

Toggle Confirmation Handler - Complete Documentation

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Enterprise-grade confirmation dialog system for toggle actions (activate/deactivate accounts, enable/disable features, etc.). Framework-agnostic with built-in support for React, Vue, Angular, jQuery, and Vanilla JavaScript.

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Installation

NPM / Yarn



bash

```
npm install @wlandabla/form_validator sweetalert2
# or
yarn add @wlandabla/form_validator sweetalert2
```

Dependencies

- **jQuery** (for legacy browser support)
- **SweetAlert2** (for beautiful modals)

Import



typescript

```
// ES6 Module
import {
  handleToggleConfirmation,
  extractToggleData,
  createToggleEvent
} from '@wlandabla/form_validator';

// CommonJS
const {
  handleToggleConfirmation
} = require('@wlandabla/form_validator');
```

Basic Usage

HTML Setup



html

```
<div class="user-list">
  <!-- Account toggle button -->
  <a href="/admin/users/123/toggle"
    class="btn btn-toggle-account"
    data-action-confirm="Are you sure you want to deactivate this account?"
    data-toggle-enabled="true"
    title="Deactivate Account"
    data-additional='{ "userId": 123, "userName": "john.doe"}'>
    <i class="fa fa-ban"></i> Deactivate
  </a>
</div>
```

JavaScript Usage



typescript

```
import { handleToggleConfirmation } from '@wlandabla/form_validator';
import Swal from 'sweetalert2';

// Handle button click
document.querySelector('.btn-toggle-account').addEventListener('click', async (event) => {
  event.preventDefault();

  const confirmed = await handleToggleConfirmation({
    element: event.currentTarget as HTMLElement,
    eventName: 'account:toggle:confirmed',
    dialogHandler: Swal.fire
  });

  if (confirmed) {
    console.log('User confirmed the action');
  }
});

// Listen for the custom event
document.addEventListener('account:toggle:confirmed', (event: CustomEvent) => {
  console.log('Toggle confirmed:', event.detail);
  // event.detail contains: { data, url_action_confirm, sourceElement, timestamp }
});
```

Why Toggle Handler?

✦ Key Features

- ✓ **Framework-Agnostic** - Works with any JavaScript framework
- ✓ **Type-Safe** - Full TypeScript support with strict typing
- ✓ **Legacy Browser Support** - Uses jQuery for IE8+ compatibility
- ✓ **Beautiful Dialogs** - SweetAlert2 integration for modern UIs
- ✓ **Customizable** - Extensive configuration options
- ✓ **Event-Driven** - Custom events for decoupled architecture
- ✓ **Translation Ready** - Built-in i18n support
- ✓ **Error Resilient** - Comprehensive error handling
- ✓ **Production Ready** - Battle-tested in enterprise applications

🎯 Use Cases

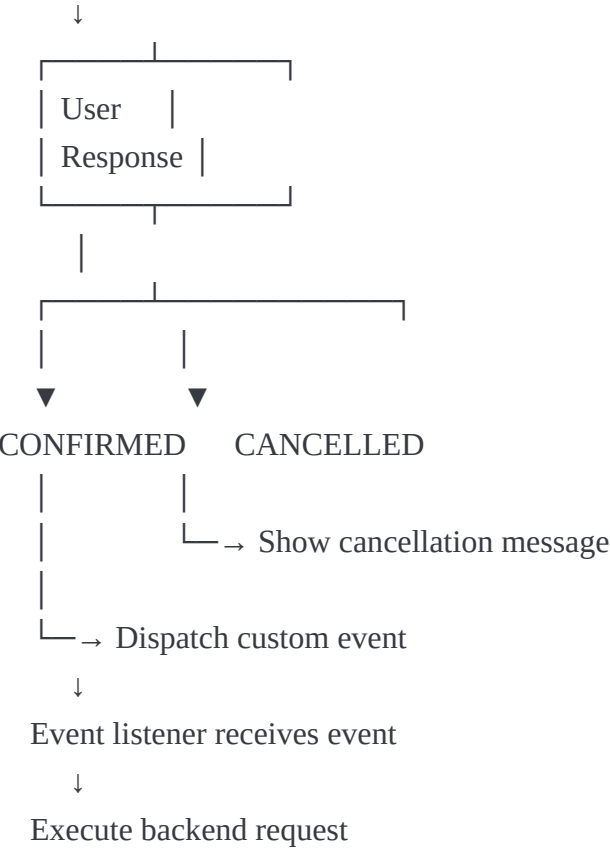
- ✓ Account activation/deactivation
- ✓ Feature enable/disable toggles
- ✓ Permission grants/revokes
- ✓ Status changes (active/inactive)
- ✓ Subscription enable/disable
- ✓ Any action requiring confirmation

How It Works

Process Flow



- 1. User clicks toggle button
- ↓
- 2. handleToggleConfirmation() called
- ↓
- 3. Extract data from DOM attributes
- ↓
- 4. Show confirmation dialog (SweetAlert2)



Data Flow Diagram



HTML Button	
(DOM Element)	
Required Attrs:	
- data-action-	
confirm	
- data-toggle-	
enabled	
- title	
- href	



extractToggleData	
Returns:	
{	
title,	
confirmText,	
toggleEnabled,	
actionUrl,	
additionalData	
}	



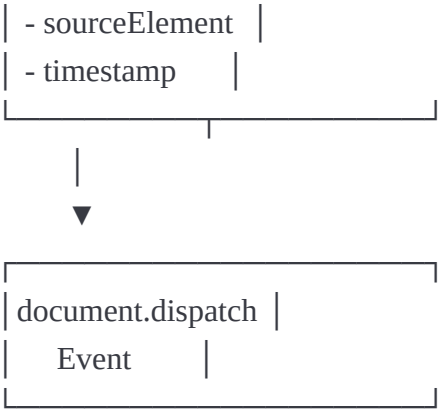
Show Confirmation	
Dialog	
(SweetAlert2)	



Confirmed?



createToggleEvent	
CustomEvent with:	
- data	
- url_action_	
confirm	



HTML Requirements

Required Attributes

Attribute	Type	Description	Example
data-action-confirm	string	Confirmation message	"Are you sure?"
data-toggle-enabled	boolean	Current state	"true" or "false"
title	string	Dialog title	"Deactivate Account"
href or data-url	string	Action URL	"/admin/users/123/toggle"

Optional Attributes

Attribute	Type	Description
data-additional	JSON	Additional data (must be valid JSON)
data-bs-original-title	string	Bootstrap 5 tooltip title (fallback)
data-original-title	string	Older Bootstrap tooltip title (fallback)

Complete HTML Example



html

<!-- Simple example -->

```
<button
  class="btn btn-danger"
  data-action-confirm="Deactivate this user's account?"
  data-toggle-enabled="true"
  title="Deactivate Account"
  data-url="/api/users/123/toggle">
  Deactivate
</button>
```

<!-- Advanced example with additional data -->

```
<a href="/admin/users/456/toggle"
  class="btn-toggle-account"
  data-action-confirm="Are you sure you want to suspend this account? This action can be reversed later."
  data-toggle-enabled="true"
  title="Suspend Account"
  data-additional='{ "userId": 456, "userName": "jane.smith", "userEmail": "jane@example.com"}'>
  <i class="fa fa-user-times"></i> Suspend Account
</a>
```

<!-- With Bootstrap tooltip -->

```
<button
  class="btn btn-warning"
  data-action-confirm="Enable premium features for this user?"
  data-toggle-enabled="false"
  data-bs-toggle="tooltip"
  data-bs-original-title="Enable Premium Features"
  data-url="/api/users/789/enable-premium">
  Enable Premium
</button>
```

API Documentation

extractToggleData()

Extracts and validates toggle data from a DOM element.



typescript

```
function extractToggleData(element: HTMLElement): ExtractedToggleData
```

Parameters:

Parameter	Type	Description
element	HTMLElement	DOM element with toggle attributes

Returns: ExtractedToggleData



typescript

```
interface ExtractedToggleData {
  title: string;
  actionConfirmText: string;
  toggleEnabled: boolean;
  actionUrl: string;
  additionalData: Record<string, unknown>;
}
```

Throws:

- TypeError - If element is null/undefined
- Error - If jQuery is not available
- MissingAttributeError - If required attributes are missing

Example:



typescript

```
const button = document.querySelector('.btn-toggle');
const data = extractToggleData(button);

console.log(data);
// {
//   title: "Deactivate Account",
//   actionConfirmText: "Are you sure?",
//   toggleEnabled: true,
//   actionUrl: "/admin/users/123/toggle",
//   additionalData: { userId: 123 }
// }
```

createToggleEvent()

Creates a custom event with toggle data.



typescript

```
function createToggleEvent(  
  eventName: string,  
  toggleData: ExtractedToggleData,  
  sourceElement: HTMLElement  
): CustomEvent<ToggleEventDetail>
```

Parameters:

Parameter	Type	Description
eventName	string	Custom event name
toggleData	ExtractedToggleData	Extracted toggle data
sourceElement	HTMLElement	Source DOM element

Returns: CustomEvent<ToggleEventDetail>

Example:



typescript

```
const data = extractToggleData(element);  
const event = createToggleEvent('account:toggle', data, element);  
  
// Event detail structure  
console.log(event.detail);  
// {  
//   data: { status: true, userId: 123 },  
//   url_action_confirm: "/admin/users/123/toggle",  
//   sourceElement: <HTMLElement>,  
//   timestamp: "2024-01-15T10:30:00.000Z"  
// }  
  
// Dispatch event  
document.dispatchEvent(event);
```

handleToggleConfirmation()

Main function that handles the entire confirmation workflow.



typescript

```
async function handleToggleConfirmation(  
  params: ToggleConfirmationParams  
)  
: Promise<boolean>
```

Parameters:



typescript

```
interface ToggleConfirmationParams {  
  element: HTMLElement;           // Required  
  eventName: string;              // Required  
  dialogHandler: (options) => Promise<...>; // Required (Swal.fire)  
  translator?: (key: string) => string; // Optional  
  confirmDialogConfig?: Partial<SweetAlertOptions>; // Optional  
  cancelDialogConfig?: Partial<SweetAlertOptions>; // Optional  
  onConfirm?: (data, event) => void | Promise<void>; // Optional  
  onCancel?: (data) => void | Promise<void>;        // Optional  
  onError?: (error) => void;                          // Optional  
}
```

Returns: Promise<boolean> - true if confirmed, false if cancelled

Throws: ToggleConfirmationError - If handling fails and no error handler provided

Example:



typescript

```

const confirmed = await handleToggleConfirmation({
  element: buttonElement,
  eventName: 'account:toggle:confirmed',
  dialogHandler: Swal.fire,

  // Optional: Translation function
  translator: (key) => translations[key],

  // Optional: Custom dialog config
  confirmDialogConfig: {
    confirmButtonColor: '#d33',
    cancelButtonColor: '#3085d6'
  },

  // Optional: Callbacks
  onConfirm: async (data, event) => {
    console.log('Confirmed:', data);
  },

  onCancel: (data) => {
    console.log('Cancelled');
  },

  onError: (error) => {
    console.error('Error:', error);
  }
});

if (confirmed) {
  console.log('Action confirmed');
}

```

handleToggleConfirmationSafe()

Safe version that doesn't throw errors.



typescript

```

async function handleToggleConfirmationSafe(
  params: ToggleConfirmationParams
): Promise<{ success: boolean; confirmed?: boolean; error?: string }>

```

Example:



typescript

```
const result = await handleToggleConfirmationSafe({
  element: buttonElement,
  eventName: 'toggle:confirmed',
  dialogHandler: Swal.fire
});

if (result.success) {
  console.log('Confirmed:', result.confirmed);
} else {
  console.error('Error:', result.error);
}
```

hasRequiredToggleAttributes()

Checks if an element has all required attributes.



typescript

```
function hasRequiredToggleAttributes(element: HTMLElement): boolean
```

Example:



typescript

```
const button = document.querySelector('.btn-toggle');

if (hasRequiredToggleAttributes(button)) {
  // Safe to extract data
  const data = extractToggleData(button);
} else {
  console.error('Missing required attributes');
}
```

Configuration Options

Default Confirmation Dialog



typescript

```
const DEFAULT_CONFIRM_DIALOG_CONFIG = {
  icon: "question",
  position: "top",
  showCancelButton: true,
  animation: true,
  allowOutsideClick: false,
  allowEscapeKey: false,
  background: "#00427E",
  color: "#fff",
  confirmButtonText: "Confirm",
  cancelButtonText: "Cancel",
  showClass: {
    popup: "animate__animated animate__fadeInUp animate__faster"
  },
  hideClass: {
    popup: "animate__animated animate__fadeOutDown animate__faster"
  }
};
```

Default Cancellation Dialog



typescript

```
const DEFAULT_CANCEL_DIALOG_CONFIG = {
  icon: "info",
  position: "top",
  showConfirmButton: false,
  timer: 20000,
  timerProgressBar: true,
  background: "#00427E",
  color: "#fff",
  showCloseButton: true
};
```

Custom Configuration Example



typescript

```
await handleToggleConfirmation({
  element: buttonElement,
  eventName: 'toggle:confirmed',
  dialogHandler: Swal.fire,

  confirmDialogConfig: {
    icon: 'warning',
    background: '#fff',
    color: '#333',
    confirmButtonColor: '#d33',
    cancelButtonColor: '#3085d6',
    confirmButtonText: 'Yes, deactivate!',
    cancelButtonText: 'No, keep it',
    showClass: {
      popup: 'animate__animated animate__bounceIn'
    }
  },

  cancelDialogConfig: {
    icon: 'success',
    title: 'Cancelled',
    text: 'Account remains active',
    timer: 3000
  }
});
```

Framework Integration

Vanilla JavaScript Integration

Basic Setup



javascript

```
import { handleToggleConfirmation } from '@wlindabla/form_validator';
import Swal from 'sweetalert2';
```

```
// Initialize on page load
```

```
document.addEventListener('DOMContentLoaded', () => {
  initToggleHandlers();
  initToggleListener();
});
```

```
function initToggleHandlers() {
  // Use event delegation for dynamic elements
  document.body.addEventListener('click', async (event) => {
    const target = event.target.closest('.btn-toggle-account');
    if (!target) return;

    event.preventDefault();

    await handleToggleConfirmation({
      element: target,
      eventName: 'account:toggle:confirmed',
      dialogHandler: Swal.fire
    });
  });
}
```

```
function initToggleListener() {
  document.addEventListener('account:toggle:confirmed', async (event) => {
    const { data, url_action_confirm } = event.detail;

    try {
      const response = await fetch(url_action_confirm, {
        method: 'POST',
        headers: {
          'Content-Type': 'application/json',
          'X-CSRF-Token': getCsrftoken()
        },
        body: JSON.stringify(data)
      });

      const result = await response.json();

      if (result.success) {
        Swal.fire('Success!', result.message, 'success');
        setTimeout(() => location.reload(), 2000);
      }
    }
  });
}
```



```
    }  
  } catch (error) {  
    console.error("Toggle failed:", error);  
    Swal.fire('Error', 'An error occurred', 'error');  
  }  
});  
}  
  
function getCsrftoken() {  
  return document.querySelector('meta[name="csrf-token"])?content || "  
}
```

Advanced Example with Multiple Toggle Types



javascript

// Multiple toggle types

```
const TOGGLE_EVENTS = {  
  ACCOUNT: 'account:toggle:confirmed',  
  FEATURE: 'feature:toggle:confirmed',  
  SUBSCRIPTION: 'subscription:toggle:confirmed'  
};
```

// Generic toggle handler

```
async function handleToggle(element, eventName) {  
  return await handleToggleConfirmation({  
    element,  
    eventName,  
    dialogHandler: Swal.fire,  
    translator: (key) => window.translations[key] || key,  
    onConfirm: async (data) => {  
      console.log(`${eventName} confirmed:`, data);  
    }  
  });  
}
```

// Initialize handlers for different toggle types

```
document.body.addEventListener('click', async (event) => {  
  const accountToggle = event.target.closest('.btn-toggle-account');  
  const featureToggle = event.target.closest('.btn-toggle-feature');  
  const subscriptionToggle = event.target.closest('.btn-toggle-subscription');  
  
  if (accountToggle) {  
    event.preventDefault();  
    await handleToggle(accountToggle, TOGGLE_EVENTS.ACCOUNT);  
  } else if (featureToggle) {  
    event.preventDefault();  
    await handleToggle(featureToggle, TOGGLE_EVENTS.FEATURE);  
  } else if (subscriptionToggle) {  
    event.preventDefault();  
    await handleToggle(subscriptionToggle, TOGGLE_EVENTS.SUBSCRIPTION);  
  }  
});
```

// Listen to all toggle events

```
Object.values(TOGGLE_EVENTS).forEach(eventName => {  
  document.addEventListener(eventName, handleToggleEvent);  
});
```

```
async function handleToggleEvent(event) {
```

```
const { data, url_action_confirm, sourceElement } = event.detail;

try {
  const response = await fetch(url_action_confirm, {
    method: 'PATCH',
    headers: {
      'Content-Type': 'application/json'
    },
    body: JSON.stringify(data)
  });

  if (response.ok) {
    const result = await response.json();
    updateUI(sourceElement, data.status);
    showNotification('success', result.message);
  }
} catch (error) {
  showNotification('error', 'Operation failed');
}
```

```
function updateUI(element, newStatus) {
  element.setAttribute('data-toggle-enabled', !newStatus);
  element.querySelector('i').classList.toggle('fa-check');
  element.querySelector('i').classList.toggle('fa-ban');
}
```

```
function showNotification(type, message) {
  Swal.fire({
    icon: type,
    title: type === 'success' ? 'Success' : 'Error',
    text: message,
    toast: true,
    position: 'top-end',
    showConfirmButton: false,
    timer: 3000
  });
}
```

jQuery Integration

Basic Setup



javascript

```

import { handleToggleConfirmation } from '@wlandabla/form_validator';
import Swal from 'sweetalert2';

jQuery(document).ready(function($) {
    initToggleHandlers();
    initToggleListener();
});

function initToggleHandlers() {
    // Use jQuery event delegation
    jQuery(document).on('click', '.btn-toggle-account', async function(event) {
        event.preventDefault();

        const $button = jQuery(this);

        await handleToggleConfirmation({
            element: this,
            eventName: 'account:toggle:confirmed',
            dialogHandler: Swal.fire,
            translator: (key) => window.SonataTranslator?.trans(key) || key
        });
    });
}

function initToggleListener() {
    jQuery(document).on('account:toggle:confirmed', async function(event) {
        const detail = event.originalEvent.detail;

        try {
            const response = await jQuery.ajax({
                url: detail.url_action_confirm,
                method: 'POST',
                data: JSON.stringify(detail.data),
                contentType: 'application/json',
                dataType: 'json'
            });

            if (response.success) {
                Swal.fire('Success!', response.message, 'success');

                // Update button state
                const $button = jQuery(detail.sourceElement);
                $button.attr('data-toggle-enabled', !detail.data.status);
            }
        }
    });
}

```

```
        setTimeout(() => location.reload(), 2000);
    }
} catch (xhr) {
    console.error("Toggle failed:", xhr);
    Swal.fire('Error', xhr.responseJSON?.message || 'An error occurred', 'error');
}
});
}
```

jQuery Plugin Wrapper



javascript

// Create jQuery plugin for easy use

```
(function($) {  
    $.fn.toggleConfirmation = function(options) {  
        const settings = $.extend({  
            eventName: 'toggle:confirmed',  
            dialogHandler: Swal.fire,  
            translator: null,  
            onConfirm: null,  
            onCancel: null,  
            onError: null  
        }, options);  
  
        return this.each(function() {  
            $(this).on('click', async function(event) {  
                event.preventDefault();  
  
                await handleToggleConfirmation({  
                    element: this,  
                    eventName: settings.eventName,  
                    dialogHandler: settings.dialogHandler,  
                    translator: settings.translator,  
                    onConfirm: settings.onConfirm,  
                    onCancel: settings.onCancel,  
                    onError: settings.onError  
                });  
            });  
        });  
    };  
})(jQuery);
```

// Usage

```
jQuery(document).ready(function($) {  
    $('.btn-toggle-account').toggleConfirmation({  
        eventName: 'account:toggle:confirmed',  
        translator: (key) => window.SonataTranslator.trans(key),  
        onConfirm: (data) => {  
            console.log('Confirmed:', data);  
        }  
    });  
});
```

// Listen for event

```
$(document).on('account:toggle:confirmed', async function(event) {  
    const detail = event.originalEvent.detail;  
    // Handle the toggle...
```

```
});  
});
```

React Integration

Hook-Based Approach



typescript

// useToggleConfirmation.ts

```
import { useState, useCallback } from 'react';
import { handleToggleConfirmation, ToggleConfirmationParams } from '@wlandbla/form_validator';
import Swal from 'sweetalert2';

export function useToggleConfirmation(eventName: string, options?: Partial<ToggleConfirmationParams>) {
  const [isProcessing, setIsProcessing] = useState(false);

  const confirmToggle = useCallback(async (element: HTMLElement) => {

    try {
      const confirmed = await handleToggleConfirmation({
        element,
        eventName,
        dialogHandler: Swal.fire,
        ...options
      });

      return confirmed;
    } finally {
      setIsProcessing(false);
    }
  }, [eventName, options]);

  return { confirmToggle, isProcessing };
}
```

// Component usage

```
import React, { useEffect } from 'react';
import { useToggleConfirmation } from './hooks/useToggleConfirmation';

interface User {
  id: number;
  name: string;
  enabled: boolean;
}

const UserListItem: React.FC<{ user: User; onToggle: () => void }> = ({ user, onToggle }) => {
  const { confirmToggle, isProcessing } = useToggleConfirmation('account:toggle:confirmed', {
    translator: (key) => t(key) // react-i18next
  });

  const handleClick = async (event: React.MouseEvent<HTMLAnchorElement>) => {
```

```
event.preventDefault();
```

```
const confirmed = await confirmToggle(event.currentTarget);
```

```
if (confirmed) {  
  onToggle();  
}
```

```
};
```

```
return (
```

```
<div className="user-item">
```

```
<span>{user.name}</span>
```

```
<a
```

```
  href={` /api/users/${user.id}/toggle`}
```

```
  className="btn-toggle-account"
```

```
  data-action-confirm={`Toggle account for ${user.name}?`}
```

```
  data-toggle-enabled={user.enabled}
```

```
  title={user.enabled ? 'Deactivate Account' : 'Activate Account'}
```

```
  data-additional={JSON.stringify({ userId: user.id, userName: user.name })}
```

```
  onClick={handleClick}
```

```
  disabled={isProcessing}
```

```
>
```

```
  {user.enabled ? 'Deactivate' : 'Activate'}
```

```
</a>
```

```
</div>
```

```
);
```

```
};
```

```
export default UserListItem;
```

Context Provider Approach



typescript

// ToggleContext.tsx

```
import React, { createContext, useContext, useEffect, useCallback } from 'react';

interface ToggleContextValue {
  listenToToggles: () => void;
}

const ToggleContext = createContext<ToggleContextValue | null>(null);

export const ToggleProvider: React.FC<{ children: React.ReactNode }> = ({ children }) => {
  const listenToToggles = useCallback(() => {
    const handleToggleEvent = async (event: Event) => {
      const customEvent = event as CustomEvent;
      const { data, url_action_confirm } = customEvent.detail;

      try {
        const response = await fetch(url_action_confirm, {
          method: 'POST',
          headers: { 'Content-Type': 'application/json' },
          body: JSON.stringify(data)
        });

        const result = await response.json();

        if (result.success) {
          // Refresh data or update state
          window.location.reload();
        }
      } catch (error) {
        console.error('Toggle failed:', error);
      }
    };

    document.addEventListener('account:toggle:confirmed', handleToggleEvent);

    return () => {
      document.removeEventListener('account:toggle:confirmed', handleToggleEvent);
    };
  }, []);

  useEffect(() => {
    const cleanup = listenToToggles();
    return cleanup;
  }, [listenToToggles]);
```

```
    return (  
      <ToggleContext.Provider value={{ listenToToggles }}>  
        {children}  
      </ToggleContext.Provider>  
    );  
  };  
  
export const useToggle = () => {  
  const context = useContext(ToggleContext);  
  if (!context) {  
    throw new Error('useToggle must be used within ToggleProvider');  
  }  
  return context;  
};
```

// App.tsx

```
import { ToggleProvider } from './contexts/ToggleContext';
```

```
function App() {  
  return (  
    <ToggleProvider>  
      <UserList />  
    </ToggleProvider>  
  );  
}
```

Vue.js Integration

Composition API



vue

```

<!-- useToggleConfirmation.ts -->
<script setup lang="ts">
import { ref } from 'vue';
import { handleToggleConfirmation } from '@wlindabla/form_validator';
import Swal from 'sweetalert2';

export function useToggleConfirmation(eventName: string) {
  const isProcessing = ref(false);

  const confirmToggle = async (element: HTMLElement) => {
    isProcessing.value = true;

    try {
      const confirmed = await handleToggleConfirmation({
        element,
        eventName,
        dialogHandler: Swal.fire
      });

      return confirmed;
    } finally {
      isProcessing.value = false;
    }
  };

  return {
    confirmToggle,
    isProcessing
  };
}
</script>

```

```

<!-- UserListItem.vue -->
<template>
<div class="user-item">
  <span>{{ user.name }}</span>
  <a
    :href="`/api/users/${user.id}/toggle`"
    class="btn-toggle-account"
    :data-action-confirm="`Toggle account for ${user.name}?`"
    :data-toggle-enabled="user.enabled"
    :title="user.enabled ? 'Deactivate Account' : 'Activate Account'"
    :data-additional="JSON.stringify({ userId: user.id })"
    @click.prevent="handleToggle"
  >

```

```

      :disabled="isProcessing"
    >
      {{ user.enabled ? 'Deactivate' : 'Activate' }}
    </a>
  </div>
</template>

<script setup lang="ts">
import { useToggleConfirmation } from '@composables/useToggleConfirmation';

interface User {
  id: number;
  name: string;
  enabled: boolean;
}

const props = defineProps<{
  user: User;
}>();

const emit = defineEmits<{
  toggle: [];
}>();

const { confirmToggle, isProcessing } = useToggleConfirmation('account:toggle:confirmed');

const handleToggle = async (event: Event) => {
  const confirmed = await confirmToggle(event.currentTarget as HTMLElement);

  if (confirmed) {
    emit('toggle');
  }
};
</script>

<style scoped>
.user-item {
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 1rem;
  border-bottom: 1px solid #eee;

```

```
}  
</style>
```

Global Event Listener Plugin



typescript

```
// plugins/toggleListener.ts
```

```
import type { App } from 'vue';
```

```
export default {
```

```
  install(app: App) {
```

```
    // Global toggle event listener
```

```
    const handleToggleEvent = async (event: Event) => {
```

```
      const customEvent = event as CustomEvent;
```

```
      const { data, url_action_confirm } = customEvent.detail;
```

```
      try {
```

```
        const response = await fetch(url_action_confirm, {
```

```
          method: 'POST',
```

```
          headers: { 'Content-Type': 'application/json' },
```

```
          body: JSON.stringify(data)
```

```
        });
```

```
        const result = await response.json();
```

```
        if (result.success) {
```

```
          // Emit global event for components to react
```

```
          app.config.globalProperties.$emitter?.emit('toggle:success', result);
```

```
        }
```

```
      } catch (error) {
```

```
        console.error('Toggle failed:', error);
```

```
        app.config.globalProperties.$emitter?.emit('toggle:error', error);
```

```
      }
```

```
    };
```

```
    // Register listener on mount
```

```
    document.addEventListener('account:toggle:confirmed', handleToggleEvent);
```

```
    // Provide cleanup method
```

```
    app.provide('cleanupToggleListener', () => {
```

```
      document.removeEventListener('account:toggle:confirmed', handleToggleEvent);
```

```
    });
```

```
  }
```

```
};
```

```
// main.ts
```

```
import { createApp } from 'vue';
```

```
import App from './App.vue';
```

```
import toggleListener from './plugins/toggleListener';
```



```
const app = createApp(App);  
app.use(toggleListener);  
app.mount('#app');
```

Angular Integration

Service-Based Approach



typescript

```
// toggle-confirmation.service.ts
```

```
import { Injectable } from '@angular/core';
import { handleToggleConfirmation, ToggleConfirmationParams } from '@wlandbla/form_validator';
import Swal from 'sweetalert2';
import { BehaviorSubject, Observable } from 'rxjs';
```

```
@Injectable({
  providedIn: 'root'
})
export class ToggleConfirmationService {
  private processingSubject = new BehaviorSubject<boolean>(false);
  public isProcessing$: Observable<boolean> = this.processingSubject.asObservable();

  async confirmToggle(
    element: HTMLElement,
    eventName: string,
    options?: Partial<ToggleConfirmationParams>
  ): Promise<boolean> {
    this.processingSubject.next(true);

    try {
      const confirmed = await handleToggleConfirmation({
        element,
        eventName,
        dialogHandler: Swal.fire,
        ...options
      });

      return confirmed;
    } finally {
      this.processingSubject.next(false);
    }
  }
}
```

```
// toggle-listener.service.ts
```

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Subject } from 'rxjs';
```

```
@Injectable({
  providedIn: 'root'
})
export class ToggleListenerService {
```

```
private toggleSuccessSubject = new Subject<any>();
private toggleErrorSubject = new Subject<any>();

public toggleSuccess$ = this.toggleSuccessSubject.asObservable();
public toggleError$ = this.toggleErrorSubject.asObservable();
```

```
constructor(private http: HttpClient) {
  this.initListener();
}
```

```
private initListener(): void {
  document.addEventListener('account:toggle:confirmed', async (event: Event) => {
    const customEvent = event as CustomEvent;
    const { data, url_action_confirm } = customEvent.detail;

    try {
      const result = await this.http.post(url_action_confirm, data).toPromise();
      this.toggleSuccessSubject.next(result);
    } catch (error) {
      this.toggleErrorSubject.next(error);
    }
  });
}
```

// user-list.component.ts

```
import { Component, OnInit, OnDestroy } from '@angular/core';
import { ToggleConfirmationService } from '../services/toggle-confirmation.service';
import { ToggleListenerService } from '../services/toggle-listener.service';
import { Subject } from 'rxjs';
import { takeUntil } from 'rxjs/operators';
```

```
interface User {
  id: number;
  name: string;
  enabled: boolean;
}
```

```
@Component({
  selector: 'app-user-list',
  template: `
    <div class="user-list">
      <div *ngFor="let user of users" class="user-item">
        <span>{{ user.name }}</span>
```

```

    <a
      [href]="/api/users/" + user.id + '/toggle'
      class="btn-toggle-account"
      [attr.data-action-confirm]="Toggle account for ' + user.name + '"
      [attr.data-toggle-enabled]="user.enabled"
      [attr.title]="user.enabled ? 'Deactivate Account' : 'Activate Account'"
      [attr.data-additional]="getAdditionalData(user)"
      (click)="handleToggle($event, user)"
      [disabled]="isProcessing$ | async"
    >
      {{ user.enabled ? 'Deactivate' : 'Activate' }}
    </a>
  </div>
</div>
,
})

export class UserListComponent implements OnInit, OnDestroy {
  users: User[] = [];
  isProcessing$ = this.toggleConfirmationService.isProcessing$;
  private destroy$ = new Subject<void>();

  constructor(
    private toggleConfirmationService: ToggleConfirmationService,
    private toggleListenerService: ToggleListenerService
  ) {}

  ngOnInit(): void {
    // Listen for toggle success
    this.toggleListenerService.toggleSuccess$
      .pipe(takeUntil(this.destroy$))
      .subscribe(result => {
        console.log('Toggle success:', result);
        this.loadUsers(); // Refresh list
      });

    // Listen for toggle error
    this.toggleListenerService.toggleError$
      .pipe(takeUntil(this.destroy$))
      .subscribe(error => {
        console.error('Toggle error:', error);
      });
  }

  async handleToggle(event: Event, user: User): Promise<void> {

```

```

event.preventDefault();

const confirmed = await this.toggleConfirmationService.confirmToggle(
  event.currentTarget as HTMLElement,
  'account:toggle:confirmed'
);

if (confirmed) {
  console.log('User confirmed toggle for:', user.name);
}
}

getAdditionalData(user: User): string {
  return JSON.stringify({ userId: user.id, userName: user.name });
}

loadUsers(): void {
  // Load users from API
}

ngOnDestroy(): void {
  this.destroy$.next();
  this.destroy$.complete();
}
}

```

Directive Approach



typescript

```
// toggle-confirmation.directive.ts

import { Directive, ElementRef, HostListener, Input, Output, EventEmitter } from '@angular/core';
import { ToggleConfirmationService } from '../services/toggle-confirmation.service';

@Directive({
  selector: '[appToggleConfirmation]'
})
export class ToggleConfirmationDirective {
  @Input() eventName = 'account:toggle:confirmed';
  @Output() confirmed = new EventEmitter<void>();
  @Output() cancelled = new EventEmitter<void>();

  constructor(
    private el: ElementRef<HTMLElement>,
    private toggleConfirmationService: ToggleConfirmationService
  ) {}

  @HostListener('click', ['$event'])
  async onClick(event: Event): Promise<void> {
    event.preventDefault();

    const confirmed = await this.toggleConfirmationService.confirmToggle(
      this.el.nativeElement,
      this.eventName
    );

    if (confirmed) {
      this.confirmed.emit();
    } else {
      this.cancelled.emit();
    }
  }
}

// Usage in template
/*
<a appToggleConfirmation
  [eventName]="account:toggle:confirmed"
  (confirmed)="onToggleConfirmed()"
  (cancelled)="onToggleCancelled()"
  href="/api/users/123/toggle"
  data-action-confirm="Toggle this account?"
  data-toggle-enabled="true"
  title="Toggle Account">

```

Toggle

*/

Custom Events

Event Detail Structure



typescript

```
interface ToggleEventDetail {
  data: {
    status: boolean;      // New toggle state
    [key: string]: unknown; // Additional data from data-additional attribute
  };
  url_action_confirm: string; // Action URL
  sourceElement: HTMLElement; // Source DOM element
  timestamp: string;         // ISO 8601 timestamp
}
```

Listening to Events



typescript

// Basic listener

```
document.addEventListener('account:toggle:confirmed', (event: CustomEvent) => {  
    console.log('Event detail:', event.detail);  
    // {  
    //   data: { status: false, userId: 123, userName: "john.doe" },  
    //   url_action_confirm: "/admin/users/123/toggle",  
    //   sourceElement: <HTMLElement>,  
    //   timestamp: "2024-01-15T10:30:00.000Z"  
    // }  
});
```

// With TypeScript typing

```
document.addEventListener('account:toggle:confirmed', (event: Event) => {  
    const customEvent = event as CustomEvent<ToggleEventDetail>;  
    const { data, url_action_confirm, sourceElement, timestamp } = customEvent.detail;  
  
    console.log('Status:', data.status);  
    console.log('URL:', url_action_confirm);  
    console.log('Timestamp:', timestamp);  
});
```

Multiple Event Types



typescript

// Define event constants

```
const TOGGLE_EVENTS = {  
  ACCOUNT: 'account:toggle:confirmed',  
  FEATURE: 'feature:toggle:confirmed',  
  PERMISSION: 'permission:toggle:confirmed'  
} as const;
```

// Generic listener

```
function createToggleListener(eventName: string, handler: (detail: ToggleEventDetail) => void) {  
  document.addEventListener(eventName, (event: Event) => {  
    const customEvent = event as CustomEvent<ToggleEventDetail>;  
    handler(customEvent.detail);  
  });  
}
```

// Register listeners

```
createToggleListener(TOGGLE_EVENTS.ACCOUNT, async (detail) => {  
  await handleAccountToggle(detail);  
});  
  
createToggleListener(TOGGLE_EVENTS.FEATURE, async (detail) => {  
  await handleFeatureToggle(detail);  
});  
  
createToggleListener(TOGGLE_EVENTS.PERMISSION, async (detail) => {  
  await handlePermissionToggle(detail);  
});
```

Error Handling

Error Classes

MissingAttributeError

Thrown when required DOM attributes are missing.



typescript

```

try {
  const data = extractToggleData(element);
} catch (error) {
  if (error instanceof MissingAttributeError) {
    console.error(`Missing attribute: ${error.attribute}`);
    console.error(`Element HTML: ${error.elementHTML}`);

    // Show user-friendly message
    alert("This button is not properly configured. Please contact support.");
  }
}

```

ToggleConfirmationError

Thrown when confirmation handling fails.



typescript

```

try {
  await handleToggleConfirmation({
    element: buttonElement,
    eventName: 'toggle:confirmed',
    dialogHandler: Swal.fire
  });
} catch (error) {
  if (error instanceof ToggleConfirmationError) {
    console.error('Confirmation failed:', error.message);
    if (error.cause) {
      console.error('Caused by:', error.cause);
    }
  }
}

```

Comprehensive Error Handling



typescript

```
async function safeToggleConfirmation(element: HTMLElement, eventName: string) {
  try {
    // Validate element first
    if (!hasRequiredToggleAttributes(element)) {
      throw new Error('Element missing required attributes');
    }

    // Attempt confirmation
    const confirmed = await handleToggleConfirmation({
      element,
      eventName,
      dialogHandler: Swal.fire,

      onError: (error) => {
        // Log error for debugging
        console.error('Toggle confirmation error:', error);

        // Show user-friendly message
        Swal.fire({
          icon: 'error',
          title: 'Configuration Error',
          text: 'This action cannot be performed. Please contact support.',
          footer: `Error: ${error.message}`
        });
      }
    });

    return confirmed;
  } catch (error) {
    if (error instanceof MissingAttributeError) {
      console.error('Missing attribute:', error.attribute);
      alert(`Button configuration error: Missing ${error.attribute} attribute`);
    } else if (error instanceof ToggleConfirmationError) {
      console.error('Toggle confirmation failed:', error.message);
      alert('Failed to show confirmation dialog. Please try again.');
```

```
    } else {
      console.error('Unexpected error:', error);
      alert('An unexpected error occurred. Please refresh the page.');
```

```
    }

    return false;
  }
}
```

```
}  
}
```

Best Practices

1. Always Use Event Delegation



typescript

```
// ✓ Good - Handles dynamic elements  
document.body.addEventListener('click', async (event) => {  
  const target = event.target.closest('.btn-toggle-account');  
  if (target) {  
    event.preventDefault();  
    await handleToggleConfirmation({...});  
  }  
});
```

```
// ✗ Bad - Won't work with dynamic elements  
document.querySelectorAll('.btn-toggle-account').forEach(button => {  
  button.addEventListener('click', async (event) => {  
    // This won't work for dynamically added buttons  
  });  
});
```

2. Validate Attributes Before Use



typescript

```
// ✓ Good - Check first  
if (hasRequiredToggleAttributes(element)) {  
  await handleToggleConfirmation({...});  
} else {  
  console.error('Invalid toggle button configuration');  
}  
  
// ✗ Bad - Let it throw  
await handleToggleConfirmation({...}); // May throw MissingAttributeError
```

3. Use Typed Event Listeners



typescript

```
// ✓ Good - Typed event detail
document.addEventListener('account:toggle:confirmed', (event: Event) => {
  const customEvent = event as CustomEvent<ToggleEventDetail>;
  const { data, url_action_confirm } = customEvent.detail;
  // TypeScript knows the structure
});

// ✗ Bad - Untyped
document.addEventListener('account:toggle:confirmed', (event: any) => {
  const detail = event.detail; // No type safety
});
```

4. Provide Translation Function



typescript

```
// ✓ Good - User sees localized messages
await handleToggleConfirmation({
  element,
  eventName: 'toggle:confirmed',
  dialogHandler: Swal.fire,
  translator: (key) => translations[key] || key
});

// ✗ Bad - English only
await handleToggleConfirmation({
  element,
  eventName: 'toggle:confirmed',
  dialogHandler: Swal.fire
  // No translator - buttons show "Confirm"/"Cancel" in English only
});
```

5. Handle Callbacks Appropriately



typescript

// ✓ Good - Use callbacks for side effects

```
await handleToggleConfirmation({
  element,
  eventName: 'toggle:confirmed',
  dialogHandler: Swal.fire,

  onConfirm: async (data) => {
    // Track analytics
    analytics.track('account_toggle_confirmed', data);

    // Log for debugging
    console.log('User confirmed:', data);
  },

  onCancel: () => {
    analytics.track('account_toggle_cancelled');
  },

  onError: (error) => {
    // Send to error tracking service
    errorTracker.captureException(error);
  }
});
```

TypeScript Types

Core Types



typescript

// Extracted toggle data

```
interface ExtractedToggleData {  
  title: string;  
  actionConfirmText: string;  
  toggleEnabled: boolean;  
  actionUrl: string;  
  additionalData: Record<string, unknown>;  
}
```

// Toggle confirmation parameters

```
interface ToggleConfirmationParams {  
  element: HTMLElement;  
  eventName: string;  
  dialogHandler: (options: SweetAlertOptions) => Promise<SweetAlertResult>;  
  translator?: ((key: string) => string) | null;  
  confirmDialogConfig?: Partial<SweetAlertOptions>;  
  cancelDialogConfig?: Partial<SweetAlertOptions>;  
  onConfirm?: ((data: ExtractedToggleData, event: CustomEvent) => void | Promise<void>) | null;  
  onCancel?: ((data: ExtractedToggleData) => void | Promise<void>) | null;  
  onError?: ((error: Error) => void) | null;  
}
```

// Custom event detail

```
interface ToggleEventDetail {  
  data: {  
    status: boolean;  
    [key: string]: unknown;  
  };  
  url_action_confirm: string;  
  sourceElement: HTMLElement;  
  timestamp: string;  
}
```

Troubleshooting

Issue: "jQuery must be globally available"

Problem: jQuery is not loaded or not available as `window.jQuery`

Solution:



html

```
<!-- Load jQuery before your script -->
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script src="your-app.js"></script>
```

Issue: MissingAttributeError thrown

Problem: Required attributes missing from DOM element

Solution:



html

```
<!-- Ensure all required attributes are present -->
<button
  data-action-confirm="Confirmation message" ✓
  data-toggle-enabled="true" ✓
  title="Button title" ✓
  data-url="/api/toggle" ✓
>
  Toggle
</button>
```

Issue: Event not firing

Problem: Event listener not registered or wrong event name

Solution:



typescript

```
// Make sure event name matches
await handleToggleConfirmation({
  eventName: 'account:toggle:confirmed' // Must match
});

document.addEventListener('account:toggle:confirmed', ...); // Same name
```

Issue: SweetAlert2 not styled

Problem: SweetAlert2 CSS not loaded

Solution:



html

```
<!-- Load SweetAlert2 CSS -->
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/sweetalert2@11/dist/sweetalert2.min.css">
```

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Package: @wlindabla/form_validator

Quick Reference



typescript

// Import

```
import { handleToggleConfirmation } from '@wlandabla/form_validator';  
import Swal from 'sweetalert2';
```

// HTML

```
<button  
  data-action-confirm="Confirmation message"  
  data-toggle-enabled="true"  
  title="Button Title"  
  data-url="/api/toggle">  
  Toggle  
</button>
```

// Handle click

```
button.addEventListener('click', async (e) => {  
  e.preventDefault();  
  await handleToggleConfirmation({  
    element: e.currentTarget,  
    eventName: 'toggle:confirmed',  
    dialogHandler: Swal.fire  
  });  
});
```

// Listen to event

```
document.addEventListener('toggle:confirmed', (e) => {  
  const { data, url_action_confirm } = e.detail;  
  // Execute HTTP request  
});
```

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