# KGSweb Google Integration Plugin – Handoff Documentation

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## Table of Contents

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## Root Integration File ( `kgsweb-google-integration.php` )

**Purpose**
Central bootstrap for all KGSWeb Google Integration plugin features. Defines constants, loads dependencies, and initializes feature classes.

**Key Constants**

```
KGSWEB_PLUGIN_VERSION
KGSWEB_PLUGIN_FILE
KGSWEB_PLUGIN_DIR
KGSWEB_PLUGIN_URL
KGSWEB_SETTINGS_OPTION
KGSWEB_UPLOAD_PASS_HASH
```

**Initialization Flow**

1. File guard: `if (!defined('ABSPATH')) exit;`
2. Define constants (paths, version, security hash)
3. Load all `/includes/` modules
4. Load Composer autoloader: `vendor/autoload.php`
5. Hook `plugins_loaded` → initialize classes:

```
KGSweb_Google_Integration::init();
KGSweb_Google_Admin::init();
KGSweb_Google_REST_API::init();
KGSweb_Google_Shortcodes::init();
KGSweb_Google_Secure_Upload::init();
```

```
KGSweb_Google_Ticker::init();
KGSweb_Google_Upcoming_Events::init();
```

**Responsibilities**

- Dependency loader and system entry point
- Delegates logic to modular class files
- Establishes uniform namespace `KGSweb_Google_*`
- Ensures subsystems register after WordPress is ready

**Developer Notes**

- Avoid adding feature logic here
- New subsystems → create `class-kgsweb-google-<feature>.php` + `::init()`
- Maintain consistent naming and directory structure

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## Google Integration Core ( `includes/class-kgsweb-google-integration.php` )

**Purpose** Creates and manages authenticated Google API client instances shared by all plugin modules. Handles enqueueing of shared front-end assets.

**Class:** `KGSweb_Google_Integration`

**Key Responsibilities**

- Singleton Google API client instance
- Access to Drive, Docs, Calendar, Sheets, Slides
- Register/enqueue shared JS/CSS
- Maintain plugin paths and configuration
- Upload lockout for Secure Upload

**Properties**

```
private static ?self $instance
private ?Client $client
private ?KGSweb_Google_Drive_Docs $drive
private ?Docs $docsService
private ?Calendar $calendar
private ?Sheets $sheets
private ?Slides $slides
private string $plugin_url
private string $plugin_path
private int $lockout_time = 86400
private int $max_attempts = 50
```

**Hooks**

```
add_action('init', [$this, 'register_assets']);
add_action('wp_enqueue_scripts', [$this, 'enqueue_frontend']);
```

**Google API Services**

- `get_client()`
- `get_drive()`

- `get_docs_service()`
- `get_calendar()`
- `get_sheets()`
- `get_slides()`

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## Drive Docs (class-kgsweb-google-drive-docs.php)

**Purpose:** Interface between WordPress and Google Drive for:

- Retrieving folder contents
- Parsing API responses
- Caching results
- Generating download links
- Supporting front-end shortcodes

**Shortcode Syntax**

```
[kgsweb_drive_folder id="FOLDER_ID" view="list|grid" sort="name_asc|modified_desc"
filter="pdf,docx,folder" max_depth="1"]
```

**Example:**

```
[kgsweb_drive_folder id="1AbCDefGhIJklmnopQRsT" view="grid" filter="pdf,docx"
sort="modified_desc"]
```

---

## Ticker (includes/class-kgsweb-google-ticker.php)

**Shortcode Syntax**

```
[kgsweb_google_ticker folder="FOLDER_ID" max_items="5" speed="normal"]
```

---

## Display (includes/class-kgsweb-google-display.php)

**Shortcode Syntax**

```
[kgsweb_display type="breakfast|lunch|calendar|feature_image" view="list|grid"
max_items="N" filter="pdf,docx"]
```

---

## Upcoming Events (includes/class-kgsweb-google-upcoming-events.php)

**Shortcode Syntax**

```
[kgsweb_upcoming_events folder="FOLDER_ID" limit="5" view="list"]
```

---

## Slides (includes/class-kgsweb-google-slides.php)

**Shortcode Syntax**

```
[kgsweb_slides id="PRESENTATION_ID" width="800" height="600"]
```

## Sheets (includes/class-kgsweb-google-sheets.php)

**Shortcode Syntax**

```
[kgsweb_sheets id="SHEET_ID" range="A1:E10"]
```

## Secure Upload (includes/class-kgsweb-google-secure-upload.php)

- Validates file type, size, MIME
- Enforces lockout ( `lockout_time` , `max_attempts` )
- Uploads to Drive folder

## REST API (includes/class-kgsweb-google-rest-api.php)

- Provides JSON endpoints for menus, events, Drive folder data
- Registers routes via WordPress REST API

## Helpers (includes/class-kgsweb-google-helpers.php)

- MIME type mapping
- PDF → PNG conversion
- Date formatting
- Cache key generation
- Shared validation utilities

## KGSweb Google Plugin – Quick Reference

| Category | Feature / Type | Shortcode Example | Admin Folder / Setting | Notes |
|----------|----------------|-------------------|------------------------|-------|
| Display | Breakfast Menus | `[kgsweb_display type="breakfast" view="list"]` | Breakfast Menu Folder ID | PDF/image menus |
| | Lunch Menus | `[kgsweb_display type="lunch" view="grid"]` | Lunch Menu Folder ID | Grid display |
| | Calendars | `[kgsweb_display type="calendar" filter="pdf"]` | Calendar Folder ID | PDF calendars |
| | Feature Images | `[kgsweb_display type="feature_image" view="grid"]` | Feature Image Folder ID | Visual featured images |
| Ticker | News / Announcements | `[kgsweb_google_ticker folder="abc123"]` | Ticker Folder ID | Rotating content |
| | | | | |

| | | | | |
|---|---|---|---|---|
| Events | Upcoming Events | `[kgsweb_upcoming_events folder="xyz456"]` | Events Folder ID | List/grid upcoming events |
| Sites | Google Sites Embed | `[kgsweb_google_site url="https://sites.google.com/..."]` | Allowed Sites Setting | Iframe embed |
| Drive | Drive Folder Display | `[kgsweb_drive_folder id="folder_id_here"]` | N/A | Cached listing |
| Slides | Google Slides Embed | `[kgsweb_slides id="presentation_id"]` | N/A | Embeds slides |
| Sheets | Google Sheets Display | `[kgsweb_sheets id="sheet_id" range="A1:E10"]` | N/A | Table display |
| Uploads | Secure Upload | Handled internally | Upload Target Folder | Secure Drive upload |
| API | REST Endpoints | N/A | N/A | JSON endpoints |
| Helpers | Utilities / PDF Tools | N/A | N/A | Shared utilities |

## Admin Summary

| Setting Name | Purpose | Used By |
|---|---|---|
| kgsweb_drive_breakfast_folder | Breakfast menus folder | Display |
| kgsweb_drive_lunch_folder | Lunch menus folder | Display |
| kgsweb_drive_calendar_folder | Calendar folder | Display |
| kgsweb_drive_feature_folder | Feature images | Display |
| kgsweb_drive_ticker_folder | Ticker items | Ticker |
| kgsweb_drive_events_folder | Upcoming events | Upcoming Events |
| kgsweb_allowed_sites | Allowed Sites URLs | Google Sites Embed |
| kgsweb_cache_duration | Cache lifetime (seconds) | Drive Docs, Display |

## Core Classes at a Glance

| Class | Responsibility |
|---|---|
| KGSweb_Google_Integration | Initializes modules, sets up Google Client |
| KGSweb_Google_Admin | Admin menus, folder mappings |
| KGSweb_Google_Shortcodes | Registers all shortcodes, dispatches handlers |
| | |

| | |
|---|---|
| `KGSweb_Google_Drive_Docs` | Fetches, parses, caches Drive folder contents |
| `KGSweb_Google_Secure_Upload` | Secure Drive uploads |
| `KGSweb_Google_Ticker` | Rotating content display |
| `KGSweb_Google_Display` | Menus, calendars, feature images |
| `KGSweb_Google_Upcoming_Events` | Upcoming events display |
| `KGSweb_Google_Slides` | Embed Google Slides |
| `KGSweb_Google_Sheets` | Display Google Sheets |
| `KGSweb_Google_REST_API` | Provides JSON endpoints |
| `KGSweb_Google_Helpers` | Shared utilities (PDFs, MIME, dates) |

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## Developer Flow Overview

```
[shortcode invoked]
      ↓
KGSweb_Google_Shortcodes → target class
      ↓
Drive data fetched via KGSweb_Google_Drive_Docs
      ↓
Filtered / sorted / formatted
      ↓
Rendered (list, grid, ticker, embed)
      ↓
Displayed on front-end
```

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**End of README.md**