

✓ Here's the **complete code** for the dynamic shopping cart with increment, decrement, and remove functionality using **CodeIgniter 3, AJAX, and jQuery**.

✓ 1. Database Structure

You'll need two tables:

products

```
sql
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CREATE TABLE `products` (
  `id` INT AUTO_INCREMENT PRIMARY KEY,
  `name` VARCHAR(100) NOT NULL,
  `price` DECIMAL(10, 2) NOT NULL,
  `description` TEXT NOT NULL
);
```

orders

```
sql
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CREATE TABLE `orders` (
  `id` INT AUTO_INCREMENT PRIMARY KEY,
  `user_name` VARCHAR(100) NOT NULL,
  `email` VARCHAR(100) NOT NULL,
  `contact` VARCHAR(15) NOT NULL,
  `address` TEXT NOT NULL,
  `total_price` DECIMAL(10, 2) NOT NULL,
  `created_at` TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

✓ 2. Routes (config/routes.php)

```
php
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$route['default_controller'] = 'cart';
$route['cart'] = 'cart/index';
$route['cart/add'] = 'cart/add_item';
$route['cart/remove_item'] = 'cart/remove_item';
$route['cart/update_quantity'] = 'cart/update_quantity';
$route['cart/cart_ajax'] = 'cart/cart_ajax';
```

✓ 3. Controller: cart.php

```
php
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```

```

<?php
defined('BASEPATH') OR exit('No direct script access allowed');

class Cart extends CI_Controller {

    public function index() {
        $this->load->view('cart/index');
    }

    // Add item to cart
    public function add_item() {
        $id = $this->input->post('id');
        $name = $this->input->post('name');
        $price = $this->input->post('price');
        $qty = 1;

        $data = [
            'id' => $id,
            'name' => $name,
            'price' => $price,
            'qty' => $qty
        ];

        $this->cart->insert($data);
        echo json_encode(['status' => 'success']);
    }

    // Remove item from cart
    public function remove_item() {
        $rowid = $this->input->post('id');
        $this->cart->remove($rowid);

        $response = [
            'status' => 'success',
            'in_cart' => count($this->cart->contents())
        ];

        echo json_encode($response);
    }

    // Update item quantity
    public function update_quantity() {
        $rowid = $this->input->post('id');
        $quantity = $this->input->post('quantity');

        $data = [
            'rowid' => $rowid,
            'qty' => $quantity
        ];

        $this->cart->update($data);

        $response = [
            'status' => 'success',
            'in_cart' => count($this->cart->contents())
        ];
    }
}

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        echo json_encode($response);
    }

    // Load cart items via AJAX
    public function cart_ajax() {
        $this->load->view('cart/cart_ajax');
    }
}

```

✓ 4. Views

View: cart/index.php

```

html
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<h2>Shopping Cart</h2>

<div id="cart_value_ajax">
    <?php $this->load->view('cart/cart_ajax'); ?>
</div>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<script>
// Remove item
var remove = function(u) {
    $.ajax({
        url: '<?= base_url('cart/remove_item') ?>',
        type: "POST",
        data: { "id": u },
        success: function(data) {
            var result = JSON.parse(data);
            cart_value_ajax();
            $("#cart_number").html(result['in_cart']);
        }
    });
}

// Decrement quantity
var minus = function(u) {
    var qty_minus = $("#quantity" + u).val();
    if (qty_minus > 1) {
        var set_qty = qty_minus - 1;
        $("#quantity" + u).val(set_qty);
        update_quantity(u);
    }
}

// Increment quantity
var pluss = function(u) {
    var qty_plus = parseInt($("#quantity" + u).val());

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        if (qty_plus < 10) {
            var set_qty = qty_plus + 1;
            $("#quantity" + u).val(set_qty);
            update_quantity(u);
        } else {
            alert('You can add a maximum of 10 items per user.');
```

```

    }
}

// Update quantity
var update_quantity = function(u) {
    var qty = $("#quantity" + u).val();
    $.ajax({
        url: '<?= base_url('cart/update_quantity') ?>',
        type: "POST",
        data: { "id": u, "quantity": qty },
        success: function(data) {
            var result = JSON.parse(data);
            cart_value_ajax();
            $("#cart_number").html(result['in_cart']);
        }
    });
}

// Load cart via AJAX
var cart_value_ajax = function() {
    $.ajax({
        url: '<?= base_url('cart/cart_ajax') ?>',
        type: "GET",
        success: function(data) {
            $("#cart_value_ajax").html(data);
        }
    });
}
</script>

```

 **View: cart/cart_ajax.php**

```

php
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<table>
    <thead>
        <tr>
            <th>Item</th>
            <th>Unit Price</th>
            <th>Qty</th>
            <th>Subtotal</th>
            <th>Delete</th>
        </tr>
    </thead>
    <tbody>
        <?php foreach ($this->cart->contents() as $item): ?>
            <tr data-id="<?= $item['rowid'] ?>">
                <td><?= $item['name'] ?></td>
                <td>₹<?= $item['price'] ?></td>
            </tr>
        </?php>
    </tbody>
</table>

```

```
<td>
    <div class="cart-plus-minus">
        <div class="dec qtybutton" onclick="minus('<?=
$item['rowid'] ?>')">-</div>
        <input id="quantity<?= $item['rowid'] ?>" class="cart-
plus-minus-box" type="text" name="qtybutton" value="<?= $item['qty'] ?>"
readonly>
        <div class="inc qtybutton" onclick="pluss('<?=
$item['rowid'] ?>')">+</div>
    </div>
</td>
<td>₹<?= $item['subtotal'] ?></td>
<td>
    <a href="javascript:void(0)" onclick="remove('<?=
$item['rowid'] ?>')"><i class="ti-trash"></i></a>
</td>
</tr>
<?php endforeach; ?>
</tbody>
</table>
```
