



WordPress Plugin Project Structure

PHP-based WordPress plugin with admin settings, hooks, shortcodes, and optional Gutenberg blocks.

#wordpress

#plugin

#php

#cms

#gutenberg

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Project Directory



my-plugin/

my-plugin.php Main plugin file

> **includes/** Core PHP classes

class-plugin.php Main plugin cla...

class-loader.php Hook loader

class-activator.php Activation logic

class-deactivator.php Deactivation cl...

> **admin/** Admin-facing co...

class-admin.php Admin hooks and...

> **partials/** Admin view temp...

settings-page.php

> **css/**

admin.css

> **js/**

admin.js

> **public/** Public-facing c...

class-public.php Frontend hooks

> **partials/**

shortcode-output.php

> **css/**

public.css

> **js/**

public.js

> **blocks/** Gutenberg block...

> **my-block/**

block.json Block metadata

index.js Block registrat...

edit.js Editor component

save.js Frontend render

style.css

> **languages/** Translation fil...

my-plugin.pot

uninstall.php Cleanup on unin...

readme.txt WordPress.org r...

composer.json PHP dependencies

package.json For block assets

.gitignore



Why This Structure?

This structure separates admin and public code, uses a class-based architecture, and follows WordPress coding standards. The **includes/** folder contains shared logic, while **admin/** and **public/** handle their respective contexts.



Key Directories

my-plugin.php - Plugin header, bootstrap, and activation hooks

includes/ - Core classes and shared functionality

admin/ - Admin menus, settings pages, and assets

blocks/ - Gutenberg blocks with React components



Main Plugin File

```
run();
```



Getting Started

- Create plugin folder in **wp-content/plugins/**
- Add main PHP file with plugin header comment
- Create **includes/class-plugin.php** with hook registration
- Activate plugin in WordPress admin
- Use **wp scaffold plugin** for quick scaffolding



WordPress Hooks

Actions - **add_action('init', ...)** to run code at specific points

Filters - **add_filter('the_content', ...)** to modify data

Shortcodes - **add_shortcode('my_tag', ...)** for content embeds

AJAX - **wp_ajax_*** hooks for async requests



Best Practices

- Prefix all functions, classes, and hooks with unique slug
- Use **wp_enqueue_script/style** for assets, never inline
- Escape output with **esc_html()**, **esc_attr()**, etc.
- Use nonces for form security
- Make strings translatable with **__()** and **_e()**



Common APIs

Options API - **get_option()**, **update_option()** for settings

Settings API - Built-in settings pages with validation

REST API - **register_rest_route()** for custom endpoints

Custom Post Types - **register_post_type()** for custom content



When To Use This

- Adding features to WordPress sites
- Custom admin functionality
- Integrating third-party services
- Custom post types and taxonomies
- Gutenberg editor extensions



Trade-offs

PHP required - Must know PHP for core functionality

Global namespace - Risk of conflicts without proper prefixing

Review process - WordPress.org has strict review guidelines