



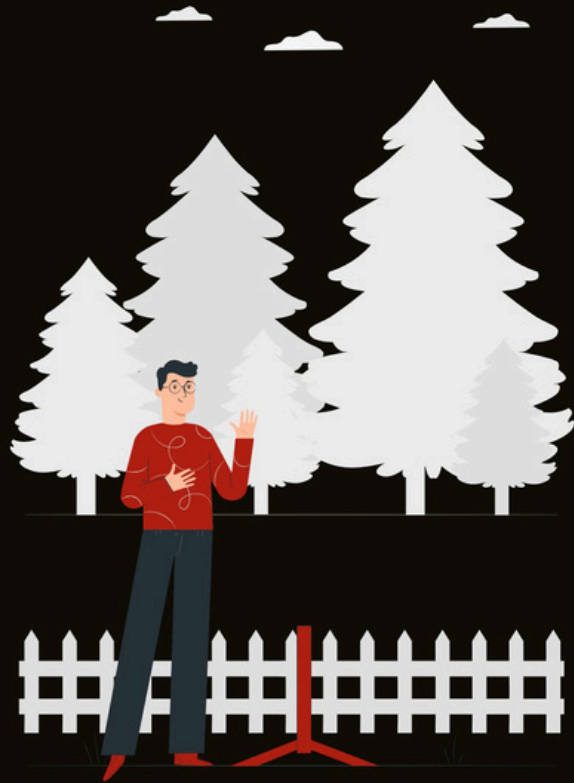
# Ext JS Event Handling

- This presentation delves into the intricacies of Ext JS event handling, providing developers with comprehensive strategies to manage events efficiently, thereby enhancing application performance and user experience
- Ext JS Event System: Ext JS provides a powerful event-handling system that allows components to respond to user interactions and system events.
- Event Registration: Use `.on()` to attach event listeners and `.un()` to remove them from components.
- Observable Pattern: Classes in Ext JS extend `Ext.util.Observable`, enabling event-driven programming.



# Presented To

Sharath Kumar



# Presented By

**Sushant Kumar Kapri**

**Satyam Nayak**

**Anunit Raj**

**Rehan Rubin Yusuf Khan**

**Sohaib Raza**





EVENT HANDLING

## Ext JS Event Handling

Relay Events: Allows one component to listen and re-fire another component's events.

Best Practices: Always clean up event listeners to prevent memory leaks and improve application performance.

# Understanding Events in Ext JS

## Key Concepts and Definitions

### What are Events?

Events are occurrences that take place in the browser, vital for user interactions.

1

### Event-driven Architecture

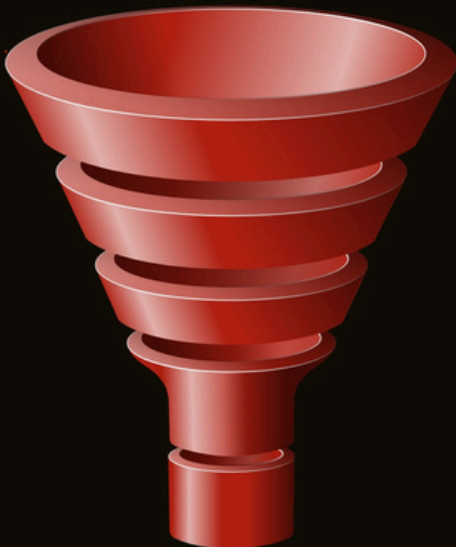
An architecture model where the application responds to events dynamically.

3

### Event Propagation

Understanding how events bubble up or trickle down through the DOM is essential.

5



### Importance of Events in Ext JS

Events facilitate application behavior and user engagement through interactions.

2

### Types of Events

Includes clicks, keyboard inputs, and mouse movements, crucial for application interactions.

4

# Understanding Event Listeners

Key Concepts and Examples

## Definition of Event Listeners

Event listeners are functions that trigger actions in response to specific events.

## Purpose of Event Listeners

They define how applications react when certain events occur, improving interactivity.

## Example Usage

For instance, using 'addEventListener' for click events to execute functions.

## DOM Elements Attachment

Event listeners can be attached to various DOM elements, enhancing user interaction.

## Separation of Concerns

They allow developers to keep event logic distinct from the main application code.

# Adding Event Listeners in Ext JS

Effective Techniques for Event Handling



1

## Using the `on` method

You can add event listeners using the `on` method. Example: `Ext.get('myElement').on('click', function() { console.log("Element clicked"); });`

2

## Component Configuration

Event listeners can also be added through component configuration. Example: `Ext.create('Ext.button.Button', { text: 'Click Me', handler: function() { alert('Button clicked'); } });`

3

## Using Animations

Enhance user feedback with animations when events are triggered, improving user experience.

# Understanding the Event Object in JavaScript

## Key Attributes and Functions

### Event Object Creation

An event object is generated when an event occurs, encapsulating event details.

### Current Target

The 'currentTarget' property points to the element with the event listener attached.

### Type Attribute

The 'type' property indicates the event type, such as 'click'.

### Prevent Default Action

The 'preventDefault()' method stops the default behavior of the event.

### Target Element

The 'target' property identifies the element that triggered the event.

### Example Usage

Example code shows how to access event properties in a click event.



# Enhancing User Experience with Animation

Using animation to enhance user interactions effectively



## Animation improves interaction

Animations can significantly enhance user interaction by providing visual feedback.



## Visual appeal

Creates a visually appealing experience that attracts users' attention.



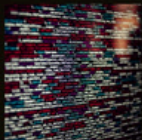
## Immediate feedback

Provides immediate feedback to user actions, making the interface intuitive.



## Increased engagement

Increases engagement and retention, encouraging users to stay longer.



## Example of animation

Example code to highlight an element upon click enhances interactivity.

# Handling Click Events in JavaScript

A Real-World Example

## ■ Scenario Overview

Updating a message when a button is clicked enhances user interaction.

---

## ■ Code Implementation

The provided JavaScript code creates a button with a click event handler.

---

## ■ Alert Message

Upon clicking, an alert displays the message 'Button has been clicked'.

---

## ■ User Experience Improvement

Using animations like fade-in or slide effects can enhance the visual appeal.

---

# Best Practices for Event Handling

## Key Practices for Event Handlers

■ **2.02K** Keep it Simple

■ **2.02K** Use  
Namespaces

■ **2.02K** Remove  
Listeners When  
Not Needed

■ **2.02K** Debounce or  
Throttle Events

■ **2.02K** Conclusion

### High-quality Design

Make your presentations stand out, by letting Presentations.AI do the design work for you - in seconds.

### Amazing Templates

Save time and effort with ready-made designs that are fully customisable.

### Easy Collaboration

Prepare for the unexpected and delight your audience with a seamless presentation that is always right on time.

### Works Everywhere

Powerful collaboration tools that help you create, organise, review and publish your content to any screen.

# Summary of Ext JS Event Handling

Essential Insights for Effective Ext JS  
Applications

## 1 Vital Role of Events

Events are crucial in enabling user interactions within Ext JS applications, making them responsive.

---

## 2 Understanding Event Types

Grasping the various event types alongside the event object is fundamental for effective programming.

---

## 3 Managing Event Listeners

Efficiently adding and managing event listeners is key to optimizing application performance.

---

## 4 Enhancing User Experience

Utilizing animations can significantly improve the overall user experience in applications.

---

## 5 Best Practices in Coding

Adhering to best practices fosters clean, efficient, and maintainable code throughout development.

# Thank You

