Magento 2 questions

1st Round:

1. Difference between Magento1 and Magento2

<https://aionhill.com/magento-1-vs-magento-2>

1. Types of plugins

<https://www.mageplaza.com/magento-2-module-development/magento-2-plugin-interceptor.html>

1. How to override core function

<https://inchoo.net/magento-2/overriding-classes-magento-2/>

1. What is the URL pattern in Magento
2. What is the Magento flow when you hit the url?

<https://www.dckap.com/blog/request-flow-in-magento-2/>

1. Cronjob setup in Magneto

<https://www.cloudways.com/blog/magento-2-cron-job/>

<https://www.cloudways.com/blog/setup-magento-cron-job/>

1. Types of deploy modes

<https://www.customerparadigm.com/difference-between-magento-2-modes/>

1. What is DI

<https://inchoo.net/magento-2/basics-dependency-injection-usage-magento-2/>

1. What is factory

<https://devdocs.magento.com/guides/v2.3/extension-dev-guide/factories.html>

1. What is object manager

<https://devdocs.magento.com/guides/v2.3/extension-dev-guide/object-manager.html>

1. How to get particular record (i.e. column\_name=”test”) from Collection?

<https://magento.stackexchange.com/questions/233419/magento-2-how-to-get-only-one-field-data-in-collection>

1. How to create custom module?

<https://www.mageplaza.com/magento-2-module-development/>

1. How to do database operations in module?

<https://www.mageplaza.com/magento-2-module-development/how-to-create-crud-model-magento-2.html>

1. CI Mangeto commands

<https://www.emiprotechnologies.com/technical_notes/magento-technical-notes-60/post/magento-2-useful-commands-list-391>

1. Difference between cache:clean and cache:flush

<https://magento.stackexchange.com/questions/138155/magento-2-what-is-difference-between-cache-clean-cache-flush>

1. How to show different prices for single customer?
2. What is UIComponent in admin?

<https://devdocs.magento.com/guides/v2.3/ui_comp_guide/bk-ui_comps.html>

1. Where to change (filename) the database name in Magento? – app/etc/env.php
2. Realtime example of Website, Store and StoreView

<https://magento.stackexchange.com/questions/7393/difference-between-website-stores-and-store-views>

2nd Round:

* + - 1. What you did in your project? And tell the concept you used to achieve it?
      2. How to show discount for bulk order by single/multiple customer?
      3. Difference between plugins and event observers?

<https://magento.stackexchange.com/questions/93932/magento-2-plugin-vs-observer>

* + - 1. Difference between cache:clean and cache:flush

<https://magento.stackexchange.com/questions/138155/magento-2-what-is-difference-between-cache-clean-cache-flush>

1. Difference between Magento1 and Magento2

* Architectural differences
* Speed and Performance
* Extensions
* Dashboard
* SEO and Security
* Pricing

1. Types of plugins

Before listener **Plugin**

After Listener Plugin

Around Listener Plugin

There is a design pattern called 'Interception' used in **Plugins**. Interception is inserting code dynamically without changing the original class behaviour.

1. How to override core function

We need to write DI.xml

1. What is the URL pattern in Magento
2. What is the Magento flow when you hit the url?
3. Cronjob setup in Magneto
4. Types of deploy modes
5. What is DI
6. What is factory
7. What is object manager
8. How to get particular record (i.e. column\_name=”test”) from Collection?
9. How to create custom module?
10. How to do database operations in module?
11. CI Mangeto commands
12. Difference between cache:clean and cache:flush
13. How to show different prices for single customer?
14. What is UIComponent in admin?
15. Where to change (filename) the database name in Magento?

* Magento 2 is released 10 years after Magento 1 to address many shortcomings of the E-commerce platform

Diff B/w M1 and M2

**Architectural differences**

1. The main issue with Magento 1 is the store performance which has been significantly improved in Magento 2.
2. Notable Architecture differences are:
   1. Magento 2 supports latest PHP versions. These versions include security improvements that affect store’s speed.
   2. Reduction in unnecessary browser’s operations on the client’s side due to bundled and minimized JavaScript
   3. Better browser caching for static content.

|  |  |
| --- | --- |
| **Magento 1** | **Magento 2** |
|  | Apache 2.x | Apache 2.2 / 2.4 |
|  |  | Nginx 1.7 or greater |
|  | PHP 5.2.x – 5.5.x | PHP 5.6.x / 7.0.2 / 7.0.6 |
|  | MySQL | MySQL / MySQL Percona 5.6.x or greater |
|  |  | Varnish 3.x / 4.x |
|  |  | Redis 2.x / 3.x or Memcached 1.4.x |
|  | Solr (Only for EE) | Solr 4.x |
|  | HTML | HTML5 |
|  | CSS | CSS3 |
|  | JQuery (In latest themes) | JQuery |
|  |  | RequireJS / Knockout.js |
|  | Zend Framework 1 | Zend Framework 1 / 2 |
|  |  | Symfony |
|  |  | Composer |
|  |  | PSR – 0 / 1 / 2 / 3 / 4 |

### 2. Speed & Performance

Magento 2 offers faster page load speed when compared to Magento 1. Thanks to full-page caching Magento has offered in both Community as well as Enterprise Edition.

### 3. Extensions

Conflicting Extensions: There are a lot of 3rd party extensions available in the market for Magento 1. However, the problem was the extension conflicts when two or more extensions try to rewrite the same functionality. This issue was resolved manually which costs time and efforts.

With Magento 2, plugins allowed code to overlap core code rather than override it.

Cheaper extensions: Installing and updating new extensions has become easier and cheaper. The process of installing extensions and modification of functionality is easier because of the new technology (HTML5, CSS3, Require.js) introduced in Magento 2

### 4. Dashboard

The admin panel in Magento 2 is user-friendly and intuitive. It allows finding information easily, navigates to all parts of the admin panel and manages your store more efficiently.

Magento 2 has a comprehensive dashboard that shows lifetime sales, last orders, average orders, top search terms, revenue tax, check bestsellers & customers, shipping, and quantity.  which helps to monitor the current state of your business.

### 5. SEO & Security

There are rich snippets on the catalog pages that improve search result in SERPs.

The strengthened hashing algorithms (SHA-256) for passwords. This has made passwords stronger to the dictionary types of attacks.

**6. Pricing**

Although the versions of the community editions of Magento are free to download. However, there’s a difference in the pricing of EE of Magento 1 and Magento 2.

* Magento EE license cost: starts at $18,000 yearly
* Magento 2 EE license cost: starts at $22,000 yearly