

### Module Structure

|   |                           |
|---|---------------------------|
| <code>app/code/VendorName/ModuleName</code> | Basic module structure    |
| <code>registration.php</code>               | Module registration file  |
| <code>etc/module.xml</code>                 | Module configuration file |
| <code>etc/frontend/routes.xml</code>        | Define frontend routes    |
| <code>etc/adminhtml/routes.xml</code>       | Define admin routes       |

### Controller Actions

|                              |   |
|------------------------------|---|
| <code>execute()</code>       | Main controller action method                     |
| <code>ResultInterface</code> | Various result types (Json, Redirect, Page, etc.) |
| <code>getRequest()</code>    | Retrieve request object                           |
| <code>getResponse()</code>   | Retrieve response object                          |

### Plugins

|   |                                   |
|---|-----------------------------------|
| <code>di.xml</code>   | Define plugin configurations      |
| <code>beforeMethod(), aroundMethod(), afterMethod():</code> | Plugin methods                    |
| <code>proceed()</code>                                      | Call the next method in the chain |

### Magento CLI Commands

|  |   |
|--|---|
| <code>bin/magento module:enable Vendor_Module</code> | Enable a module                           |
| <code>bin/magento setup:upgrade</code>               | Apply database schema and data changes    |
| <code>bin/magento cache:flush</code>                 | Flushes cache including 3rd party modules |
| <code>bin/magento cache:clean</code>                 | Cleans Magento cache                      |
| <code>bin/magento indexer:reindex</code>             | Reindex Data                              |

### Models

|                                       |                                 |
|---------------------------------------|---------------------------------|
| <code>load(), save(), delete()</code> | Basic CRUD operations           |
| <code>__construct()</code>            | Constructor method              |
| <code>getData(), setData()</code>     | Get and set model data          |
| <code>getResource()</code>            | Retrieve model's resource model |

### Layout XML

|   |                                       |
|---|---------------------------------------|
| <code>&lt;referenceContainer&gt;, &lt;referenceBlock&gt;</code> | Reference existing containers/blocks. |
| <code>&lt;block class="" template=""&gt;</code>                 | Define a block                        |
| <code>&lt;arguments&gt;</code>                                  | Pass arguments to blocks              |
| <code>&lt;update handle=""&gt;</code>                           | Apply layout updates.                 |

### Observers

|   |                        |
|---|------------------------|
| <code>events.xml</code>   | Define observer events |
| <code>execute(Magento\Framework\Event\Observer \$observer)</code> | Observer method.       |



### Observers (cont)

|                         |                         |
|-------------------------|-------------------------|
| <code>getEvent()</code> | <code>getEvent()</code> |
|-------------------------|-------------------------|

### Templates

|   |                            |
|---|----------------------------|
| <code>&lt;?php echo \$block-&gt;escapeHtml(__("Text")); ?&gt;</code>            | Output escaped text        |
| <code>&lt;?php echo \$block-&gt;getUrl('route/controller/action'); ?&gt;</code> | Generate URL               |
| <code>&lt;?php echo \$block-&gt;getChildHtml(); ?&gt;</code>                    | Output child block content |



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Page 3 of 3.

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