

TechSavvyGenLtd Cart Management API

A comprehensive RESTful API for managing shopping cart operations in the TechSavvyGenLtd e-commerce platform.

Overview

The Cart Management API provides endpoints for adding, removing, updating, and retrieving shopping cart items. It supports three types of items:

- **Products:** Physical or digital products from the catalog
- **Services:** Professional services offered by the company
- **Custom Services:** Personalized services created for specific users

Base URL

```
/api/cart/
```

Authentication

All API endpoints require user authentication. Users must be logged in with a valid session. Additionally, state-changing operations (POST, PUT, PATCH, DELETE) require CSRF token validation.

Content Type

All requests should use `Content-Type: application/json` for POST bodies. Responses are always in JSON format.

API Endpoints

1. Add Item to Cart

Endpoint: `POST /api/cart/add.php`

Adds an item to the user's shopping cart. If the item already exists, it updates the quantity.

Request Body

```
json
{
  "type": "product|service|custom_service",
  "id": 123,
  "quantity": 2,
  "csrf_token": "your_csrf_token_here"
}
```

Parameters

Parameter	Type	Required	Description
type	string	Yes	Item type: product, service, or custom_service
id	integer	Yes	ID of the item to add
quantity	integer	Yes	Quantity to add (minimum: 1)
csrf_token	string	Yes	CSRF protection token

Response

```
json
{
  "success": true,
  "message": "Item added to cart successfully",
  "data": {
    "cart_item_id": 456,
    "item_type": "product",
    "item_id": 123,
    "item_name": "Sample Product",
    "quantity": 2,
    "price": 29.99,
    "action": "added"
  },
  "cart_count": 5
}
```

Example Usage (JavaScript)

javascript

```
fetch('/api/cart/add.php', {
  method: 'POST',
  headers: {
    'Content-Type': 'application/json',
    'X-Requested-With': 'XMLHttpRequest'
  },
  body: JSON.stringify({
    type: 'product',
    id: 123,
    quantity: 2,
    csrf_token: window.SITE_CONFIG.csrfToken
  })
})
.then(response => response.json())
.then(data => {
  if (data.success) {
    console.log('Item added successfully');
    updateCartCount(data.cart_count);
  } else {
    console.error('Error:', data.message);
  }
});
```

2. Remove Item from Cart

Endpoint: POST|DELETE /api/cart/remove.php

Removes an item from the cart or clears the entire cart.

Request Body (Single Item Removal)

```
json
{
  "cart_item_id": 456,
  "csrf_token": "your_csrf_token_here"
}
```

Request Body (Alternative Identification)

```
json
{
  "item_type": "product",
  "item_id": 123,
  "csrf_token": "your_csrf_token_here"
}
```

Request Body (Clear Entire Cart)

json

```
{
  "clear_cart": true,
  "csrf_token": "your_csrf_token_here"
}
```

Parameters

Parameter	Type	Required	Description
<code>cart_item_id</code>	integer	Conditional	Cart item ID to remove
<code>item_type</code>	string	Conditional	Alternative: item type
<code>item_id</code>	integer	Conditional	Alternative: item ID
<code>clear_cart</code>	boolean	Optional	Set to true to clear entire cart
<code>csrf_token</code>	string	Yes	CSRF protection token

Response

json

```
{
  "success": true,
  "message": "Item removed from cart successfully",
  "data": {
    "removed_item": {
      "cart_item_id": 456,
      "item_type": "product",
      "item_name": "Sample Product",
      "quantity": 2
    }
  },
  "cart_count": 3
}
```

3. Update Cart Item

Endpoint: `(POST|PUT|PATCH /api/cart/update.php)`

Updates the quantity of a cart item. Supports both single item and bulk updates.

Request Body (Single Update)

json

```
{
  "cart_item_id": 456,
  "quantity": 3,
  "csrf_token": "your_csrf_token_here"
}
```

Request Body (Bulk Update)

```
json
{
  "items": [
    {"cart_item_id": 456, "quantity": 3},
    {"cart_item_id": 789, "quantity": 1}
  ],
  "csrf_token": "your_csrf_token_here"
}
```

Parameters

Parameter	Type	Required	Description
cart_item_id	integer	Conditional	Cart item ID (for single update)
quantity	integer	Conditional	New quantity (for single update)
items	array	Conditional	Array of items for bulk update
csrf_token	string	Yes	CSRF protection token

Response

```
json
{
  "success": true,
  "message": "Cart updated successfully",
  "data": {
    "cart_item_id": 456,
    "item_type": "product",
    "item_name": "Sample Product",
    "old_quantity": 2,
    "new_quantity": 3,
    "unit_price": 29.99,
    "item_total": 89.97
  },
  "cart_count": 6
}
```

4. Get Cart Contents

Endpoint: GET /api/cart/get.php

Retrieves cart contents with various formatting options.

Query Parameters

Parameter	Type	Default	Description
<code>format</code>	string	<code>full</code>	Response format: <code>full</code> , <code>summary</code> , or <code>count</code>
<code>details</code>	boolean	<code>false</code>	Include additional item details
<code>totals</code>	boolean	<code>false</code>	Calculate and include cart totals

Examples

Get full cart details:

```
GET /api/cart/get.php?details=true&totals=true
```

Get cart summary:

```
GET /api/cart/get.php?format=summary
```

Get cart count only:

```
GET /api/cart/get.php?format=count
```

Response (Full