

# Gallery View Plugin

## 1. Project Overview

Sigalit Landau Studio maintains all artwork information in a **relational FileMaker Cloud database**, which serves as the central system of record for artworks, editions, ownership data, and internal inventory management.

In addition to the internal database, the studio operates a **WordPress website**, which already includes a **custom plugin** that connects to FileMaker Cloud through the **FileMaker Data API**.

This existing plugin handles authentication, token generation, and initial data retrieval from FileMaker, and will be expanded and extended during this project. It provides the technical foundation for the new system and significantly reduces development time.

Currently, clients receive a **unique link and password** generated by the studio. This private access page allows them to view the specific artwork they purchased and verify their ownership in the studio's records. The new system will build on this concept and evolve it into a fully featured platform for browsing, searching, collecting, and sharing artworks.

The aim of this project is to create a **secure, responsive, gallery-facing interface**, integrated with FileMaker Cloud, that allows authorized galleries to:

- Log in using credentials assigned by the studio
- View artworks available for sale
- Search artworks using multiple fields and filters
- Open full artwork details and images
- Create and manage custom artwork collections
- Mark works temporarily using a Quick Collection
- Place **HOLDS** on artworks for up to 30 days
- Export curated selections to PDF
- Share selections through **time-limited guest view links**
- Maintain all artwork and collection data within FileMaker as the authoritative database

This specification defines all system requirements, workflows, data structures, and technical integrations necessary for design and development.

## 2. System Goals

The Gallery Access System is designed to provide authorized gallery partners with a streamlined, secure, and intuitive interface for viewing and managing selected artworks from the Sigalit Landau Studio archive.

All data originates and remains fully managed in FileMaker Cloud, ensuring accuracy, consistency, and centralized control.

The primary goals of the system are:

### 2.1 Provide Secure Access to Artwork Information

- Offer studio-approved galleries password-protected access to selected artworks.
- Prevent any public access or user self-registration.
- Maintain full administrative control over permissions and data visibility.

### 2.2 Enable Browsing and Searching of Artworks

- Allow galleries to browse artworks available for sale.
- Support structured, field-specific searches using individual inputs:
- Title, Year or Year Range, Category, Series, Materials, Dimensions, and optional Price Range. Each search field applies only to its corresponding FileMaker field. No global free-text search is used.
- Present artworks in a clean, responsive grid with key metadata.

### 2.3 Display Artwork Details and Gallery-Specific Information

- Display the artwork caption (combined title, year, materials, and dimensions) exactly as stored in FileMaker. Additional fields such as Category, Series, Inventory Number, and Current Edition Price may be displayed separately.
- Present Work Text associated with the artwork (description, curatorial text, or artwork statement), as stored in FileMaker.
- Provide a clean, gallery-grade viewing interface suitable for client presentations.
- Display availability indicators based on edition status (Available / On Hold / Not Available).
- Show artworks currently on loan to the gallery, using edition and location information stored in FileMaker.
- Maintain consistent formatting and hierarchy across all artwork detail screens.

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## 2.4 Support Collection Creation and Management

- Allow galleries to create curated selections of artworks (Collections).
- Add artworks to existing collections or create new ones.
- Reorder and manage collection items through an intuitive interface.

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## 2.5 Quick Collection for Temporary Selections

- Use a checkbox to toggle artworks into or out of the Quick Collection. Selected items must be visually highlighted in the grid (e.g., border change, background tint, or selection icon).
- Convert the Quick Collection into a formal saved collection.

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## 2.6 HOLD Mechanism

- Allow galleries to place a 30-day temporary hold on artworks.
- Display HOLD status clearly to all users.
- Automatically release holds after their expiration date.

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## 2.7 Export Tools

- Enable galleries to export collections as branded PDF documents.
- Enable individual artwork image downloads.
- Enable multi-image download, both for multi-image artworks and multiple items within a collection.
- Ensure all exported materials maintain studio branding and visual consistency.

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## 2.8 Sharing With Collectors

- Provide Guest View links with a 7-day expiration.
- Restrict downloads and enforce soft protection (e.g., overlay) in guest mode.
- Present artworks in a clean, distraction-free layout for client presentations.

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## 2.9 Preserve FileMaker as the Central Database

- Store all artworks, editions, gallery records, collections, and holds in FileMaker.
- Use WordPress solely as an access and presentation interface.
- Synchronize all read/write actions through the FileMaker Data API.

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## 3. User Types & Permissions (Final Corrected Version)

The system defines three user types: Studio Administrators, Gallery Personnel, and Guest View Users.

All user identity, authentication, and access control are managed exclusively inside FileMaker.

WordPress serves only as the interface that validates credentials against FileMaker and displays the data.

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### 3.1 Studio Administrators

#### Role Description

Internal studio staff responsible for creating gallery access accounts, managing artworks, editions, holds, and all related data inside FileMaker.

#### Permissions

Studio Administrators can:

- Create, edit, and delete gallery access accounts directly in FileMaker
- Define the single User ID for each gallery (one account per gallery)
- Manage all gallery metadata (name, contact person, email, phone, notes)
- Fully manage artworks, images, editions, and availability
- Oversee and modify holds
- View and edit any collection created by any gallery
- Upload and update artwork images and work texts
- Send or manage guest view links
- Maintain all database logic within FileMaker

## System Presence

- Administrators work solely inside FileMaker
- WordPress is used only for configuration and as the web interface
- Login validation is always done against FileMaker-stored credentials

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## 3.2 Gallery Personnel

### Role Description

Authorized personnel of a gallery.

Each gallery receives one User ID and password, created in FileMaker, which all relevant gallery staff use collectively.

### Permissions

Gallery Personnel can:

- Log in via WordPress using credentials stored in FileMaker
- Browse artworks available for sale
- View complete artwork details, including images and work text
- Perform advanced searches and filtering
- Build Quick Collections
- Create, edit, and manage curated collections stored in FileMaker
- Download single or multiple images
- Export collections to PDF
- Place and release 30-day holds
- View artworks currently on loan to their gallery
- Generate time-limited (7-day) guest view links for collectors

### Restrictions

Gallery Personnel cannot:

- Create, modify, or delete user accounts
- Access other galleries' collections or data
- Change artwork metadata
- Access FileMaker directly
- Modify hold logic or expiration settings
- Access any restricted artworks not marked for sale or display

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### 3.3 Guest View Users

#### Role Description

External collectors or partners accessing a shared collection through a secure, temporary link generated by a gallery.

#### Permissions

Guest users can:

- View artwork images and captions in a presentation-focused layout
- Navigate through the shared selection

#### Restrictions

Guest users cannot:

- Log in
- Access search, collections, or other galleries
- Download images or save them (soft blocking plus restricted download)
- Access expired links
- Modify any data

## 4. Database Structure (High-Level)

All artwork information and gallery-related data is stored and managed in a relational FileMaker Cloud database.

The system uses existing tables (works\_catalog, edition\_catalog, etc.) and includes new tables created specifically to support gallery access, collections, holds, and presentation features.

## **4.1 Existing Tables Used in the System**

### **4.1.1 works\_catalog**

Primary table for all gallery-facing search, listing, and artwork detail operations.

Backend mandatory filter applied to all queries: Available for sale = "yes"

This field is never shown in the UI and never returned to the API.

It is only used internally to determine which artworks the gallery may access.

The system displays the caption field from works\_catalog as the complete descriptive line (title, year, materials, dimensions). Underlying fields such as work\_name, creation\_year, materials\_for\_caption, and dimensions\_\* are used for filtering only, not for display.

### **4.1.2 edition\_catalog**

Used only for identifying artworks currently on loan to the gallery.

Relevant fields:

- edition\_id
- work\_id\_fk
- Status
- Loaned\_to / Location

No other edition data is used by the gallery interface.

Returned artworks must still satisfy: Available for sale = "yes"

## **4.2 New Tables Created for the Gallery Access System**

### **4.2.1 Galleries**

Stores login credentials and identity for each gallery.

Each gallery has exactly one account.

Fields:

- gallery\_id
- GalleryName
- ContactPerson
- Email
- Phone
- Username
- Password
- Notes
- CreatedAt
- ModifiedAt

#### **4.2.2 Gallery\_Collections**

Represents curated selections created by a gallery.

Fields:

- collection\_id
- gallery\_id\_fk
- CollectionName
- Description
- IsActive
- CreatedAt
- ModifiedAt

#### **4.2.3 Gallery\_Collection\_Items**

Join table linking artworks to collections.

Fields:

- collection\_item\_id

- collection\_id\_fk
- work\_id\_fk
- SortOrder
- ItemNotes
- CreatedAt
- ModifiedAt

#### **4.3 Relationships (High-Level)**

- works\_catalog 1 → many edition\_catalog
- Galleries 1 → many Gallery\_Collections
- Gallery\_Collections 1 → many Gallery\_Collection\_Items
- Gallery\_Collection\_Items many → 1 works\_catalog
- (Optional future): HOLD table linking Galleries ↔ works\_catalog

#### **4.4 API-Relevant Field Set**

All API search and listing operations apply this mandatory backend rule: Available for sale = "yes"

The field is not visible to the gallery and never appears in responses.

#### **Fields exposed from works\_catalog:**

- work\_name
- creation\_year
- work\_category
- Work Series
- materials\_for\_caption
- dimensions\_work\_h
- dimensions\_work\_w
- dimensions\_work\_L

- current edition price
- (plus images, work text, inventory number, and any required display metadata)

**Fields used from edition\_catalog (loan view only):**

- work\_id\_fk
- Status
- Loaned\_to

## 4.5 Image Storage & Naming Convention

### 1. Physical Storage

- All artwork images are stored on the **WordPress server** (e.g. /wp-content/uploads/...).
- FileMaker does **not** store binary images for the gallery interface.

### 2. Reference in FileMaker

- In works\_catalog, only the **first image** of each artwork is stored.
- Field name: **image\_location** (Text).
- Example value:  
2015\_Dead Sea Bride.jpg

### 3. Naming Convention

- All images for a given artwork share the same **base name pattern**:  
YEAR\_Work Name
- File extension is .jpg / .JPG (case-insensitive).
- Additional images are stored in the same WordPress folder and have filenames that **start with the same base**.
- Examples for a work called *Salt Bride* from 2015:
  - 2015\_Salt Bride.jpg (primary image)
  - 2015\_Salt Bride\_2.jpg
  - 2015\_Salt Bride\_detail.jpg
  - 2015\_Salt Bride\_installation.jpg

4. The exact suffix (\_2, \_detail, etc.) is **not stored in FileMaker** – only the first filename is.

## 5. Plugin Logic to Resolve All Images

When loading images for an artwork:

- Read image\_location from works\_catalog, e.g.: 2015\_Salt Bride.jpg
- Derive the **base name** by stripping the extension: 2015\_Salt Bride
- Look in the configured image directory (e.g. /wp-content/uploads/artworks/) for **all files whose filename starts with this base** (case-insensitive), for example:
  - 2015\_Salt Bride.jpg
  - 2015\_Salt Bride\_2.jpg
  - 2015\_Salt Bride\_detail.jpg
- Sort the matches in a stable order (e.g. alphabetical).
  - The **first file** in the sorted list is the **main image**.
  - All other files are **additional images** for the gallery strip / multi-download / guest view.
- Construct full URLs for each file and return them to the front end as an array, e.g.:
 

```
"images": [
```

  - "https://example.com/wp-content/uploads/artworks/2015\_Salt Bride.jpg",
  - "https://example.com/wp-content/uploads/artworks/2015\_Salt Bride\_2.jpg",
  - "https://example.com/wp-content/uploads/artworks/2015\_Salt Bride\_detail.jpg"
  - ]

## 6. Single-Image Artworks

- If only the primary image exists (only YEAR\_Work Name.jpg in the folder):

- The plugin will find only one file.
- The UI will show just one image and hide any “additional images” strip.

## 7. Usage in Screens

- **Search Grid:** uses only the **first image URL** as thumbnail.
- **Artwork Detail View:**
  - Main viewer shows the first image.
  - Additional images strip shows the rest.
- **Downloads:**
  - “Download image” → first image only.
  - “Download all images” → all files found via base pattern.
- **PDF Export & Guest View:**
  - Use the image URLs resolved from this base-name logic.

## 5. Application Flow (User Journey Overview)

The Application Flow describes the complete journey of a Gallery Personnel user, from login to discovering artworks, viewing details, creating collections, placing holds, exporting assets, and sharing selections.

All database interactions occur through the WordPress plugin, which communicates with FileMaker Cloud.

The gallery experience consists of seven main stages:

1. Login & Authentication
2. Search & Discovery
3. Artwork Detail View
4. Quick Collection
5. Saved Collections
6. Hold System
7. Exports & Sharing

## 5.1 Login & Authentication

1. The user navigates to the secure login page.
2. The user enters Username and Password.
  - Credentials are stored in FileMaker (Galleries table).
3. WordPress sends the credentials to the FileMaker Data API for validation.
4. If the credentials are valid:
  - A session is created for the user
  - The associated gallery\_id is loaded
  - The user is redirected to the Search & Discovery screen
5. If the credentials are invalid:
  - An error message is displayed: "Incorrect username or password."
6. No registration or password recovery functionality is provided.
7. One login per gallery; shared by the gallery personnel.

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## 5.2 Search & Discovery Flow

1. After login, the user arrives on the Artwork Search / Browse screen.
2. On initial load, before any search or filters are applied, the system automatically retrieves:
  - 25 randomly selected artworks
  - Filtered from works\_catalog
  - Where the mandatory backend rule applies: "Available for sale = "yes"
3. The user may refine the results through:
  - Title
  - Category filters (work\_category)
  - Series filters (Work Series)
  - Year or year-range filters (creation\_year)

- Dimension range filters (dimensions\_work\_h, \_w, \_L)
- Price range (optional)
- Logical queries: AND, AND NOT
- Special filter: Works on loan to my gallery
  - Uses lookup from edition\_catalog
  - Still returns only works where Available for sale = "yes"

4. Search results update dynamically (AJAX).

5. Each artwork card displays:

- Thumbnail image
- Work name
- Caption (year, materials, dimensions)
- Category
- Button: Add to Quick Collection
- Click/tap → opens the Artwork Detail View

### **5.3 Artwork Detail View**

When the user selects an artwork:

1. The system loads all fields needed from works\_catalog, including:
  - Display the caption field as the primary descriptive information. Additional metadata displayed includes Category, Series, Inventory Number, Edition Price (optional), and Loan Status.
2. Additional information from edition\_catalog is loaded only when needed, specifically:
  - Whether the artwork (edition) is currently on loan to this gallery.
3. On this screen, the user may:
  - Add the artwork to a Saved Collection
  - Toggle Quick Collection checkbox
  - Place or remove a 30-day Hold

- Download one or multiple images
  - Export the artwork to PDF (single-work PDF)
  - Return to Search results
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## 5.4 Quick Collection Flow

Quick Collection is a temporary, session-based tool for fast selection.

1. Any artwork can be marked “Add to Quick Collection” from either Search results or Artwork Detail.
2. Quick Collection stores artwork IDs locally in the browser session (not in FileMaker).
3. Opening the Quick Collection shows:
  - All selected artworks
  - Options to remove items
  - Two main actions:
    - Create a new Collection
    - Add all items to an existing Collection
4. After use, the Quick Collection is:
  - Cleared manually by the user, or
  - Automatically cleared on logout or session expiration.

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## 5.5 Saved Collections Flow

Saved Collections are persistently stored in FileMaker.

1. User opens My Collections.
2. Plugin loads all collections where gallery\_id\_fk matches the current user’s gallery.
3. Selecting a collection displays:
  - All artworks in it
  - Items in SortOrder
  - Ability to open each artwork in detail view

- Ability to reorder artworks (drag-and-drop)
  - Ability to remove artworks
  - Ability to rename the collection
4. Additional actions available from the collection page:
- PDF export (multi-artwork PDF)
  - Multi-image download (all artwork images in the collection)
  - Generate Guest View link

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## 5.6 Hold System Flow

The Hold feature lets galleries temporarily reserve artworks.

1. On the Artwork Detail View, if eligible, a button shows: “Place Hold (30 days)”.
2. When pressed:
  - Plugin sends the hold request to FileMaker
  - FileMaker logs:
    - Gallery ID
    - Work ID
    - Hold start timestamp
    - Hold expiration timestamp
3. After placement:
  - Artwork becomes On Hold for all galleries
4. When expired:
  - Hold is automatically released by:
    - WordPress cron job or
    - FileMaker Server script
5. Galleries may remove their own active holds if permitted.

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## 5.7 Exports & Sharing Flow

## Exports

Available from the Artwork Detail View or Collection View:

1. Single-image download
2. Multi-image download
  - All images belonging to the artwork or the entire collection
3. PDF export
  - Contains one or multiple artworks
  - Studio-branded layout
  - High-quality and consistent formatting

## Guest View Sharing

1. The user selects a collection and presses “Share Collection”.
2. Plugin generates a secure share link with:
  - Unique token
  - Encrypted hash
  - 7-day expiration timestamp
3. The share link is stored in FileMaker or WordPress (per implementation).
4. Guest user opens the link:
  - No login required
  - Can view images and artwork captions
  - Cannot download images
  - Cannot take screenshots (soft overlay + JS deterrents)
  - Cannot access search or other collections
5. After expiration, the link becomes invalid.

## 6. Screen Specifications

## 6.1 Login Screen

### Purpose

Allows authorized Gallery Personnel to log in using credentials stored in FileMaker (Galleries table).

No registration or password recovery is available.

### Layout Structure

#### 1. Header

- Studio logo OR
- Minimal text: “Sigalit Landau Studio – Gallery Access”

#### 2. Background (Optional)

- Random artwork image (blurred / low opacity)
- Decorative only

#### 3. Login Form

##### Form Fields

- Username
- Password

##### Buttons

- Log In
  - Validates credentials against FileMaker
  - Success → redirect to Search screen
  - Failure → show error + increment failed attempts

##### Links

- Back to [sigalitlandau.com](http://sigalitlandau.com) (opens in new tab)

#### 4. Error Handling

- If credentials are incorrect:
  - Display: “Incorrect username or password.”

## 5. Login Attempt Limit & Lockout Policy

To protect against brute-force attempts:

### Allowed Attempts

- Maximum of 5 failed login attempts per user session.

### Lockout Behavior

- After 5 failed attempts:
  - Login is temporarily disabled for that user's IP + browser session.
  - Show message:  
"Too many login attempts. Please try again in 15 minutes."

### Lockout Duration

- Default: 15 minutes
- Configurable inside the plugin settings.

### Tracking

The system tracks failed attempts via:

- Session variables, and
- A lightweight server-side log (FileMaker field or WP transient)

### Reset Conditions

- Successful login resets attempts to 0
- Lockout automatically resets after the cooldown period

## 6. Technical Behavior

### Authentication Flow

1. User submits { username, password }
2. Plugin checks if:
  - Lockout is active → block immediately

3. If allowed:
  - Send credentials to FileMaker
4. On valid credentials:
  - Receive gallery\_id
  - Start authenticated WP session
  - Redirect to Search screen
5. On invalid credentials:
  - Increment failed-attempt counter
  - Display error
  - If attempts reach 5 → activate lockout

## Security

- HTTPS only
- No credential caching
- Automatic session timeout (recommended 12 hours)

## 6.2 Search & Discovery Screen

### 6.2.1 Initial Load Behavior

On entering the Search screen:

- System retrieves **25 randomly selected artworks**
- Each artwork includes:
  - Thumbnail image
  - **Caption** (Work name + year + materials + dimensions)
  - Category
  - Series (optional)
  - Additional metadata as needed for filters

No manual formatting is required — all descriptive information is already included in:

## **caption**

### **6.2.2 Search Bar**

- The search form includes separate fields for: Title, Year, Category, Series, Materials, Dimensions, and optional Price Range. Each field applies to its corresponding FileMaker field. No general free-text search is used.

### **Displayed Search Result Text**

- Always display the **caption** in the result card
- No need to decompose name + year + materials + dimensions

### **6.2.3 Filters Panel**

Filters are still based on underlying fields, but displayed results rely on the caption.

Filters include:

- Work Category (work\_category)
- Work Series (Work Series)
- Year (creation\_year)
- Dimensions (H/W/L)
- Optional: edition price

### **Search results continue to display only:**

- Thumbnail
- **Caption**
- Category
- Quick Collection checkbox (with visual highlight when selected)

### **6.2.4 Results Grid**

Each artwork card contains:

- Thumbnail image
- **Caption** (complete descriptive text from FileMaker)

- Category (optional small tag)
- Add to Quick Collection button
- Click → opens Artwork Detail View

**No separate name/year/materials/dimensions elements.**

**Caption handles all of it.**

### 6.2.5 Loaned to My Gallery

When filtering by loan status:

- System checks edition\_catalog
- Returned results must still satisfy Available for sale = "yes"
- Displayed results still use:

**caption**

### 6.2.6 No Results

"No artworks matched your search criteria."

The caption is *not* recomputed — it's pulled directly.

## 6.3 Artwork Detail View

### Purpose

The Artwork Detail View presents complete information for a single artwork and enables the gallery user to perform all relevant actions: adding to collections, downloading images, placing holds, and exporting.

This screen uses data from works\_catalog, limited data from edition\_catalog, and images retrieved from the WordPress filesystem.

### 6.3.1 Layout Structure

The screen consists of:

1. **Top Navigation Bar**
2. **Main Image Viewer**
3. **Artwork Metadata Panel**

- 4. Actions Panel**
- 5. Additional Images Strip**
- 6. Work Text Section**
- 7. Back Navigation**

### 6.3.2 Top Navigation Bar

Consistent with other screens:

- Studio Logo / Name
- Navigation tabs:
  - **Search**
  - **My Collections**
  - **Loaned to My Gallery**
- Quick Collection icon (with item count)
- User Menu (Gallery name, Logout)

### 6.3.3 Main Image Viewer (Updated with WordPress Image Logic)

#### Image Source

Artwork images are **not stored in FileMaker**.

Instead:

- FileMaker stores **only the first image filename** in image\_location
  - Example: 2015\_Salt Bride.jpg
- All images are stored in the **WordPress filesystem**, in a predefined directory
  - Example: /wp-content/uploads/artworks/

#### Image Resolution Logic

1. Plugin reads image\_location from works\_catalog.
2. Extracts the **base name** by removing file extension:
  - 2015\_Salt Bride

3. Scans the artwork image directory for **all files that begin with this base**, e.g.:
  - 2015\_Salt Bride.jpg
  - 2015\_Salt Bride\_2.jpg
  - 2015\_Salt Bride\_detail.jpg
4. Sorts filenames alphabetically.
5. The first item is the **main image**.

## Viewer Features

- Large responsive display
- Click/tap to enter fullscreen mode
- Zoom-in capability
- Swipe or arrow navigation for multiple images
- Smooth preloading of next/previous image

### 6.3.4 Artwork Metadata Panel

Loaded entirely from works\_catalog: Display the caption field exactly as stored in FileMaker (combined title, year, materials, dimensions). Display Category, Series, Inventory Number, and Edition Price separately if required.

#### Loan Indicator

Loaded from edition\_catalog (only for this feature):

If the artwork is currently on loan to the gallery:

- Display a highlighted tag:  
**“On loan to your gallery”**

### 6.3.5 Actions Panel

A persistent side panel (desktop) or collapsible drawer (mobile).

#### Available Actions

##### 1. Add to Quick Collection

- Immediate action

- Displays small confirmation message

## 2. Add to Saved Collection

Opens a modal with:

- List of the gallery's collections
- Button: **Create New Collection**

## 3. Place Hold (30 Days)

- Visible only if the artwork is eligible
- If pressed:
  - Plugin sends request to FileMaker
  - FileMaker stores hold start and expiration date
  - UI updates to:  
**“On hold until [DATE]”**

## 4. Release Hold

- Shown only if:
  - The artwork is currently on hold **by this gallery**
- Pressing it removes the hold in FileMaker

## 5. Download Image

- Downloads the **main image** only
- Direct download from WordPress filesystem

## 6. Download All Images

- Downloads a ZIP containing:
  - All images resolved via the base-name match
  - Pulled from the WordPress filesystem

## 7. Export PDF

- Generates a single-artwork PDF
- Uses image files retrieved from WP filesystem
- Applies studio-branded layout

### 6.3.6 Additional Images Strip

If multiple images exist for this artwork:

- A horizontal thumbnail strip is shown beneath the main viewer
- Clicking thumbnails updates the main viewer
- Supports drag-scroll (desktop) and swipe (mobile)

If **only the primary image exists**, the strip is hidden.

### 6.3.7 Work Text Section

- Displays full work\_text from works\_catalog
- Supports multiple paragraphs
- Optional “Show more / Show less” collapse for long texts
- Clean typography with no formatting injection

### 6.3.8 Back Navigation

A simple link/button:

#### “Back to Results”

- Returns user to the Search screen
- Restores previous scroll position and current search filters

### 6.3.9 Edge Cases

#### If main image file is missing

- Show fallback placeholder
- Still display metadata and actions

#### If no additional images exist

- Hide the gallery strip entirely

#### If hold cannot be placed

- Hide the “Place Hold” button
- Optional explanation tooltip:  
“This artwork cannot be placed on hold.”

### If filename contains forbidden characters

- Plugin normalizes/escapes characters before file lookup

## 6.4 Quick Collection

### Purpose

Quick Collection is a temporary, session-based selection tool that allows gallery personnel to mark artworks while browsing and later add them to a permanent Collection. It is **not stored in FileMaker** — only in the browser session.

### 6.4.1 Selection Mechanism

#### Checkbox Control

Each artwork card (in Search Grid and Artwork Detail View) includes a **Quick Collection checkbox**.

- **Checked** → artwork is in Quick Collection
- **Unchecked** → artwork removed
- Changes update in real time
- Checkbox stays synced between Grid and Detail View

### 6.4.2 Visual Highlight in Grid

When a checkbox is checked, the artwork card visually changes:

- Highlighted border **or**
- Light background tint **or**
- “Selected” badge

Users must easily recognize selected items at a glance.

### 6.4.3 Quick Collection Indicator

A persistent UI element in the top navigation showing:

- Icon
- Counter (e.g., **Quick Collection (7)**)

Clicking opens the Quick Collection panel.

### 6.4.4 Quick Collection Panel / Screen

#### Displayed Items

Each artwork appears with:

- Thumbnail from /artworks/small/
- **Caption**
- Optional: Category / Series
- Checkbox to remove

#### Actions

##### A. Create New Collection

- Opens modal:
  - Collection Name
  - Optional Description
- Creates record in Gallery\_Collections
- Adds all items to Gallery\_Collection\_Items

##### B. Add to Existing Collection

- List of gallery's collections
- Adds selected artworks (no duplicates)

### C. Clear Quick Collection

- Removes all items
- Unchecks all checkboxes

#### 6.4.5 Storage

Stored only in:

- localStorage or sessionStorage

Clears on logout, expiration, or manual clear.

#### 6.4.6 Behavior Across Searches

- Selected artworks remain selected in all views
- If artwork appears again → checkbox stays checked
- If not visible → still in Quick Collection panel

#### 6.4.7 Error Handling

If localStorage fails:

- Non-blocking notice:  
**“Could not save selection. Please re-select artworks.”**

If artwork becomes unavailable:

- Auto-removed from Quick Collection

## 6.5 Saved Collections

### Purpose

Saved Collections are curated sets of artworks stored in FileMaker and used for exporting, sharing, and internal gallery workflows.

### 6.5.1 Layout Structure

#### A. Collection List Panel (Left)

Shows all collections belonging to the gallery:

- Name
- Artwork count
- Date created
- Highlight selected collection

#### B. Selected Collection View (Right)

Grid/list of artworks including:

- Thumbnail (from /artworks/small/)
- **Caption**
- **Edition Number**
- **Edition Price**
- Remove icon
- Drag handle (reordering)

Order is based on SortOrder in Gallery\_Collection\_Items.

### 6.5.2 Collection Actions

#### Rename Collection

Updates FileMaker.

#### Delete Collection (*optional*)

Removes collection + items.

#### Add From Quick Collection

Adds all selected artworks (no duplicates).

## Export Collection

### A. PDF Export

One page per artwork containing:

- Main image (full size)
- Caption
- Category / Series
- Inventory number
- **Edition Number**
- **Edition Price**

### B. Download All Images (ZIP)

- One folder per artwork
- Inside each folder → all full-resolution images

### C. Share Collection (Guest View)

Generates 7-day tokenized link.

### 6.5.3 Create New Collection

User enters:

- Name
- Optional description

Then new collection opens empty.

### 6.5.4 Empty Collection State

If empty:

**"This collection is empty. Use Quick Collection to add artworks."**

Button: **Add from Quick Collection**

### 6.5.5 Error Handling

If artwork missing → placeholder.

If export fails → "Export failed — try again."

For large collections → display spinner / progress.

---

## 6.6 Hold System

### Purpose

Holds allow galleries to temporarily reserve an artwork for 30 days.

On Hold (Expired) — Auto-revert to Place Hold

### 6.6.1 Where Holds Appear

Only in **Artwork Detail View**.

States:

1. **Place Hold (30 days)**
2. **On Hold by This Gallery — Release Hold**
3. **On Hold by Another Gallery**
4. **Hold Not Available (optional)**
- 5.

### 6.6.2 Hold Placement Flow

1. User clicks **Place Hold**

2. WP sends FM:

- gallery\_id

- work\_id
  - HoldStart, HoldEnd
3. UI updates instantly
  4. Hold displayed with **expiration date**

### 6.6.3 Hold Release

If gallery placed the hold:

- Button: **Release Hold**
- FM sets Active = 0

### 6.6.4 Hold Expiration

Automatic expiration by either:

- FM server script (recommended), or
- WP cron job

After expiration → returns to **Place Hold** state.

### 6.6.5 Visual Requirements

Hold status must be **prominent**, under caption using color-coded tags:

- Yellow: On Hold
- Blue: Your Hold
- Gray: Not available

### 6.6.6 Interactions with Other Modules

- Quick Collection unaffected
- Collections unaffected

- Holds **not shown** in Guest View

---

## 6.7 Exports & Downloads

### Purpose

Enable galleries to export artwork / collection materials in various formats.

#### 6.7.1 Export Types

##### A. Single Image Download

- Downloads full-resolution main image
- Source: /artworks/filename.jpg

##### B. Multi-Image Download (Artwork)

ZIP containing all full-resolution images:

- discovered via base-name pattern matching

##### C. Multi-Image Download (Collection)

ZIP with folder structure:

CollectionName/

    Artwork1/

        image1.jpg

        image2.jpg

    Artwork2/

    ...

##### . Single Artwork PDF

Includes:

- Full image
- Caption
- Category
- Series
- Inventory number
- **Edition Number**
- **Edition Price**

## **E. Collection PDF Export**

One page per artwork with:

- Full image
- Caption
- Category
- Series
- Inventory
- **Edition Number**
- **Edition Price**

### **6.7.2 Image Source Logic**

Thumbnails:

/artworks/small/\*.jpg

Full images:

/artworks/\*.jpg

PDF + ZIP always use full images.

### 6.7.3 Error Handling

Missing image → placeholder.

ZIP/PDF error → user alert.

Large collections → background job with progress UI.

---

## 6.8 Guest View (Shared Collection Viewer)

### Purpose

A clean, read-only public interface for collectors who receive a shared collection link.

### 6.8.1 Content Shown

For each artwork:

- Large main image
- **Caption**
- **Edition Number**
- **Edition Price**
- (Optional) Category / Series

### 6.8.2 Restrictions

Guest View does **NOT** allow:

- Downloads
- Quick Collection
- Hold

- Edit
- Search
- Navigation
- Viewing other collections

### 6.8.3 Token & Expiration

- Secure 32-byte token in URL
- Stored in FileMaker / WP transient
- Link expiration: **7 days**
- After expiration:  
**“This link has expired.”**

### 6.8.4 Visual Style

- Minimal white layout
- Large images
- Caption + edition/price below
- No controls except scroll

### 6.8.5 Performance

- Load thumbnails first
- Replace with full images on scroll
- Pre-cached collection data optional

## 7. System Architecture

The system consists of **three coordinated layers**:

1. **WordPress Front-End + Custom Plugin**
2. **FileMaker Cloud (Data Layer)**
3. **WordPress Filesystem (Image Storage: full + thumbnails)**

### 7.1 Architectural Overview

#### A. WordPress Front-End + Plugin

The WordPress plugin is the application engine. It handles:

- UI generation (Search, Detail View, Collections, Quick Collection, Hold System, Guest View)
- All communication with FileMaker (server-to-server API calls)
- Loading images from the filesystem (full size + thumbnails in /small/)
- Download operations (ZIPs, PDFs)
- Quick Collection management (client-side only)
- Session management
- Guest View token generation and validation

The front-end is client-rendered and must be lightweight.

#### B. FileMaker Cloud

Acts as the **source of truth** for:

- artworks (works\_catalog)
- caption
- category / series / year / dimensions
- edition number
- edition price

- inventory / internal IDs
- availability
- edition\_catalog loan status
- gallery users
- collections data
- hold records
- optional: guest view tokens

Everything that is “data” comes from FileMaker.  
WordPress never stores permanent artwork data.

## C. WordPress Filesystem

Stores all artwork **images**, in two parallel folders:

### 1. Full-resolution images

/wp-content/uploads/artworks/

### 2. Thumbnails (“small” folder)

/wp-content/uploads/artworks/small/

- Same filenames for full + thumbnails
- Thumbnail images are used for:
  - Search Grid
  - Collection View
  - Quick Collection
  - Guest View initial load
- Full images are used for:
  - Artwork Detail View (after preview)

- PDF export
  - ZIP export
- 

## 7.2 Data Flow

### 7.2.1 Login

1. WordPress sends username + password to FileMaker
2. FileMaker returns gallery\_id
3. WordPress stores session with:
  - gallery\_id
  - gallery\_name
  - session timestamp

### 7.2.2 Search

1. WP plugin sends field-specific filters to FileMaker:
  - title
  - year
  - category
  - series
  - materials
  - dimensions
  - price
2. FileMaker returns metadata (no images)
3. WP attaches:
  - thumbnail URLs (/small/)
4. Front-end renders results

### 7.2.3 Artwork Detail

1. WP requests work metadata via work\_id
2. FM returns metadata
3. WP resolves:
  - All small images
  - All full-resolution images  
via base-name pattern matching
4. Detail View shows small → then loads full

### 7.2.4 Quick Collection

- Stored only in browser memory
- No server interactions
- Export to collections triggers API calls

### 7.2.5 Saved Collections

- WP → FM create / update / remove
- WP maps artworks to images on filesystem
- WP builds PDFs, ZIPs

### 7.2.6 Holds

- WP sends createHold and releaseHold to FM
- FM determines hold validity
- WP displays hold states

### 7.2.7 Guest View

1. WP plugin creates a secure token
2. Token stored in FM or WP (transient)
3. Guest loads link → WP validates token
4. WP loads collection data (from FM or cache)
5. WP loads /small/ thumbnails
6. On scroll → WP replaces with full images

### 7.3 FileMaker Responsibilities

FileMaker manages:

- Authentication
- Artwork metadata
- Availability enforcement (Available for sale = yes)
- Edition number & price
- Loans (from edition\_catalog)
- Collections
- Holds
- Optional Guest View token storage

FileMaker **does not** manage:

- images
- PDFs
- ZIPs

### 7.4 WordPress Plugin Responsibilities

Handles:

- All UI rendering
- Local caching
- API calls to FM
- Image lookup logic
- PDF / ZIP generation
- Quick Collection state
- Token generation for Guest View
- Hold button logic

## 7.5 Image Resolution Logic

### 7.5.1 Filenames

FileMaker stores only:

`image_location = "2015_Salt Bride.jpg"`

### 7.5.2 Base Name Logic

WP extracts:

`"2015_Salt Bride"`

### 7.5.3 WP scans TWO folders:

`/artworks/`

`/artworks/small/`

Matches every file:

- Starting with that base name
- Ending with .jpg / .jpeg

Creates two arrays:

images\_small[]

images\_full[]

Used throughout the system.

---

## 7.6 System Integration Summary

- WordPress drives UI + exports
- FileMaker drives data + logic
- Images stored in WordPress
- All heavy lifting stays off FileMaker
- Guest View entirely served by WP

---

## 7.7 Session Management

- WordPress session
- 12 hours expiration
- 5 failed attempts → 15 min lockout
- Cookies: HttpOnly, Secure, SameSite=Lax

---

## 7.8 Performance Goals

(Expanded in Section 9)

# 8. Security Requirements

This section ensures data protection, secure communication, controlled access, and safe shared links.

## 8.1 Authentication & Sessions

### 8.1.1 Credentials

- Stored only in FileMaker
- Passwords hashed
- No WP users created

### 8.1.2 Login Protection

- Max 5 failed attempts
- Lockout: 15 minutes
- Generic error messages

### 8.1.3 Session Cookies

- HttpOnly
- Secure
- SameSite=Lax

---

## 8.2 Authorization

- Galleries see **only their own** collections, holds, and guest links
- All API calls validated against gallery\_id
- No bypass allowed through the front-end

---

## 8.3 FileMaker API Security

- All requests must use FM Data API tokens
- Tokens never exposed to browser
- WordPress plugin acts as secure proxy

## 8.4 Data Protection

### 8.4.1 Mandatory Availability Filter

FM must enforce:

Available for sale = "yes"

Nothing else may bypass this.

### 8.4.2 Sensitive Data

- Only metadata needed for the UI is returned
- Edition catalog queries return only availability / loan info

---

## 8.5 Guest View Security

### 8.5.1 Token

- 32-byte secure random token
- Stored with expiration (7 days)

### 8.5.2 No Downloads

Guest View blocks:

- ZIPs
- PDFs
- Right-click save (optional soft block)

### 8.5.3 Read-Only

- No search
- No navigation
- No edit
- No holds
- No Quick Collection

## 8.6 Export Security

- All PDF/ZIP operations server-side
  - Sanitization of filenames
  - Temporary files auto-deleted
  - Never expose server paths
- 

## 8.7 Protection Against Attacks

- SQL/API injection blocked
  - Input sanitization everywhere
  - XSS protection (escape captions & text)
  - CSRF tokens for collection/hold actions
  - X-Frame-Options: DENY
  - Strict HTTPS
- 

## 8.8 Image Handling Security

- Only JPEG accepted
  - Filenames sanitized
  - Path traversal blocked
  - Missing images replaced with placeholder
- 

## 8.9 Server Security

- Hardened WP instance
- FM Cloud behind secure endpoint
- Backups daily (FM + WP uploads)

## 9. Performance & Caching

A fast and efficient platform is essential.

This section defines all performance requirements.

---

### 9.1 Image Performance

#### 9.1.1 Two-Tier Image Architecture

- Thumbnails → /artworks/small/
- Full images → /artworks/

#### Grid View

Uses thumbnails only.

#### Artwork Detail

Loads thumbnail first → then full image.

#### Guest View

Loads thumbnails → replaces with full on scroll.

#### Exports

Uses full images only.

---

### 9.2 Search Performance

#### 9.2.1 Field-Specific Search

- No global text search
- Faster FM performance
- Minimal result payload

#### 9.2.2 Pagination / Infinite Scroll

- Return 25–50 artworks per batch

### **9.2.3 Cached Thumbnails**

- WP caches thumbnail URLs for faster re-rendering

## **9.3 FileMaker Load Balancing**

### **9.3.1 Minimize API Hits**

- Batch fetch collection items
- Reuse metadata in front-end memory
- Cache FM results in WP for 30–60 minutes

### **9.3.2 No Images in FM**

All images stored in WordPress only

→ significant performance gain

## **9.4 WordPress Performance**

### **9.4.1 Base-Name Cache**

WP caches results of filesystem scans:

- base-name → {small\_images[], full\_images[]}
- Prevent repeated scans

### **9.4.2 Asynchronous Exports**

Large ZIP/PDF generation performed async if needed.

### **9.4.3 Preload Next Image**

Artwork Detail should preload next image in strip.

## **9.5 Quick Collection**

- Local/session storage

- Zero server calls
- Instant UI updates
- No lag

## 9.6 Collections

### Batch Operations

- Add all artworks in one request
- Reorder sends only final SortOrder array

### Efficient Rendering

- Only modified cards re-rendered
- Virtual scrolling for large collections

## 9.7 Guest View Performance

- Lightweight page; no heavy scripts
- Data optionally cached at link creation
- Thumbnail-first loading
- Full images loaded lazily

## 9.8 Performance Targets

- Search Results: < 500ms (cached), < 1.2s fresh
- Detail View load: < 800ms
- Collections load: < 1s
- Guest View: < 700ms
- ZIP small: < 2s; large: < 10s
- PDF: 3–5s

## 10. Error Handling & Edge Cases

This section defines how the system should behave in all failure scenarios, unexpected states, and boundary conditions, ensuring the application is resilient, predictable, and user-friendly even when errors occur.

### 10.1 General Error Handling Principles

- Errors must never reveal internal system details (FileMaker queries, paths, exceptions).
- Error messages must be short, human-readable, and consistent across the application.
- Failures must not break the UI — always provide a safe fallback.
- User actions should be **optimistic** (UI updates immediately) and then validated in the background.
- If an action fails after optimistic update, the UI must revert with a clear message.

### 10.2 API Communication Errors (WordPress ↔ FileMaker)

#### 10.2.1 Timeouts

If FileMaker API takes too long:

##### User message:

"Connection timeout. Please try again."

System must retry **once**, then fail gracefully.

#### 10.2.2 Authentication Token Errors

If FM token is invalid/expired:

- WordPress must automatically refresh the token.
- User never sees a token error.

If refresh fails:

**User message:**

"Session expired. Please log in again."

User is returned to the Login screen.

### **10.2.3 Data Not Found**

If FM returns missing or deleted artwork:

**User message:**

"This artwork is no longer available."

Artwork card shows placeholder image + disabled actions.

### **10.2.4 Corrupt or unexpected data**

If FileMaker returns malformed data:

- WP logs the issue
- UI uses fallback defaults
- System avoids render crashes

---

## **10.3 Search Errors**

### **10.3.1 No Results**

If no artworks match search criteria:

Display empty-state with message:

"No artworks found for your search."

Provide a button:

**Clear search filters**

### **10.3.2 Invalid Input**

If user enters invalid data (e.g., non-numeric year):

Front-end sanitizes automatically.

If still invalid:

"Please enter valid search values."

### 10.3.3 Very Large Result Sets

If the search returns too many results:

- System automatically paginates
- UI shows “Load more” or infinite scroll

---

## 10.4 Artwork Detail Errors

### 10.4.1 Missing Images

If full image missing:

- Show placeholder
- Show small version if available
- Disable full-screen mode

#### User message:

"Image unavailable."

### 10.4.2 Missing Caption

Rare but possible:

"Caption unavailable."

System continues to show basic metadata.

### 10.4.3 Failed Hold Fetch

If hold status cannot load:

"Unable to load hold status."

Hold button shows “Try again”.

---

## 10.5 Quick Collection Edge Cases

### 10.5.1 LocalStorage Unavailable

Some browsers (incognito, strict privacy) may block localStorage.

Fallback:

- In-memory array
- Clears when page reloads

User sees:

"Your selections will not be saved after closing the page."

### **10.5.2 Artwork Removed Mid-Session**

If artwork disappears from FM:

- It is automatically removed from Quick Collection
- User notified silently (non-blocking toast)

## **10.6 Collections Errors**

### **10.6.1 Failed to Create Collection**

"Unable to create collection. Please try again."

If failure due to duplicate name:

"A collection with this name already exists."

### **10.6.2 Failed to Add Items**

When adding from Quick Collection:

"Some artworks could not be added."

Duplicates quietly ignored.

### **10.6.3 Failed Reorder**

If SortOrder save fails:

UI must revert to previous ordering:

"Unable to update ordering. Please try again."

### **10.6.4 Empty Collection**

Empty-state with button:

“Add from Quick Collection”

---

## **10.7 Hold System Errors**

### **10.7.1 Hold Conflict**

If another gallery places a hold seconds before this user:

"This artwork was just placed on hold by another gallery."

UI immediately updates to the new hold state.

### **10.7.2 Hold Expired During Session**

If viewing a held artwork whose hold just expired:

- UI silently refreshes
- Button becomes “Place Hold (30 days)”

### **10.7.3 Failed Hold Creation**

"Unable to place hold. Please try again."

No partial hold is created.

### **10.7.4 Failed Hold Release**

"Unable to release hold. Please try again."

---

## **10.8 Export Errors (PDF & ZIP)**

### **10.8.1 Missing Image During Export**

PDF/ZIP continues but inserts placeholder.

Silent log stored in WP.

### **10.8.2 ZIP Creation Failure**

"Download failed. Please try again."

### **10.8.3 PDF Generation Error**

"Could not generate PDF at this time."

Retry suggested.

#### **10.8.4 Large Exports**

If export takes too long:

- Show spinner
- Allow user to continue browsing
- Auto-start download when ready

---

### **10.9 Guest View Errors**

#### **10.9.1 Token Expired**

"This link has expired."

No further details revealed.

#### **10.9.2 Token Not Found**

"Invalid link."

#### **10.9.3 Artwork Missing in Guest View**

- Show placeholder image
- Still show caption and edition/price

#### **10.9.4 Rate Limiting**

Guest View endpoints must throttle heavy requests.

---

### **10.10 Image Handling Edge Cases**

#### **10.10.1 Thumbnail Exists But Full Image Missing**

Use thumbnail as fallback.

#### **10.10.2 Full Exists But Thumbnail Missing**

WP auto-generates a temporary thumbnail on the fly.

### 10.10.3 Corrupt JPEG

"Unable to load image."

Fallback to placeholder.

## 10.11 Network & Browser Errors

### Slow Network

- All images lazy-load
- Show responsive skeleton loaders

### Offline Mode

- Grid shows cached thumbnails only
- FM data cannot load →

"Connection lost. Reconnecting..."

### Browser Scaling / Retina

- Use srcset for small vs full images

## 10.12 Fatal Errors (Extreme Edge Cases)

If an unexpected critical failure occurs:

1. UI reverts to safe minimal mode
2. User redirected to Search page
3. Message displayed:

"Something went wrong. Please try again."

System never exposes:

- Stack traces
- API details
- SQL/FM schema

- File paths

## 11. Admin Workflow (Studio Internal Workflow)

This section describes the internal workflow used by **Sigalit Landau Studio** to maintain the system, using FileMaker as the primary administration environment.

All administrative operations are performed inside FileMaker — **not** in WordPress.

This ensures that FileMaker remains the *single source of truth* for all artwork, edition, gallery, and permissions data.

### 11.1 Overview of Admin Responsibilities

The studio administration team manages:

1. **Artworks** (metadata + captions)
2. **Images** (full + small thumbnails, stored in WordPress folder)
3. **Editions** (edition\_catalog)
4. **Galleries** (administering gallery personnel access)
5. **Collections** (studio can view and edit if needed)
6. **Hold Records** (monitoring, cleaning expired holds)
7. **Guest View Tokens** (optional: stored in FM for auditing)

### 11.2 Artwork Management (FileMaker)

All artwork data is maintained exclusively in FileMaker in works\_catalog.

#### Admin Workflow

- Create / update artwork records
- Fill out:
  - work\_name
  - creation\_year
  - category / series

- materials
- dimensions (height, width, length)
- caption (formatted full text for UI)
- inventory numbers
- edition number (when relevant)
- edition price
- availability flags
- Upload artwork images to WordPress manually (see 11.5)

## **Important**

Every artwork MUST have:

- A correct **caption** (used everywhere in UI and PDFs)
- A correct **image\_location** (only the *first* filename)

## **11.3 Edition Management**

Managed inside edition\_catalog.

### **Admin Can:**

- Add new editions
- Update edition availability
- Update prices
- Update loan status:
  - If work is loaned to a gallery
  - Loan start / end
  - Loan notes

### **Loan Data Impact on UI:**

- Search filter “Loaned to my gallery”

- Display “On Loan” tag in Detail View
- Exclusion/inclusion logic for galleries

---

## 11.4 Gallery User Management

All gallery personnel accounts exist only in FileMaker.

### Fields managed by admin:

- Username
- Password (hashing recommended)
- Gallery Name
- Gallery ID
- Contact info (optional)

### Admin can:

- Create a new gallery user
- Change password
- Disable user
- Delete user

### Admin cannot (by design):

- Change anything in WordPress
- See Quick Collections (client-side only)
- See private browser states

---

## 11.5 Image Upload Workflow (Very Important)

Images are managed manually in WordPress filesystem.

### Each artwork requires:

1. **Full-resolution images** stored in:  
/wp-content/uploads/artworks/
  
2. **Thumbnails** stored in:  
/wp-content/uploads/artworks/small/
  
3. Filenames MUST match exactly between the two folders.

#### **Filename Rules:**

- Format: YEAR\_Title variant.jpg
- Only .jpg or .jpeg
- No spaces inside year prefix
- Avoid special characters

#### **Admin Workflow:**

1. Export images from photography/studio system
2. Resize manually for small version (recommended width: 400px)
3. Upload to the correct folders
4. Set the primary filename in FileMaker (image\_location)

---

#### **11.6 Collections (Studio-Level Monitoring)**

Collections created by galleries are stored in:

- Gallery\_Collections
- Gallery\_Collection\_Items

#### **Admin Can:**

- View all collections
- Audit what galleries are selecting
- Remove problematic items

- Manually edit collection names
- Delete collections if needed

#### **Admin Should Not:**

- Create collections for galleries
- Change gallery content arbitrarily

### **11.7 Holds Management**

All holds created by galleries are stored in a dedicated table or as fields inside edition\_catalog.

#### **Admin Can:**

- View all active holds
- Force-release a hold
- Manually remove incorrect records
- Audit galleries who hold works too often

#### **Automatic Expiration**

- FM script or WP cron clears expired holds daily
- Admins should periodically confirm expiration success

### **11.8 Guest View Token Management**

Depending on implementation (FM or WP):

#### **If stored in FileMaker (recommended):**

- Admin can view all generated tokens
- See which gallery shared what
- View expiration dates
- Clean expired tokens if needed

**If stored in WordPress transient:**

- Admin only sees:
  - Basic guest view logs (in FM)
  - No direct token access

**11.9 Updating System Rules**

Admin can update:

- Categories
- Series names
- Default prices
- Material taxonomies
- Dimension conventions
- Note fields

These changes immediately affect WordPress results.

**11.10 Maintenance Recommended Practices****Monthly:**

- Clean expired guest tokens
- Check hold expiration behavior
- Ensure thumbnails and full images match
- Check for missing or mismatched filenames in FM

**Quarterly:**

- Review gallery accounts
- Clean old/deleted collections
- Audit artwork availability flags

**During New Artwork Uploads:**

- Verify caption formatting
- Verify image filenames match
- Upload both sizes
- Check Detail View display

---

**11.11 Admin Constraints****Admin cannot:**

- Trigger WordPress–FileMaker schema changes automatically
- See private gallery session data
- Modify Quick Collections
- Generate WordPress PDFs manually (system-driven)

**Admin should:**

- Maintain data integrity
- Ensure artworks have complete metadata
- Keep filenames consistent
- Ensure no missing small/full variants

---

**12. Glossary**

This glossary defines all terminology used throughout the specification. Each term is written exactly as it is used in the system.

---

**12.1 Artwork & Metadata Terms****Artwork**

A record in works\_catalog representing a single work by the artist.  
Includes caption, category, series, year, materials, dimensions, edition information, and image filename.

## Caption

A single preformatted text field in FileMaker containing:

- Work name
- Year
- Materials
- Dimensions

Caption is **the main descriptive text** used everywhere in the interface, PDFs, and Guest View.

## Category

A high-level classification of the artwork (e.g., Sculpture, Video, Installation).

## Series

A grouping for thematically related artworks. Used in filtering and display.

## Edition Number

The specific edition number of the artwork (e.g., 2/6).

Displayed in:

- Artwork Detail
- Collections
- Guest View
- PDFs

## Edition Price / Current Edition Price

The price of the edition, pulled from edition\_catalog or works\_catalog.

Shown in:

- Artwork Detail
- Collections

- Guest View
- PDFs

---

## 12.2 Image System Terms

### Full-Resolution Images

High-quality artwork images stored in:

/wp-content/uploads/artworks/

Used in:

- Artwork Detail (after preview)
- PDF exports
- ZIP downloads
- Fullscreen viewer

### Thumbnail Images (“small” folder)

Low-resolution versions stored in:

/wp-content/uploads/artworks/small/

Used in:

- Search Grid
- Collections
- Quick Collection
- Guest View initial load

### Base Name

Filename without extension, used to locate all images of a work.

Example:

2015\_Salt Bride

## **Image Discovery**

Process where WP plugin finds all files with matching base name in both folders (full + small).

## **12.3 Collection Terms**

### **Quick Collection**

A temporary session-based list of artworks selected by the gallery.

Stored in localStorage only.

Used to create or update Saved Collections.

### **Saved Collection**

A persistent gallery-curated set of artworks stored in FileMaker:

- Gallery\_Collections
- Gallery\_Collection\_Items
  - Includes SortOrder for layout consistency.

### **SortOrder**

Numeric value controlling the order of artworks inside a Saved Collection.

Updated after drag-and-drop rearrangement.

## **12.4 Hold System Terms**

### **Hold**

A temporary reservation of an artwork for 30 days by a gallery.

Stored in a FileMaker table.

### **Hold Start / Hold End**

Timestamps defining when a hold begins and when it expires.

### **Active Hold**

A hold record that is still valid (not expired and not released).

### **Hold Conflict**

Occurs when another gallery places a hold on an artwork just before the current user attempts to.

---

## 12.5 User & Access Terms

### Gallery Personnel

The authenticated user representing a gallery.

Each gallery has **one shared login**.

### Guest View

A public, read-only share page accessed through a time-limited tokenized link.

Shows:

- Image
  - Caption
  - Edition Number
  - Edition Price
- No downloads or interactivity.

### Guest View Token

Secure 32-byte random string used to provide temporary access to a shared collection.

---

## 12.6 FileMaker / API Terms

### FileMaker Data API

REST-based API used by WordPress to access and modify FileMaker data.

### FileMaker Token

Session token required for API access.

Managed internally by the WP plugin.

### **gallery\_id**

The identifier linking a logged-in gallery to:

- Collections

- Holds
- Permissions
- Saved selections

**work\_id**

Unique identifier of an artwork in FileMaker.

**collection\_id**

Identifier for a Saved Collection.

**item\_id**

Identifier for an item inside a collection linking the collection and work.

---

**12.7 Export Terms****PDF Export**

Multi-page document generated from:

- Caption
- Images
- Edition info
- Metadata

Different formats for:

- Single Artwork
- Whole Collection

**ZIP Export**

A compressed archive containing:

- One folder per artwork
- All full-resolution images

Used for gallery presentations and internal work.

---

## 12.8 Error Handling Terms

### Safe Fallback

A UI behavior ensuring that the app never “breaks” visually; missing data gets placeholders.

### Optimistic UI

The interface updates instantly before server confirmation.

### Silent Removal

Automatic removal of missing/unavailable artworks from Quick Collection or Collections without blocking the user.

---

## 12.9 Performance Terms

### Lazy Loading

Images load only when visible on screen.

### Thumbnail-First Strategy

UI loads small images first, replacing with full-resolution images when needed.

### Pagination / Infinite Scroll

Search results load in batches (25–50 items).

### Base-Name Cache

WP caching mechanism reducing repeated filesystem scans.