# **Day 18**

# **Understanding Events and Event Handling in JavaScript**

Events and event handling are crucial aspects of creating interactive web applications. They allow you to respond to user actions and other occurrences on a webpage, such as clicks, key presses, and page loading.

## 1. Events:

- **Purpose:** Events represent actions or occurrences that happen in the browser, often triggered by user interactions or other browser actions. Examples include mouse clicks, keyboard presses, and page load events.
- **Types:** Events can be categorized into various types, such as user interactions (e.g., mouse clicks, form submissions), and system events (e.g., page load, network requests).

## 2. Event Listeners:

- **Purpose:** Event listeners are functions that are set up to execute when a specific event occurs on a particular element. They allow you to define what should happen when an event is triggered.
- **Usage**: You attach an event listener to an HTML element to monitor for a specific type of event. When the event occurs, the associated function (event handler) is executed, allowing you to respond to the event.

#### **Common Events**

#### 1. Click Event:

• **Purpose**: Triggered when a user clicks on an element, such as a button or link. It is commonly used to handle user interactions like submitting forms or navigating between pages.

### 2. Mouseover Event:

• **Purpose:** Occurs when the mouse pointer hovers over an element. It is often used for creating interactive effects, such as showing tooltips or changing element styles when a user moves the cursor over an element.

# 3. Keydown Event:

• **Purpose:** Fired when a user presses a key on the keyboard. This event is useful for implementing keyboard shortcuts or responding to user input in form fields.

#### 4. Load Event:

•	<b>Purpose:</b> Triggered when the browser has fully loaded a webpage or specific elements like images and scripts. It is commonly used to execute code that depends on the complete
	loading of a page or resources.