

# WORDPRESS PLUGIN DEVELOPMENT



BUDDY  
REFRESHING YOUR BUSINESS

# What Is a Plugin?

---

WordPress plugins are apps that allow you to add new features and functionality to your WordPress website. Exactly the same way as apps do for your smartphone.

WordPress plugins allows you to create almost any kind of website with WordPress.

Allows developers to change the WordPress core without modifying any of its code.

Contains a combination of PHP, HTML, CSS, Bootstrap, and Javascript.



# WHY DO WE USE/CREATE A PLUGIN?

---

- ❑ Extend existing functionality
- ❑ Save time
- ❑ Portability
- ❑ Make money



# LIST OF POPULAR PLUGINS

---

- ❑ Contact Form 7 / Gravity form
- ❑ WooCommerce
- ❑ All in One SEO Pack
- ❑ WP Super Cache
- ❑ Google Analytics for WordPress by MonsterInsights
- ❑ Google XML Sitemaps
- ❑ Advanced Custom Fields
- ❑ Really Simple CAPTCHA
- ❑ MailChimp for WordPress

# HOW TO INSTALL PLUGIN

WordPress 4.9.1 is available! [Please update now.](#)

Plugins [Add New](#)

All (1) | [Inactive \(1\)](#)

Bulk Actions ▾ [Apply](#)

<input type="checkbox"/>	Plugin	Description
<input type="checkbox"/>	Hello Dolly <a href="#">Activate</a>   <a href="#">Edit</a>   <a href="#">Delete</a>	This is not just a plugin, it symbolizes the hope and enthusiasm of an entire generation growing up with the music of the 1960s. When activated you will randomly see a lyric from Hello, Dolly in the upper right of your admin area. Fun. Version 1.6   By Matt Mullenweg   <a href="#">View details</a>
<input type="checkbox"/>	Plugin	Description

Bulk Actions ▾ [Apply](#)

*Thank you for creating with [WordPress](#).*

# CREATE CUSTOM PLUGIN

---





# CREATE PLUGIN FILE

---

First, a folder that contains all the plugin files. The folder should be named the same as your plugin. For example, I named my plugin “dental-plan” so the folder name is “dental-plan”. This folder will contain all the files for your plugin.

Second, a PHP file that has the same name as your folder. In my case this was “dental-plan.php”. This file is all that is required to make the plugin function. In order for the plugin to function, you do not even have to put this file in a folder, but since most plugins are more than one file its best to just make the folder for good practice.

Third, you should have a “readme.txt” file. Please note that the readme.txt file is NOT required, but if you want to get your plugin on the official WordPress plugin repository then it is required. This file will contain all the useful information that the users will need to know about your plugin.

# FOLDER STRUCTURE

The screenshot shows a Windows File Explorer window with the address bar path: Computer > Project > xampp > htdocs > wordpress > supercharger > wp-content > plugins > dental-plan. The 'dental-plan' folder is highlighted with a red box. The left sidebar shows a tree view of folders including supercharger, wp-admin, wp-content, plugin backup, plugins, dental-plan (selected), themes, upgrade, uploads, wp-includes, temecula, westlakevinn, wp\_development, carefulremovals.zip, and roatanislandvacationrentals. The main pane displays a table of files and folders within 'dental-plan'.

Name	Date modified	Type	Size
css	02-12-2017 10:58	File folder	
image	02-12-2017 10:58	File folder	
js	02-12-2017 10:58	File folder	
Stripe gateway integration	02-12-2017 10:58	File folder	
dental-plan.php	01-12-2017 23:31	PHP File	18 KB
README.txt	29-10-2017 15:29	Text Document	4 KB



# FILE HEADER

---

On the top your PHP file put some information about your plugin. The first lines of your plug-in **must** be comment information for the parsing engine. This is extremely important as WordPress will be unable to process your file without.

Below is an example code snippet.

```
<?php
/*
Plugin Name: Dental Plan Plugin
Plugin URI: http://www.f5buddyproject/plugins
Description: Subscribe Dental plan
Version: 1.2
Author: F5buddy
Author URI: http://f5buddy.com
License: F-5
Copyright: F5buddy
*/
```



Dashboard

Posts

Media

Pages

Comments

Slider

Appearance

Plugins

Installed Plugins

Add New

Editor

Users

Tools

Settings

Collapse menu

[WordPress 4.9.1](#) is available! [Please update now.](#)

## Plugins [Add New](#)

All (2) | [Inactive \(2\)](#) | [Recently Active \(1\)](#)

Bulk Actions ▾

Apply



Plugin

Description



Dental Plan Plugin

Subscribe Dental plan

[Activate](#) | [Edit](#) | [Delete](#)

Version 1.2 | By [F5buddy](#)



Hello Dolly

This is not just a plugin, it symbolizes the hope and enthusiasm  
When activated you will randomly see a lyric from Hello, Do

[Activate](#) | [Edit](#) | [Delete](#)

Version 1.6 | By [Matt Mullenweg](#) | [View details](#)



Plugin

Description

Bulk Actions ▾

Apply

# HOOKS

---

- 1. There are two types of hooks: action and filter hooks.**
  - A. Action hooks tell WordPress to perform an action.
  - B. Filter hooks tell WordPress to change some part of the content.
- 2. Hooks are a necessary part of any plugin as they instruct WordPress to act on a certain feature or piece of content.**
- 3. Themes can also include hooks in their functions.php file.**



# MOST USED HOOKS

---

## Action Hooks:

1. register\_activation\_hook
2. register\_deactivation\_hook
3. register\_uninstall\_hook
4. admin\_menu
5. wp\_enqueue\_scripts
6. init
7. admin\_init

## Filter Hooks:

1. the\_content
2. admin\_footer\_text
3. body\_class
4. login\_headertitle
5. wp\_footer
6. the\_modified\_time

# ACTIVATE/ DEACTIVATE/DELETE PLUGIN

WordPress dashboard header: supercharger, 1, 0, + New, Howdy, f5buddy

Screen Options | Help

WordPress 4.9.1 is available! [Please update now.](#)

## Plugins [Add New](#)

All (2) | [Inactive \(2\)](#) | [Recently Active \(1\)](#)

Bulk Actions | Apply

Search installed plugins... 2 items

<input type="checkbox"/>	Plugin	Description
<input type="checkbox"/>	Dental Plan Plugin	Subscribe Dental plan Version 1.2   By F5buddy <a href="#">Activate</a>   <a href="#">Edit</a>   <a href="#">Delete</a>
<input type="checkbox"/>	Hello Dolly	This is not just a plugin, it symbolizes the hope and enthusiasm of an entire generation summed up in two words sung most famously by Louis Armstrong: Hello, Dolly. When activated you will randomly see a lyric from Hello, Dolly in the upper right of your admin screen on every page. Version 1.6   By Matt Mullenweg   <a href="#">View details</a> <a href="#">Activate</a>   <a href="#">Edit</a>   <a href="#">Delete</a>
<input type="checkbox"/>	Plugin	Description

Bulk Actions | Apply 2 items

[Thank you for creating with WordPress.](#) [Get Version 4.9.1](#)

# USE ACTIVATION HOOKS

---

```
register_activation_hook( __FILE__, 'prefix_create_table' );

function prefix_create_table() {
    global $wpdb;
    $charset_collate = $wpdb->get_charset_collate();
    $sql = "CREATE TABLE `plan` (
        `plan_id` int(11) AUTO_INCREMENT PRIMARY KEY,
        `plan_name` varchar(50) NOT NULL,
        `plan_des` longtext NOT NULL,
        `today_date` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
        ON UPDATE CURRENT_TIMESTAMP
    ) ";

    if ( ! function_exists('dbDelta') ) {
        require_once( ABSPATH . 'wp-admin/includes/upgrade.php' );
    }
    dbDelta( $sql );
}
```



Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1	plan_id		int(11)	No	None	AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2	plan_name		varchar(50)	No	None		Change  Drop  More
<input type="checkbox"/>	3	plan_des		longtext	No	None		Change  Drop  More
<input type="checkbox"/>	4	Today_date		timestamp	No	CURRENT_TIMESTAMP	ON UPDATE CURRENT_TIMESTAMP	Change  Drop  More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns  
 Remove from central columns

Print view Propose table structure Track table Move columns Improve table structure

Add  column(s) after

+ Indexes

# USE UNINSTALL HOOKS

---

```
register_uninstall_hook( __FILE__, 'plugin_uninstall' );  
function plugin_uninstall() {  
    global $wpdb;  
    $sql = "DROP TABLE IF EXISTS `plan`";  
    $wpdb->query($sql);  
}
```

# ADD STYLE/SCRIPT

---

```
wp_register_style('bootstrap', plugins_url('css/bootstrap.css', __FILE__));  
wp_enqueue_style('bootstrap');
```

## 1. Enqueue Styles

2. wp\_register\_style()
3. wp\_deregister\_style()
4. wp\_enqueue\_style()
5. wp\_dequeue\_style()
6. wp\_add\_inline\_style()
7. wp\_style\_is()

## 1. Enqueue Scripts

2. wp\_register\_script()
3. wp\_deregister\_script()
4. wp\_enqueue\_script()
5. wp\_dequeue\_script()
6. wp\_add\_inline\_script()
7. wp\_enqueue\_media()



# ADMIN MENU

---

```
add_action('admin_menu', 'register_admin_custom_menu');
```

```
function register_admin_custom_menu() {
```

```
    add_menu_page('Dental Service','Dental Plan', 'manage_options', 'view-plan',  
'view_plan', 'dashicons-welcome-widgets-menus' );
```

```
    add_submenu_page('view-plan', 'Plan setting', 'Straipe setting',  
'manage_options', 'plan-setting', 'setting_plan');
```

```
}
```

## Parameter values

**\$page\_title , \$menu\_title , \$capability, \$menu\_slug , \$function , \$icon**

The image shows a browser window with several tabs. The active tab is 'Dental Service'. The address bar shows the URL 'localhost/wordpress/supercharger/wp-admin/admin.php?page=view-plan'. The WordPress admin dashboard is visible, with a sidebar menu on the left. The 'Dental Plan' menu item is highlighted in blue, and its submenu 'Straipe setting' is also highlighted. A red box highlights the 'Dental Service' tab and the 'view-plan' page URL. A red arrow points from the 'Dental Service' tab to the 'View Plan' page title. Another red arrow points from the 'view-plan' URL to the 'Sulg' button. A third red arrow points from the 'Dental Plan' menu item to the 'Page title' label. A fourth red arrow points from the 'Straipe setting' submenu item to the 'Submenu' label. The 'View Plan' page displays a notification for WordPress 4.9.1, a 'Sulg' button, and a table with columns 'Plan Name' and 'Subscription Type'.

**Dental Service**

localhost/wordpress/supercharger/wp-admin/admin.php?page=view-plan

WordPress 4.9.1 is available! Please update now.

**Sulg**

**View Plan**

**Page title**

Plan Name	Subscription Type
-----------	-------------------

**Menu Icon**

**Dental Plan**

**Submenu**

Straipe setting

Collapse menu

# CREATE SHORTCODE

---

WordPress offers a predefined shortcode function to create shortcode in WordPress plugin. For using shortcode function, we have to define a handler function that parse the shortcode and return some output.

Then, we need to register a shortcode using `add_shortcode()` function.

```
add_shortcode($shortcode_name, $handler_function);
```

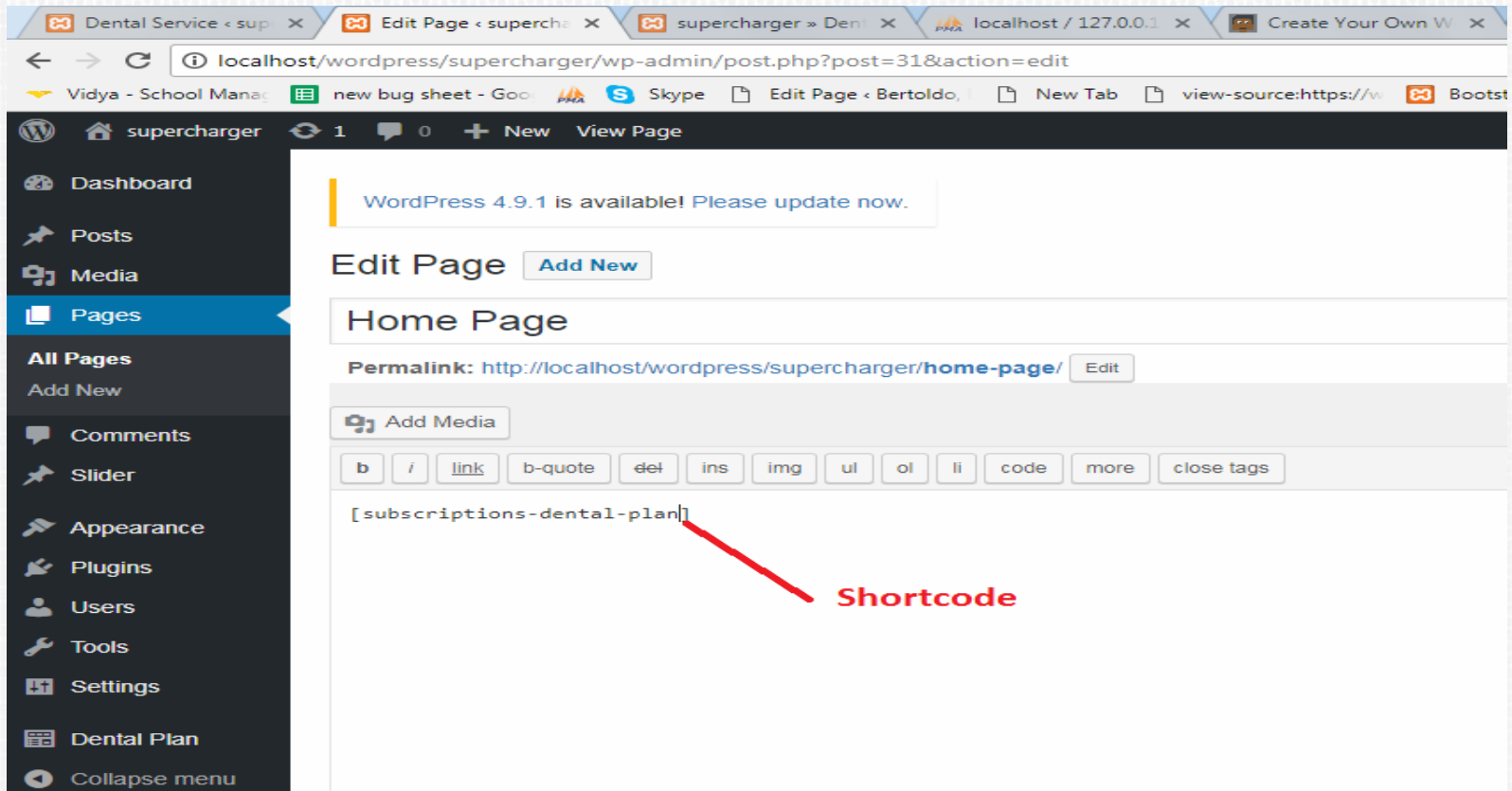
`$shortcode_name` – (required, string) It is a string that to be searched in the post.

`$handler_function` – (required, callable) It is a hook to run when shortcode is found.

```
function custom_select_plan() {  
    include( plugin_dir_path( __FILE__ ) . 'plan-vive-page.php');  
}  
add_shortcode( 'subscriptions-dental-plan', 'custom_select_plan' );
```



# USE SHORTCODE

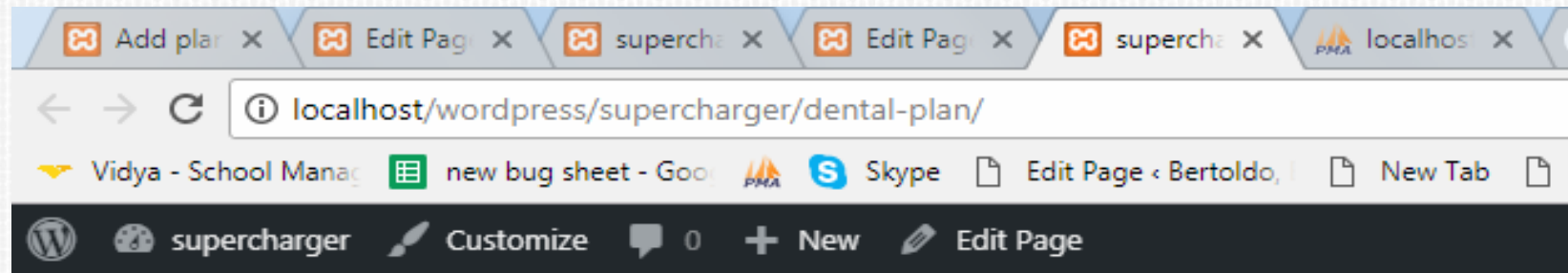


The screenshot shows the WordPress admin dashboard for a site named 'supercharger'. The 'Pages' menu is active, and the 'Home Page' is being edited. The content area contains the shortcode `[subscriptions-dental-plan]`, which is highlighted by a red arrow and labeled 'Shortcode'. The interface includes a sidebar with navigation options like Dashboard, Posts, Media, Pages, Comments, Slider, Appearance, Plugins, Users, Tools, Settings, and Dental Plan. The main content area also shows a notification for WordPress 4.9.1 and a toolbar with various formatting options.

## Use Shortcode in a Template

```
<?php echo do_shortcode('[subscriptions-dental-plan]'); ?>
```

# FRONT END VIEW



## Dental Service Plan

### GOLD PLAN

Plan Amount	1000 USD
Plan type	Years
Plan Details	Testing

Subscribe

# CONTACT US AT:

---



[www.f5buddy.com](http://www.f5buddy.com)



[contact@f5buddy.com](mailto:contact@f5buddy.com)



---

**THANK YOU**