection tracker into a dynamic deck-building partner.

### 2.1. AI Deck Suggestions

This is presented as the application's flagship feature, designed to offer intelligent and actionable deck upgrades.

- **Analysis Engine:** The AI performs a multi-faceted analysis based on:
  1. The current deck list.
  2. The selected Commander (if applicable).
  3. The user's defined Playstyle preferences.
  4. The entirety of the user's available card Collection.
- **Collection-Bound Recommendations:** A critical constraint of the AI is that it *only suggests adding cards that the user already owns* and has logged in their collection.
- **Output Format:** The suggestions are presented as a list of recommended "Add" and "Remove" actions. Each recommendation is accompanied by a justification ("reasoning") and a rating.
- **User Control:** Users can review the list and deselect any suggestions they disagree with before applying the changes with a single click.

### 2.2. MTG Chat Assistant

This feature provides an always-available AI companion for on-demand information.

- **Function:** Users can ask natural language questions about a variety of topics:
  - **Rules:** Clarifications on game mechanics (e.g., "How does Trample interact with Deathstroke?").
  - **Strategy:** Tactical advice (e.g., "What are good counters to a Cyclonic Rift?").
  - **Lore:** Information about the game's universe (e.g., "Tell me about the Brothers' War.").
- **Context-Awareness:** The assistant is aware of the user's saved Playstyle settings and tailors its tone and advice accordingly (e.g., providing competitive vs. casual suggestions).
- **Data Export:** Conversation histories can be saved and exported as either a text file or JSON for future reference.

### 2.3. AI Blueprints

An advanced feature that allows users to generate new deck ideas without having to build them out card-by-card immediately.

### 3. Application Infrastructure and Data Management

The Settings page serves as the application's control center, offering robust tools for customization, data handling, and maintenance.

#### 3.1. Settings and Customization

Tab	Functionality
<b>General</b>	View account email, log out, configure global UI preferences (e.g., default grid sizes).
<b>AI &amp; Integrations</b>	Update or remove the Google Gemini API key.
<b>Display</b>	Customize the information shown on Card Details modals (e.g., show/hide Oracle text, prices, artist info).
<b>Data</b>	Contains tools for Import/Export, Deck Management, Basic Land Inventory, and Collection Maintenance.
<b>Saved Views</b>	Create, edit, and delete custom filters, sorts, and grouping for the card collection (e.g., "High Value Cards").
<b>Advanced</b>	Contains the "Danger Zone" for irreversible data deletion.

#### 3.2. Data Management and Deletion Protocols

The application provides granular control over user data, with clear distinctions between different types of deletion actions.

- **Deleting Decks:**

- **Standard Delete (Trash Icon):** Deletes the deck list but returns all associated cards to the main collection.
  - **Permanent Delete (Shift + Trash Icon):** Deletes the deck list AND permanently removes all cards within that deck from the user's collection. This is intended for when a physical deck has been sold or dismantled.
- **Deleting Cards:** Cards can be deleted individually from the collection by entering "Edit Mode" on a card's detail page.
- **Clear All Data (Danger Zone):**
  - **Location:** Found in [Settings > Data Management](#) (or [Settings > Advanced](#) in the PDF version).
  - **Effect:** Permanently and irreversibly deletes the user's entire collection, all decks, and all user settings.

## 4. Branding and Identity

The application's branding strongly reinforces its core purpose and target audience.

- **Name and Metaphor:** The name **MTG Forge** evokes a sense of craftsmanship. This is visually supported by a logo featuring a blacksmith's hammer striking a stack of cards on an anvil, symbolizing the act of building and refining a deck.
- **Tagline:** The motto "**Organize. Collect. Build.**" serves as a direct and concise summary of the application's primary functions.
- **Visual Elements:** The logo prominently features the five mana symbols from Magic: The Gathering, immediately identifying its audience. A background motif resembling a circuit board subtly hints at the technological and AI-driven nature of the tool.