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## Magento 2 Tricky Interview Questions

Read Top 10 Magento Interview questions and answers for freshers and Experienced.

### **Q1. What is Magento?**

Magento is free open source e-commerce software written PHP language, that allows merchants to create online e-commerce stores.

### **Q2. Explain Registry pattern in Magento?**

Registry pattern is basically a pattern that allows any object or data to be available in a public global scope for any resource to use.

In Magento, you can register an object or data with `Mage::register` function,

```
Mage::register('identifier', $object_or_data);
```

After it is registered, you can call it with `Mage::registry` by passing identifier name:

```
Mage::registry('identifier');
```

You can also unregister an object at any time with `Mage::unregister`

```
Mage::unregister('identifier');
```

This is especially helpful transferring data between Models and Blocks without having to instantiate an entire class and load data.

### **Q3. What are the different versions of Magento?**

Four different versions of Magento are available, they are

- Magento Enterprise Edition
- Magento Community Edition
- Magento Professional Edition
- Magento .go Edition

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#### **Q4. What are the unique advantages of Magento MVC architecture when building a site?**

Magento follows PHP MVC (**Model-View-Controller**) application architecture.

**Model View Controller** design Pattern is used to keep the code modular and clean to assist in programming (keep things separate).

It divides a given software application into three interconnected parts, so as to separate internal representations of information from the ways that information is presented to or accepted from the user.

The central component, the **model**, consists of application data, business rules, logic and functions. A **view** can be any output representation of information, such as a chart or a diagram

Multiple views of the same information are possible, such as a bar chart for management and a tabular view for accountants.

The third part, the **controller**, accepts input and converts it to commands for the model or view.

#### **Q5. What is the difference between Omni Channel and multichannel retailing?**

##### **MultiChannel retailing**

MultiChannel means providing different platform like web, mobile, etc. to facilitate the sale of products/item

##### **Omni Channel Retailing**

Omni-Channel is a step above MultiChannel. Omni-Channel dictates that we should provide same brand experience irrespective of channel/medium customer choose

#### **Q6. List product types exist in Magento?**

In Magento 6 standard product types exists, they are

- Configurable
- Simple
- Grouped
- Bundle
- Virtual
- Downloadable

#### **Q7. In Magento which product types implement a parent-child relationship between**

## product entities?

**Configurable**, **bundle** and **grouped** products implement a parent-child relationship between product entities in Magento.

### Q8. Explain Magento's Compilation feature?

The **Compilation** feature of **Magento** will allow you to compile all files of a Magento installation in order to create a single include path to increase performance. The performance increase is between **25% - 50%** on page loads. In order to use this tool, the directory 'includes' and the file **includes/config.php** must both be writable.

### Q9. What are the differences between EAV and Flat model?

**EAV** is an entity attribute value database model, where data is fully in normalized form. Each column data value is stored in their respective data type table. Example, for a product, product ID is stored in catalog\_product\_entity\_int table, product name in catalog\_product\_entity\_varchar, product price in catalog\_product\_entity\_decimal, product created date in catalog\_product\_entity\_datetime and product description in catalog\_product\_entity\_text table. EAV is complex as it joins 5-6 tables even if you want to get just one product's details. Columns are called attributes in EAV.

**The flat** model uses just one table, so it's not normalized and uses more database space. It clears the EAV overhead, but not good for dynamic requirements where you may have to add more columns in database table in future. It's good when comes to performance, as it will only require one query to load whole product instead of joining 5-6 tables to get just one product's details. Columns are called fields in flat model.

### Q10. What is the difference between "pay" and "capture" operations in Magento?

**Pay:** This basically sets the invoice state is 'paid', this works for both when payment is online or offline.

**Capture:** This is when actual payment processing happens online, and the capture() method in our payment method is called. After capture, pay() is called.

### Q11. What scripting language and database management system does Magento use?

Magento uses PHP as a scripting language and MySQL for the database. Database: MySQL 5.6 (Oracle or Percona). PHP version: PHP 5.4, PHP 5.5 or above.

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