**1. Cart Functions**

The WC()->cart class allows interaction with the cart.

**Common Methods:**

**Get Cart Items:**

* $cart\_items = WC()->cart->get\_cart();
* foreach ( $cart\_items as $item ) {
* echo $item['data']->get\_name(); // Product name
* }
* **Get Cart Total:**
* echo WC()->cart->get\_total();
* **Add Product to Cart:**
* WC()->cart->add\_to\_cart( $product\_id, $quantity, $variation\_id, $variation, $cart\_item\_data );
* **Remove Product from Cart:**
* WC()->cart->remove\_cart\_item( $cart\_item\_key );
* **Empty Cart:**
* WC()->cart->empty\_cart();
* **Apply Coupon:**
* WC()->cart->apply\_coupon( 'COUPON\_CODE' );
* **Check if Cart Has Products:**
* if ( WC()->cart->is\_empty() ) {
* echo 'Cart is empty';
* }

**2. Checkout Functions**

The WC()->checkout class handles checkout functionality.

**Common Methods:**

* **Get Checkout Fields:**
* $fields = WC()->checkout->get\_checkout\_fields();
* **Create Order Programmatically:**
* $order\_id = WC()->checkout->create\_order( $data );
* **Process Checkout:**
* WC()->checkout->process\_checkout();
* **Check Registration Requirement:**
* if ( WC()->checkout->is\_registration\_required() ) {
* echo 'Registration required to checkout.';
* }

**3. Customer Functions**

The WC()->customer class manages customer data.

**Common Methods:**

* **Get Current Customer ID:**
* $customer\_id = WC()->customer->get\_id();
* **Get Customer Billing Info:**
* $billing\_address = WC()->customer->get\_billing\_address();
* **Get Customer Shipping Info:**
* $shipping\_address = WC()->customer->get\_shipping\_address();
* **Set Customer Session Data:**
* WC()->customer->set\_session\_data( 'key', 'value' );
* **Check If Customer Is Logged In:**
* if ( WC()->customer->is\_logged\_in() ) {
* echo 'Customer is logged in';
* }

**4. Product Functions**

The WC\_Product class is used to interact with products.

**Common Methods:**

* **Load Product Object:**0020
* $product = wc\_get\_product( $product\_id );
* **Get Product Name:**
* echo $product->get\_name();
* **Get Product Price:**
* echo $product->get\_price();
* **Check If Product Is In Stock:**
* if ( $product->is\_in\_stock() ) {
* echo 'In stock';
* }
* **Get Product Attributes:**
* $attributes = $product->get\_attributes();

**5. Order Functions**

The WC\_Order class deals with orders.

**Common Methods:**

* **Create a New Order:**
* $order = wc\_create\_order();
* **Get Order Details:**
* $order = wc\_get\_order( $order\_id );
* echo $order->get\_billing\_email();
* **Add Product to Order:**
* $order->add\_product( $product, $quantity );
* **Get Order Items:**
* $items = $order->get\_items();
* foreach ( $items as $item\_id => $item ) {
* echo $item->get\_name(); // Product name
* }

**6. Utility Functions**

These functions provide general WooCommerce utilities.

**Common Functions:**

* **Get Current Currency:**
* echo get\_woocommerce\_currency();
* **Get Shop Page URL:**
* echo get\_permalink( wc\_get\_page\_id( 'shop' ) );
* **Get Product Categories:**
* $categories = wp\_get\_post\_terms( $product\_id, 'product\_cat' );
* **Check If WooCommerce Is Active:**
* if ( class\_exists( 'WooCommerce' ) ) {
* echo 'WooCommerce is active';
* }

**8. Session Management**

WooCommerce handles sessions with the WC\_Session class.

**Common Methods:**

* **Set Session Variable:**
* WC()->session->set( 'key', 'value' );
* **Get Session Variable:**
* $value = WC()->session->get( 'key' );
* **Unset Session Variable:**
* WC()->session->\_\_unset( 'key' );

**9. REST API**

WooCommerce provides a REST API for external integration.

**Example Endpoints:**

* **Get Products:** GET /wp-json/wc/v3/products
* **Create Order:** POST /wp-json/wc/v3/orders
* **Update Customer:** PUT /wp-json/wc/v3/customers/{id}

**Resources for Deep Diving**

* [WooCommerce Code Reference](https://woocommerce.github.io/code-reference/)
* [WooCommerce REST API Documentation](https://woocommerce.github.io/woocommerce-rest-api-docs/)
* [Official WooCommerce Developer Docs](https://developer.woocommerce.com/)