Days Reference: develocs. masento.com/guides/12.11 3/03/201) ext-best-practices/extension-coding/common-programm Programming Best Practices ing-bp. holme Follow a set of coding standards: Following a set of cooling standards will help make your code consistent and maintainable. Magento's Cooling Standards are based on the following: 1. Zend coding standards https://framework.zend.com/manual/1.12/en/ coding-standard. html 2. PSR-2 http://www.php-fig.org/psr/psr-2/ 3. PSR-4 http://www.php-fig.org/psr/psr-4/ > a. PHP File Formatting 6. Haming Conventions c. Coding Style

Singleton en which

Design Patterns in PMP

singleton pattern: There are several scenarios in which you might want to make your const ructor private. The common reason is that in some cases, you don't want oritaide code to call your constructor directly, but force it to use another method to get an instance of your class:

The purpose of using a private constructor ene wes that there can be only one instance of a class and provides a global access point to that instance and this is common with The singleton Pattern.

we only ever want a single instance of our class to exist:

class Singleton

3

private static sinstance = null;

private function_construct()

public static function getmetance ()

if (self: : sinstance = = = null) {
self: : sinstance = new self();

return selt!: sinstance;

=97-

3rd Party API integration (use) in our application: Look: hotelogix/application/models/Currencylon verter Payment Gateway integration into our application! Look: hotelosex/application/models/ gateway 3rd Party Library use in our application To use third-party library in our application, we should use adolpter. Adapter: Adapters are the classes follow the adapter pattern (a software design pattern also known as 'wrapper') and wrap-around (- 24713-5--ाारो तरफ को दमना/ कपेटना/cover मला) classes from Third-party libraries. These classes allow you to use functionality from third-party libraries in your code by converting the third-party class interfaces into an interface that is expected by your native code: when to use Adapter: You should always use adapter classes instead of directly using classes from third-party libraries. This reduces the change impact on your code when the API changes in a third-party library. we recommend using adapter classes to get

access to the functionality provided by third-party classes.

How to write Adapter: A common approach in developing an adapter is to create an interface Reference: devdocs magento com/quides/v2.1/

named Adapter Interface to describe the function nality the third-party class provides. This class is typically found in a directory labeled 'Adapter'. classes implementing this adapter interface use the third-party class directly to provide indirect functionality.

This approach allows you to update or substitute different implementations provided by other third-party classes without the need to update code that uses your adapter.

Example of Adapters:

1. magento2/vendor/magento/tramework/Code/ Minifier

Here, maganto has created 2 adapters. First Minifier/Adapter/Css/CSS min. php to minify CSS of second Minifier/Adapter/Js/Jshrink. php to minify javascript.

2. magento2/vendor/magento/framework/Image
Here, magento has created 2 adapters. First
Adapter/Gd2. php & second Adapter/Image Magi
ck.php. Both adapter classes provides the cone
refe implementation using the third-party
libraries.

Golz: It is a library used to create & manipulate image files in a variety of different image formats, including GIF, PNG, JPEG, WBMP & XPM. It enabled by default in PHP7.

Image Magick: It is a native phy extension to treate & modity images using the Image Magick API.

Plugin/Module/ component

Plug-in applications are programs that can easily be installed and used as part of your application.

Example!

magento2/vendor/magento/module-customer magento2/vendor/magento/module-cms are different magento2 components and you can also create a new one for yourself.

In same way, Drupal has a lot of modules & Joomla has a lot of physins.

wrappers or wrapper classes

Wrap- 24- 64-11/0042-11/595 45-11 magento has several wrapper classes.

Example: For superglobal variables

Reference: devdocs magento com/quides/v2.1/extbest-practices/extension-coding/security-perfor mance-data-bp. html

mageinto recommends to not directly use any. PHP superglobals such as!

SGLOBALS, \$_SERVER, S-GET, \$-POST, S-FILES, S-COOKLE, 4-SESSIOH, S-REQUEST, S-ENV

Instead use the

Magento Framework HTTP/PhpEnvironment/Request i.e.

magento2/vendor/magento/framework/HTTP/PhpEn vironment/Request. php

wrapper class to safely access these values.